EZAutomation.net

EZ 123 BY JVC

EZ AS 1-2-3

Innovate'n'Save™

Unique Operator Interface and PLC Products



Incredible I/O

Training Video, PDF Manual ...

TouchPLC with Flexible Plug-in I/O

Remote Control over Internet/Modem

Made in America

with U.S. and Foreign Content

1-877-774-EASY

AVG Automation | AC Autotech Controls | UTICOR | EZAutomation

Message from the President/CEO

"Unique and Innovative American Products with Twice the Features at half the Cost"

September, 2008



EZ Remote Monitoring and Control

First, I would like to take this opportunity to thank all of you, literally thousands of you who have made it possible for **EZAutomation to become a viable alternative to Automationdirect.com, as a provider of low cost high quality automation products.**

Since our launch in 2005, we have significantly enhanced our product offering. We have also introduced a number of new innovative features to the entire EZ family of products. To name just a few, EZSeries Touchpanels are now available with a high bright 3.5" TFT display at an incredible price of $299 and EZPLC Jr. at $69 has been introduced at less than the price of a smart relay. The EZPLC family now has a 250 KHz PWM I/O module as well as a plug-in program storage module.

Our focus in the last three years has been to offer our customers those features that reduce the total cost of ownership, from not only a very attractive initial purchase price, but also on going operational costs. EZSeries Touchpanels now allow the customer to remotely monitor and control the production process. EZ Remote Monitoring and Control or EZRMC, is a uniquely innovative new feature in our dedicated as well as CE based touchpanels, that will save our customers unnecessary field trips or simply save having to walk over to the plant floor to change set points or update programs. Our timing is just about perfect as all Americans are becoming conscious of the rising costs of transportation.

We will continue to innovate and thus break many price barriers even while manufacturing the products in the United States of America. It is our innovation in design as well as manufacturing that allows us to offer a PLC which has better features than ADC's DL205 at less than the price of a DL06.

Going forward, **you will see a lot of "Innovate'n'Save", our campaign for not only EZAutomation for all American indsutry.**

As you would also notice, we have spent a significant amount of energy in the last one year in updating our website to give you more information about our products, such as product videos, software tutorials to show how to apply them, programming examples, and also detailed competitive analysis.

Once again, I would like to thank all of our customers to give us the opportunity to serve you. We are committed to continuously improve in all facets of our business, from engineering, design, production, quality, customer service to technical support, and very much seek your feedback. Please do not hesitate in writing your suggestions directly to me at Shalabh@avg.net

Thank you,
Shalli Kumar
President/CEO



Innovate'n'Save™

The American Alternative .. *Innovate'n'Save™*

Highest Overall Value Touchpanels that

Save you $$ from Day 1 to End of Life!

Touchpanels with SCADA Features starting at $199

See page 3-20

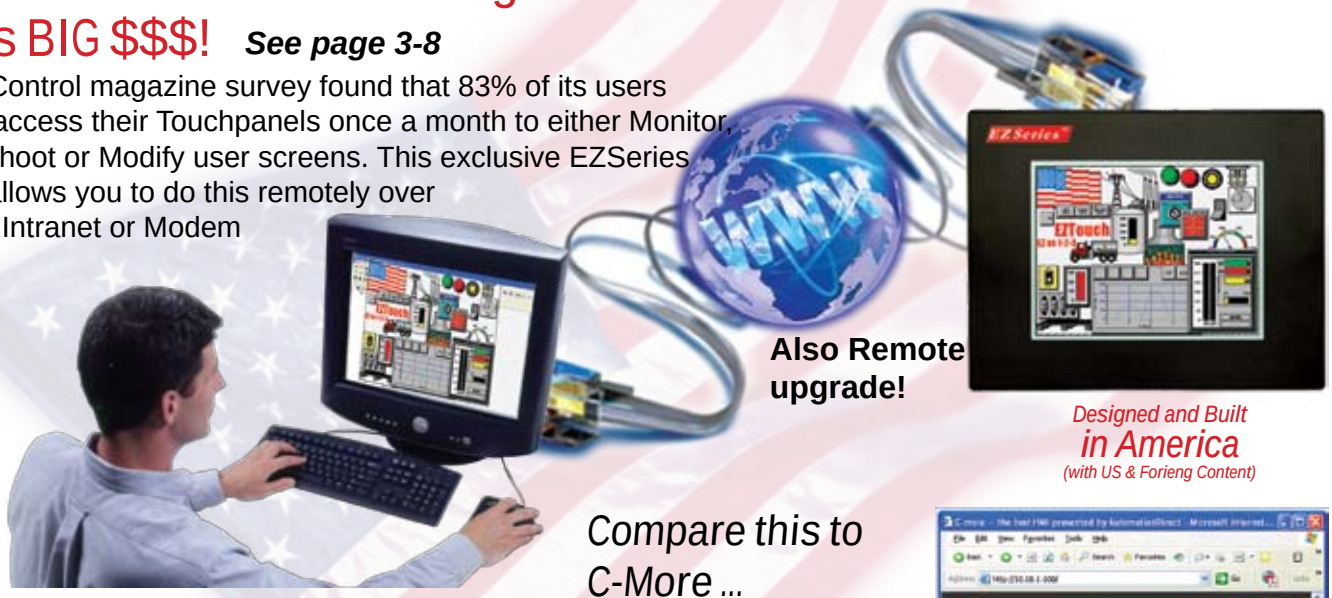


4" Mono | 4" TFT | 6" WOB | 6" Mono | 6" STN | 6" TFT | 8" TFT | 10" TFT | 15" TFT

Exclusive Remote Monitoring and Control Saves BIG $$$!

See page 3-8

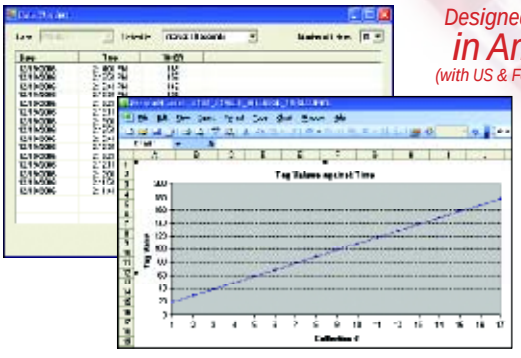
Recent Control magazine survey found that 83% of its users need to access their Touchpanels once a month to either Monitor, Troubleshoot or Modify user screens. This exclusive EZSeries feature allows you to do this remotely over Internet, Intranet or Modem



Also Remote upgrade!

Designed and Built in America
(with US & Forieng Content)

EZSeries Data Acquisition



Designed and Built in America
(with US & Forieng Content)



See page 3-9

EZSeries Touchpanels give you the capability of storing upto 2GB of data in ".CSV" file right inside the panel. This hot plug-in SD card can also be used as a buffer memory for your Mainframe computer. You can chart any variables in your Touchpanel and simple open in Excel.

Compare this to C-More ...

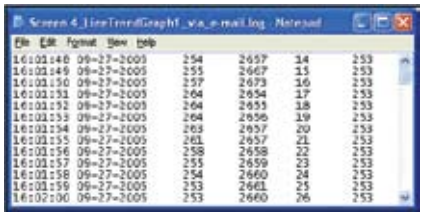
C-More can send frozen screen shots at pre-determined events on a webpage. NO real-time monitoring or control, NO modem capability



Made in China

Compare this to C-More ...

C-More collects data in a notepad format requiring external software manipulation to view meaningful data



Innovate'n'Save™

The American Alternative .. *Innovate'n'Save™*

EZPLC™ DL205 Capability at the Price of DL06!

HIGH SPEED COUNTER
EZIO-HSM1 8 pt. I/O Modules starting at $99, for all Models

DC INPUT MODULE
EZIO-8DCI 8 pt. Analog I/O Modules starting at $22, for all Models

DC INPUT MODULE
EZIO-8DCI Plug-in Program Storage Module for $22, for all Models

DC OUTPUT MODULE
Plug-in Program Storage Module for $22, for all Models



See page 5-29 also

COMBO ANALOG MODULE
8 pt. I/O Modules starting at $109, for all Models

ANALOG OUTPUT MODULE
8 pt. Analog I/O Modules starting at $34, for all Models

ANALOG INPUT MODULE
8 pt. Analog I/O Modules starting at $34, for all Models

DC OUTPUT MODULE
Plug-in Program Storage Module for $22, for all Models

Head to Head Comparison with DL205

Features	EZPLC	DL205
Total Memory	64 K words	D2-260: 30.4K
Total I/O	2048	D2-260: 16,384
I/O Status	Next to each digital I/O terminal point	NO
Integrated Comm. port	2	2
Modbus TCP/IP	YES	NO
Scan-time	3 ms Including Overhead	D2-260: 1.9 ms
Response time to Interrupt	60µsec screw-to-screw response from input to output	More than 2 ms

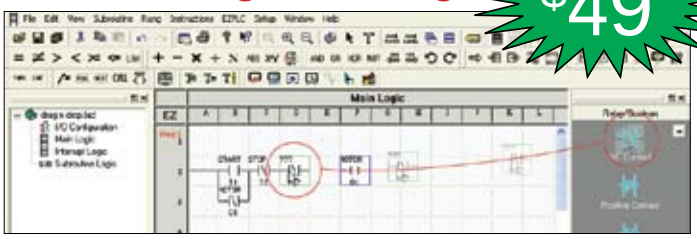
Features	EZPLC	DL205
# Interrupts	1 per 8 DC Inputs	1 per PLC
Auto-tuned PID	8, with exclusive PID Monitor in Excel	D2-260: 16
Short Circuit Proof	YES, ½ Amp each	NO
48 I/O System, 16 DI, 8 DO, 4 AI and 4 AO (Voltage) without Programming software	EZPLC-D-64E EZIO-4HSM1 2@EZIO-8DCI 2@EZIO-8DCOP EZIO-8ACI EZIO-8ACO EZIO-4ANI4ANOV $651	D2-09BDC1-1 - $195 H2-CTRIO-M - $279 H2-ECOM - $275 D2-260 - $299 D2-16ND3-2 - $79 D2-16TD2-2 - $82 D2-08NA-1 - $65 D2-08TA - $95 F2-04AD2AD - $279 F2-02DA-1 - $152 $1800

I/O Comparisons

Features	EZPLC	DL205
DC Input	EZIO-8DCI - $22 for 8 Points	D2-08TD1 - $52 for 8 Points
DC output	EZIO-8DCOP - $22 for 8 Points (Short ckt Proof)	D2-08TD1 - $52 for 8 Points
Combo Analog	EZIO-4ANI4ANOC -$109 for 4 Analog In and 4 Analog Out	F2-4AD2DA - $279 for 4 Analog In and 2 Analog Out
Thermo-couple	EZIO-4THI - $139 for 4 Points, enhanced option for detecting broken wire or burnt thermocouple	F2-04THM - $299 for 4 Points
High Speed Counter	EZIO - 4RTD - $179 for 4 Points	F2-04RTD - $299 for 4 Points
Ethernet	EZPLC-ETHERNET - $99 with Modbus TCP/IP	H2-CTRIO - $289

EZiest to Use Drag-n-Drop Ladder Programming

$49



Modular PLCs starting at $69



See page 5-6

EZPLCJr.™

The American Alternative .. Innovate'n'Save™

EZ Series™ TouchPLC™

The First and Only Touchpanel with Modular I/O Built-in

Save Panel Space, Save Cabling, Save $$

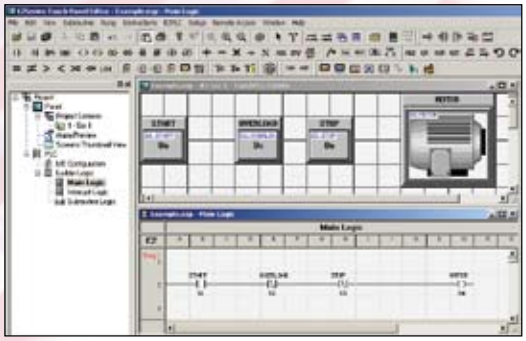


Starting At $554



See page 6-2

1. Single Software
2. Single Programming Port
3. Remote Monitoring and Control



The American Alternative .. Innovate'n'Save™

EZ Series™ CE Touchpanels

The First and Only Touchpanel with Video and PDF

Save Service Costs ... !



ETHERNET I/P FOR CONTROLOGIX
ETHERNET I/P FOR MICROLOGIX
ETHERNET I/P FOR SLC 500
MODBUS TCP/IP
AUTOMATIONDIRECT ECOM
EZPLC
GE'S SRTP

Low Cost Interface to PLCs!





PDF, EXCEL, POWERPOINT ... VIEWERS



See page 3-16

The American Alternative .. *Innovate'n'Save™*

EZ R I/O™ Incredibly Cost Effective Remote I/O for every PLCs, PCs & Networks

Digital I/O per pt. $5.03

Analog I/O per pt. $15.91



See page 8-2



Extremely Compact 2"x2"x1" 8pt. optically isolated, short-circuit proof I/O

Ethernet IP, Modbus TCP/IP, TCP/IP Interface $99

DeviceNet Interface $79

Profubus Interface $139

The American Alternative .. *Innovate'n'Save™*

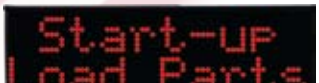
EZ Marquee™ Industrial LED Message Displays with Great Connectivity to PLCs & Networks

Networks to most major PLCs & networks



starting at $379

PAY-BACK IN JUST 90 DAYS



Oper. Assist Messages



Alarm Messages



Machine Status



Process Parameters



Motivational Messages



Productivity Data



Quality Data

See page 10-5

EZ CONNECT TO PLCS & NETWORKS

- DeviceNet
- **Profibus**
- **Ethernet TCP/IP**
- **Modbus TCP/IP**
- **Modbus RTU**
- **RS232/422/485 ports for connection to PLCs**





DIRECT SUNLIGHT READABLE MODELS

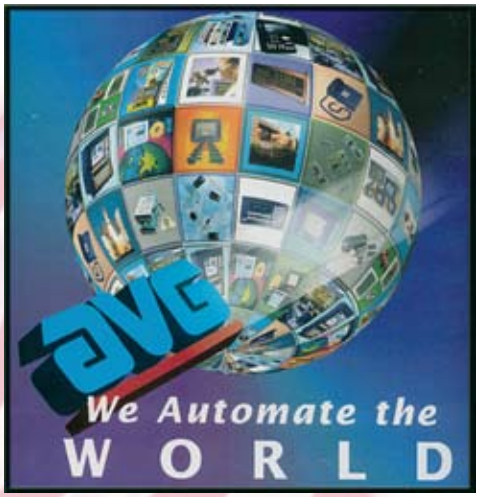


Our Products are Designed and Built in the USA

(with US and Foreign Content)

A Brief Overview of AVG

AVG, an American Group of companies, is vertically integrated to design and manufacture state of the art electronic products, cost effectively, for the best Return On Investment for our customers.



Significant Highlights & Core Competencies...

- Established in 1975, AVG has introduced more than 600 innovative new products.
- Extensive hardware, firmware, & software design capability, in Illinois & Iowa.
- Hold 20+ Patents & 20 New Pending
- Has an installed base of over $1 Billion in fortune 500 companies such as Ford, GM, P&G, Abbot, Miller, & IBM.
- PCB fabrication.
- Thick Film Hybrids.
- One of the largest semi-conductor FABs.
- Known for "Uticor Tough," High Reliability, HALT-HASSed Products, designed to operate in harsh industrial environments.
- In the fore-front of High Technology such as BGA and controlled impedance high density board products.





Almost all products in this catalog have been manufactured with pride in the USA by AVG/EZAutomation

American Pride in Manufacturing

All Research, Development and Manufacturing for EZAutomation is done at our plant in Bettendorf, IA.



4140 Utica Ridge Road
Bettendorf, IA 52722



Same Day Shipping

For Orders Received By 7:15 PM Central Standard Time

Applicable to All Phone, Fax, Email or On-Line Orders

We built a brand new 6000 sq. ft. warehouse and filled it with over $2 million of EZAutomation products.

The entire inventory is computer managed. Our target is to release your order to the warehouse within 15 seconds of sending a confirmation to you, and then boxed up within the next 10 minutes. We have held many, many drill rehearsals to test our systems. Thus we are confident that any order received by 7:15 P.M. CST will be shipped the same day.

We wanted to make sure that we are up early enough to take care of our East Coast customers and stay late to cater to our West Coast customers. With this in mind, we decided to have our order desk open from 6:00 A.M. in the morning to 8:00 P.M.



6,000 Sq. Ft.
Brand New EZAutomation
Warehouse with over
$2 Million of Inventory

Phone: 877-774-EASY (774-3279)

Mon - Fri 6:00am - 8:00pm Central Std Time

Fax: 1-877-775-EASY (775-3279)

Email: sales@ezautomation.net

On-Line: www.EZAutomation.net



Picks Up

AT **7:30pm** CST

Bettendorf, IA

Enhanced Customer Support

Extended Customer Service Hours:

6:00 am to 8:00 pm Central Standard Time

You will find our customer service reps to be well trained in our products. Each one of our CSRs is totally self sufficient with enhanced phone systems, computers, and printers/fax machines.

The phone system displays the length of time a customer has been on the phone. It also pulls up your purchase history as you punch in your customer code.

Our entire customer order system has been designed with the same "point and click" philosophy as the EZ Programming Software. Our target is to answer your phone call within 30 seconds of the first ring.

We realize that most End-User plants start early in the morning and West Coast customers are also entitled to make purchasing decisions until closing time and not 1:30pm. Therefore, we extended our live order desk to open at 6:00 am and close at 8:00 pm Central Standard Time.



Phone: 1-877-774-EASY (774-3279)
Fax: 1-877-775-EASY (775-3279)
sales@ezautomation.net



Enhanced Technical Support

Extended Tech Support Hours:

6:00 am to 12:00 midnight Central Standard Time

Rated the Best in Class!

1. Extended Hours:

6:00 am to 12:00 midnight CST. We realize that many times you need technical support late in the day. Therefore, you will have access to our expert technical assistance until 12:00 midnight, Monday through Friday.

2. Emergency Weekend Support:

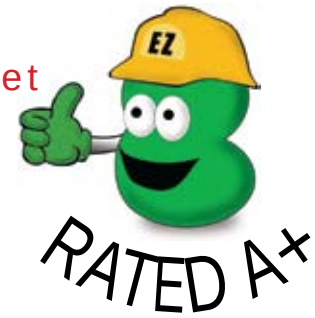
You can reach us at 563-650-8112 on the weekends for emergency tech support.
We may not be able to provide you the level of support available during the week, but we would most likely be able to solve your emergency needs.

3. Fully Equipped Labs:

Each one of our technical support team members has a private lab equipped with not only all of our products, but also most of the major brand PLCs to assist you in troubleshooting problems.



Phone: 1-877-774-EASY
Fax: 1-877-775-EASY
techsupport@ezautomation.net



4. Excellent Documentation:

You are already familiar with our EZSeries Touchpanel and EZSeries Textpanel product manuals. We write our manuals to be EZ to read and follow, so that you may not even need to make a call to the Tech Support department.

5. Local Support:

We have a staff of well trained sales consulting engineers, all degreed college graduates, throughout the USA. In addition, we have a network of high tech distributors throughout North America.

6. EZAutomation GMBH, Moenchengladbach, Germany:

Our European customers have direct access to our German division located near Dusseldorf, Germany. We have highly technical application engineers that have years of experience in dealing with PLCs, and Visualization products.

7. EZAutomation, Australia:

The outback region is covered by EZAutomation, servicing the south pacific region of the world.

8. EZAutomation, India:

We provide full Sales and Technical support in the Indian sub-continent through EZAutomation headquartered in Bangalore with Distributors through out India.

9. Other EZAutomation Franchises

EZAutomation products are supported world wide through value added resellers, distributors as well as Franchises. For a complete up-to-date listing log on to www.EZAutomation.net

37 Years of Tradition in the Automation Industry with over 200 Innovative, High Value Products



www.avg.net

In the Automation industry, you know us as the designers and manufacturers of the EZSeries Touchpanels and Textanels. What perhaps some of you may not know, is the history of two of our other divisions in this business, **Autotech Controls** and **Uticor Technologies**.



UTICOR Tough

"Built Like a Tank"

UTICOR

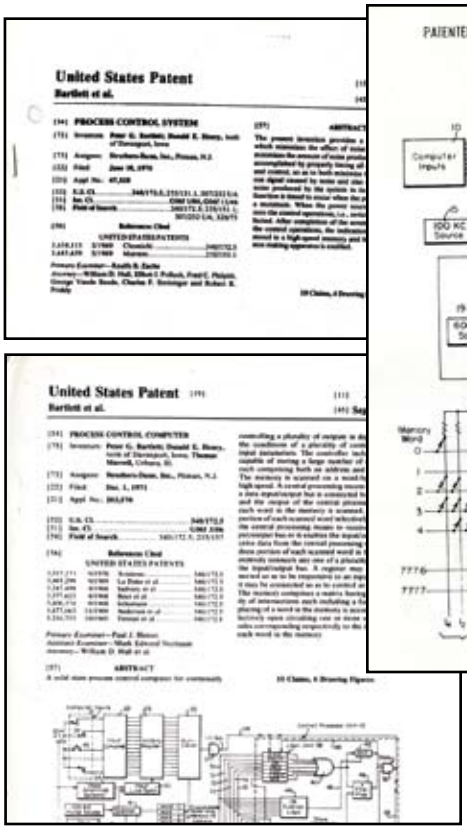
Bettendorf, IA
Established 1968

Uticor, formerly Struthers Dunn Systems division, has been in the forefront of PLC, welding controls, message displays and operator interface technology since 1968.

Uticor, in fact, was one of the early inventors of PLCs back in 1968. It held numerous patents on PLCs, then called Process Control Computers.

In the 1970's, Uticor applied it's PLC technology to welding controls and became one of the top suppliers of this technology to the Automotive industry. In fact, Uticor provided university research grants in collaboration with Ford in this area.

In the 1980's, Uticor became known as the premier supplier of Message Displays and Marquees in North America. It's large LED marquees became an Automotive standard. Uticor always had a very conservative design philosophy and it showed in its products and thus earned worldwide recognition as "Built Like a Tank" or "Uticor Tough".



US Patent No. 3,761,882 issued to Uticor on Sept 25, 1973

Describing the first time use of programmable memories in PLCs





“Innovation by Design”



PLS Products

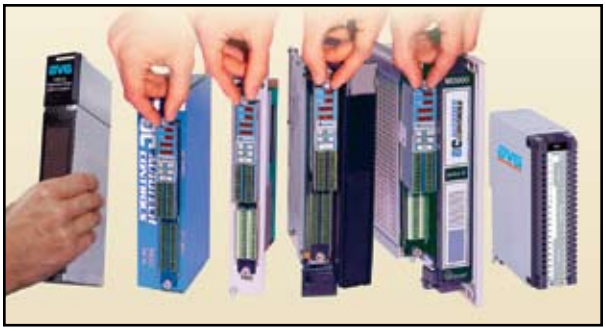
Designed and built in USA by AVG

www.avg.net

AVG’s Autotech division was the inventor of the first microprocessor based Programmable Limit Switch. In fact Autotech was the first company to coin the phrase “PLS” for replacing electro-mechanical cam-banks. Autotech has always lived by its tradition of being the most innovative company in the field of Automation controls.

AUTOTECH CONTROLS

Carol Stream, IL
Established 1975



First PLC plug in Resolver module that plugs into AB, Modicon, GE and Siemens PLCs

First microprocessor based modular PLS with an incredible scan-time of 57 microseconds for 20,000 setpoints



First integrated digital resolver, DigiSolver, Standard of the tire industry





First PLS with a built-in PLC



Due to the patented DMA techniques utilized in its PLSs to achieve 1° accuracy at even 3000 RPM, Autotech’s M1250, 1450 series PLSs remain the exclusive standard for two piece can lines throughout the world.



Five Traits Common to AVG Automation Products

1 Highest Processing Power per Cubic Inch

We have always packed the most processing power per cubic inch in most of our products. M1150 PLS remains today as the most compact PLS in the business. This is possible because of the vertical integration of AVG companies allowing us to utilize our strengths in the semiconductor technology, thick film hybrid technology and printed circuit board technology.



Smallest PLS in the World

2 Highest Operating Speed

We hold numerous patents in the area of high speed PLC or PLS operations, particularly under electrically noisy environments. Our M1250 PLS can process 20,000 of 3 digit setpoints in 57 microseconds, the fastest in the industry. Our recently introduced TouchPLS can process 256 of 4 digit setpoints in less than 10 microseconds.



10 Microsecond Scan-time

3 Simplest Human Interface

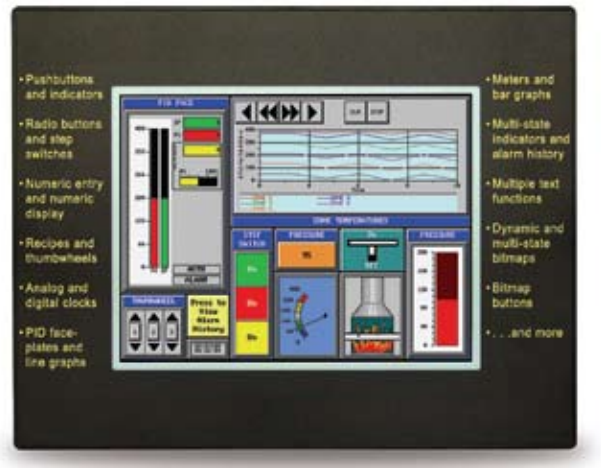
We require our design engineers to spend considerable time in technical field support. They have gone through numerous machine start-ups. They recognize the importance of simple human interface. You will find that trait throughout AVG Automation products. We developed a five key interface for our PLSs where as all our competitors use at least 20 keys. The simplicity and Ease of use of EZSeries Touchpanel is already legendary. In developing the EZSeries Touchpanel and EZSeries Textpanel products, our designers counted the number of clicks for every operation, resulting in an HMI where you can develop a fairly complex screen in less than 10 minutes.



Innovative 5 key PLS operator interface, an Autotech Hallmark

Program EZSeries Touchpanels in minutes!

EZ as 1 - 2 - 3



4 High Reliability Products

Later in this catalog, we will take you through our entire design and manufacturing process which has earned us the reputation for providing "Built Like a Tank" and "Uticor Tough" products to the industry. Most notably, our LED marquees look the same 10 years after their installation as they looked on the first day of operation.



"Built Like a Tank"

UTICOR Tough



5 Highest Immunity to Electrical Noise

We come from a background where our Automotive customers, such as Pontiac Motors, back in 1976, required us to run encoder wiring right along side with 440 VAC motor wiring without a shield as they did not want to change the connector between the control cabinet and the machine. You see, we had just invented the PLS and were replacing the old rotary cam switch with a PLS. GM wanted the benefits of the advanced technology but not change their wiring. Our Autotech division designed a Resolver based PLS where you could run it right along with 440 VAC and withstand unimaginable inductive kicks. In fact, we ended up making the resolver wiring short circuit proof and capable of taking a direct 120 VAC hit.

All our products go through exclusive noise testing and have the following ratings:

NEMA ICS 2-230 Showering Arc
ANSI C37, 90a-1974 SWC
Level C Chattering Relay Test

AVG started in the Automotive Industry in 1968





AVG products in a coal mine in Australia

Customer Driven Success

It is all about serving you, the customer!

Innovation through Listening

AVG is known for being a leader in the automation industry for constantly providing innovative products. EZAutomation by AVG is no different! Through active listening and working with customers' needs and requests, we are more effectively able to provide solutions and products which meet, and usually exceed, our customer's expectations.



"... EZCE Touchpanel materialized from an OEM's direct request to have video on his panel"



This level of commitment does not stop with our customer service representatives. AVG's own CEO and President continuously has an open ear to current and prospective customers' requests, concerns, ideas, etc. Our own EZCE Touchpanel materialized from an OEM's direct request to have video capabilities for training on his PLC Touch panel. Our EZSeries TouchpanelPLC and EZSeries TextpanelPLC products also originated from a customer requesting a "combo" unit, meaning a PLC attached to an operator interface. We responded not only with the "combo" units, but also took that opportunity to introduce a brand new PLC, all of which incorporated a new flexible, modular I/O design, starting at a ridiculously low $19!

Customer Service and Support

In staying align with our official promise, our first priority is that customers stay happy. This starts with customers reaching CSRs, tech support members, or any other member of our organization quickly and easily. Once satisfied with placing an order, getting tech support, or additional information, customers routinely demonstrate their appreciation of the level of service received by means of what we like to call "love letters", as some examples are shown to the right. This gives us a clear indication that you, the customer, understands that AVG/EZAutomation is committed to our relationship in providing you products with twice the features at less than half the cost, with a level of service that will put a smile on your face!

Customer Appreciation Excerpts

Here are just a few examples of how much our customers appreciate what we're doing.

"Excellent services from Sales and Technical support. Good follow upon on open issues. Sales/Tech eager to help and solve problems. Very reasonable pricing. Keep it up!!"

"Everything is terrific so far! All questions answered well in tech dept."

" I have your new catalog, thank you. Keep up the good work!!"

"Very good service and help from (Customer Service Representative) ***and*** (Tech Support Team member) ***in Technical. Thanks!"***

EZAutomation

THE MOST SENSIBLE AUTOMATION PRODUCTS DIRECT FROM THE FACTORY

with worldwide local support

Product Overview

www.avg.net

30 DAY GUARANTEE MONEY BACK

HALT CERTIFIED HASS

EZ Series™

Starting at **$199**

Starting on page 3-1

NEW

PLC Touchpanels w/ advanced SCADA

100s of NEW Features



EZ Series™ TextPLC™

Starting on page 9-1

Text Panel w/ Built-in PLC

Starting at **$272**



EZ Series™ Textpanel™

Starting at **$169**

NEW

Starting on page 4-1

Vacuum Fluorescent Textpanels now with DH485



EZ Series™ TouchPLC™

Starting on page 6-1

Touch Panel w/ Built-in PLC

NEW

Integrated Software



Starting at **$510**

EZMarquee™

Starting at **$379**

Starting on page 10-1

The Most Practical Industrial Marquees at SENSIBLE Prices



Both Indoor & Outdoor

EZ Series™ CE Touch Computer™

The Most SENSIBLE Stable Platform CE Computer

Starting at **$599**



Starting on page 11-1

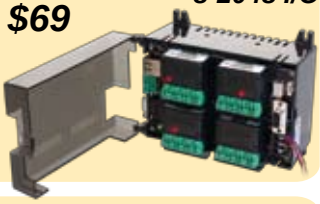
EZPLC™

Starting at **$69**

8-2048 I/O

Starting on page 5-1

The Most SENSIBLE Micro Modular PLC Ever Built



EZ Series™ CE Touchpanel™

Starting on page 3-1

The Most SENSIBLE Open Platform PLC Touch Panel

Internet Browser & Windows CE File Viewer

AMD 333 MHz CE Processor

Starting at **$399**



EZRIO™

Starting on page 8-1

Starting at **$22**

The Most SENSIBLE Real World I/O on DeviceNet, Profibus & Ethernet



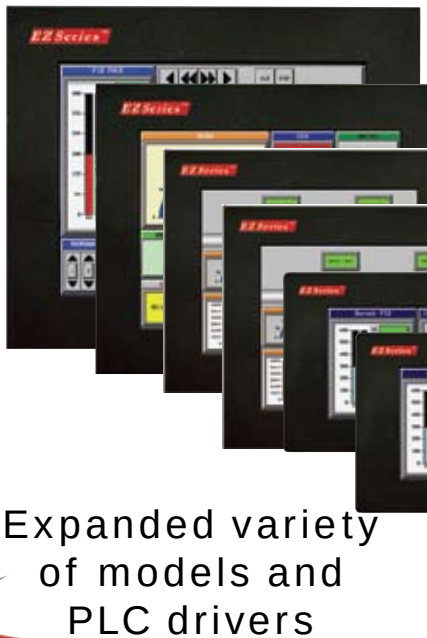
EZMonitor™

Starting at **$999**

The Most SENSIBLE Flat Panel Monitors



Starting on page 12-1



15" TFT starting at $2199
10" TFT starting at $1499
8" TFT starting at $949
8" STN starting at $849
6" TFT starting at $769
6" STN starting at $649
6" White on Blue starting at $369
4" TFT starting at $299
4" Mono starting at $199

EZ Series™

High-End SCADA Features & PC Graphics at fraction of Cost

Starting on page 3-1

Starting at $199

Expanded variety of models and PLC drivers



$199

EZ-S4M-FS
4" TFT



$299

EZ-T4C-FS
4" Mono

4 New Models



Starting At $1499

EZ-T6C-FOD
Outdoor Readable



Starting At $2499

EZ-T10C-FOD
Outdoor Readable

Lowest Cost of Ownership from Initial Purchase through end of Life

1. Panel cost starting st $199

2. No manual required, self-learn programing software, just $99

3. Fastest Screen design software saves programming time

4. Unique On-Line programming saves project start-up time

5. OEM/SI Utility saves project upgrade in **the field**

6. The One and Only Remote Monitoring and Control feature saves thousands of $$$ **in field Trips!!**

Exclusive Features

- Online Programming
- Connect to more than 90% of the PLC & networks
- On-Screen Recipe Edit
- Free built-in photo editor
- Fastest touch screen response time (typical 0.75 seconds)
- Data Acquisition over RS232/422/485 for just $99
- Design protection for OEM/SI
- Outdoor Readable Models
- Trend Object
- Vector graphics for most effective memory utilization
- Monitor tag values
- Instant Mouse over colors
- Remote Monitoring and Control over Internet/Intranet/Modem
- Event triggered Email notification
- 2GB of local data storage on SD Card

** RMC and SD card not available on Reduced Memory "R" and 4 inch models*

Remote Monitoring & Control



EZRMC $99

Troubleshoot your Panel/Project Half way across the World without leaving your Desk!!

Additional 2GB Data Storage





EZSeries™

PLC Text Panels

Starting on page 4-1

Starting at $169

Now with DH485

2 New Models

with Vacuum Fluorescent Display

VFD DISPLAY
GREAT VIEWING ANGLE

No Matter How You Look At It!



$269

EZ-220V

2-line vacuum fluorescent message display



$329

EZ-220PV

2-line vacuum fluorescent message display with keypad

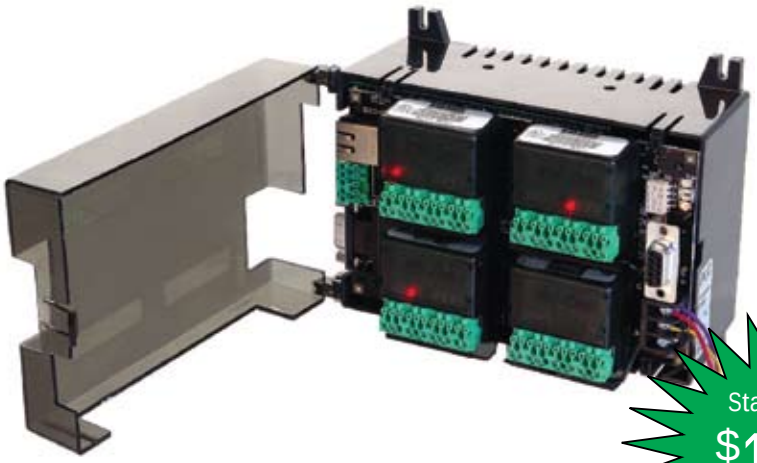
8 New Drivers

- Aromat Mewtocol Com
- Allen-Bradley DH485
- Baldor
- Control Technology Corp. (CTC), 2600, 2700, 5100
- Idec Computer Link
- Parker-Hannifan
- Square D Symax - 300 and 400 Series
- Texas Instruments - TI5x5 Series
- Yaskawa

Textpanel with DH485, Ideal Replacement for Obsolete Dataliners



EZSeries Textpanel now with DH485 driver is an ideal replacement for those feature limited and hard to find obsolete Dataliners from Allen Bradley costing less than 10% of original Dataliners.



EZPLC™

High-End PLCs at Cost of Fixed I/O PLCs & Smart Relays

Where option modules don't cost more than the PLC

Starting on page 5-1

Starting at $166 for 16 I/O

Choice of 4 I/O bases and 28 different modules for **complete flexibility**

Modular PLCs

Starting at $69



NEW

EZPLCJr.™

First SENSIBLE Analog I/O

$109 12 bit, 4 Analog IN 4 Analog Out



NEW PWM Module

Incredible Communications capability at Low Cost

NEW

Built-in RS422/485 port

DeviceNet, Profibus, Modbus TCP/IP, Mod-bus RTU and Ethernet IP Options

Extremely Flexible and SENSIBLE Plug-in I/O

Including 100 kHz Encoder Modules

$109



Starting at $22 for 8DC IN or OUT

SENSIBLE EZ to use Programming Software

$49



64 KByte of User Memory and 3 ms scantime



Transportable Program Storage Module



$49

NEW

EZ Series™ TouchPLC™

Combination of Most Powerful Touchpanel and High Performance Modular PLC



NEW INTEGRATED HOUSING

Starting at $554 for 16 I/O

First Touchpanel with Modular PLC built-in

Starting on page 6-1

I/O Base depends on size of panel

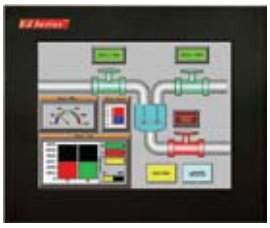
Choice of 8 Operator Panels



EZP-S6W-FS-PLC
6" White on Blue
$510
Up to 32 I/O



EZP-S6C-FS-PLC
6" Color
$910
Up to 32 I/O



EZP-T8C-FS-PLC
8" Color
$1549
Up to 64 I/O



EZP-T10C-FS-PLC
10" Color
$1849
Up to 64 I/O



EZP-T15C-FS-PLC
15" Color
$2649
Up to 64 I/O

Built-in Micro-Modular PLC

with 64 KB of User Memory
and 3 ms Scan time

SENSIBLE EZ to use Programming Software



$99

Extremely Flexible and SENSIBLE Plug-in I/O

Including 100 KHz Encoder Modules



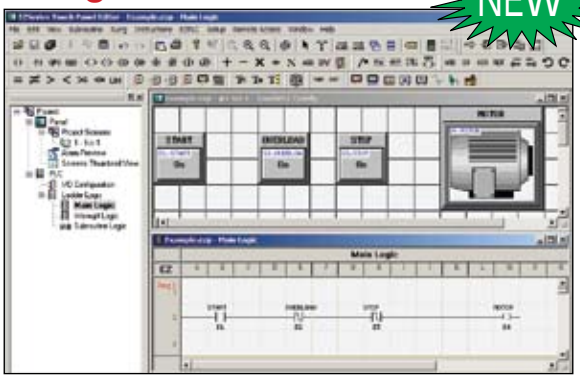
First SENSIBLE Analog I/O



$109
12 bit, 4 Analog IN
4 Analog Out

Program Touchpanel and PLC through one Port

NEW





EZI/O™

Compact, Flexible, Powerful and SENSIBLY Priced

Starting on page 7-1

You will demand a lot more from your current supplier after you look at EZI/O

Digital DC I/O

8 24 DC Output
@ 0.5 Amp each
Short Circuit Proof

$22



Analog I/O

Incredible Value

$109



Discrete AC I/O

4 110-240 VAC Input
4 110-240 VAC Outputs @ 0.8 Amp

$34



High Speed Counter and PLS

2 Channel 60 KHz counter module with quadrature encoder input with 4 high speed PLS outputs

$99



Discrete Relay Out

4 Normally Open Relay Outputs, 1 amp 220 VAC

$49



Transportable Program Storage Module

NEW

$49

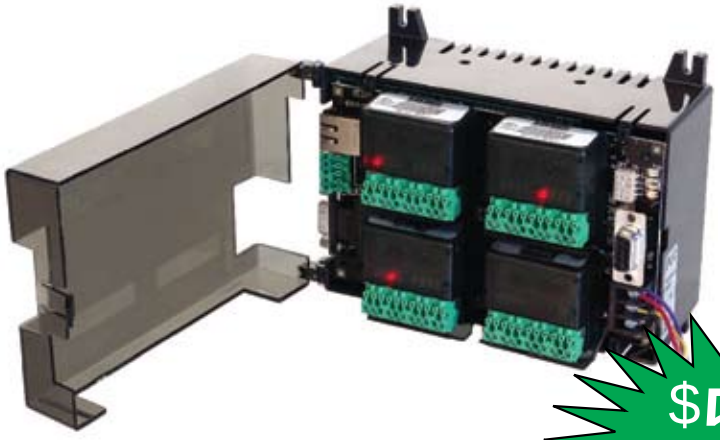


250KHz Pulse Width Module

NEW

$179





EZRIO™

Best Value, EZiest to **Configure, Industrial I/O** for PLCs, PCs & Networks

Starting on page 8-1

$5.03 per pt.

Choice of 4 I/O bases and 28 different modules for **complete flexibility**

Remote I/O for PLCs

Ethernet IP, Modbus TCP/IP, Modbus RTU, DeviceNet, profibus and EZSeries Protocols

MicroLogix 1100
ControlLogix



Analog I/O

Incredible Value



$109

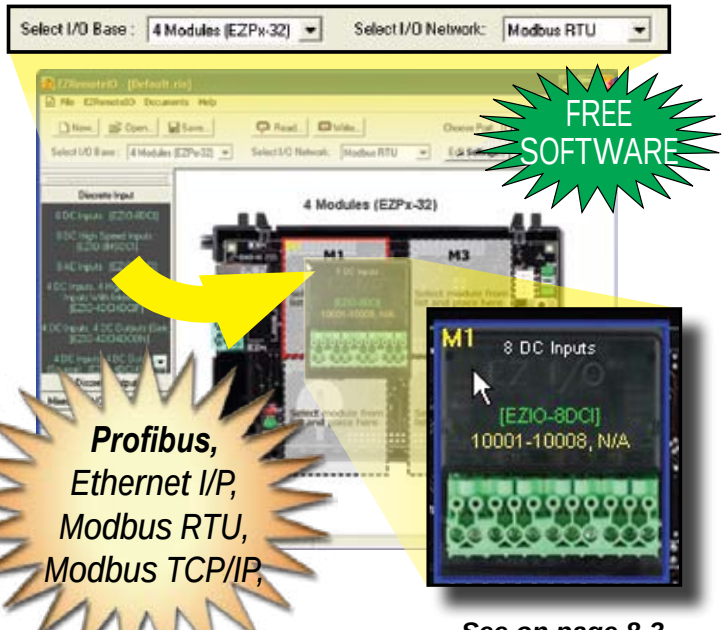
12 Bit Analog In, 4 Analog Out
0-5V, 0-10V, 0-20 mA or 4 to 20 mA
4 Input Thermocouple for $129

Remote I/O for PC based Controls

Modbus RTU, Modbus TCP/IP & EZ Protocols



CHOOSE THE NETWORK & MODULE... EZ REMOTE IO CONFIGURES THE REST



See on page 8-3

Digital Plug-in DC I/O

8 24 DC Output
@ 0.5 Amp each
Short Circuit Proof



$22



EZ Text PLC™

Text Panel with Built-in PLC

Starting at $316 for 16 I/O

Starting on page 9-1

The Most SENSIBLE One-Piece Automation Controller for a Compact Machine

Choice of 5 EZSeries Textpanel Operator Panels



EZ-220-PLC
$272
Up to 32 I/O



EZ-420-PLC
$292
Up to 32 I/O



EZ-220P-PLC
$342
Up to 48 I/O



EZ-220-V-PLC
$372
Up to 32 I/O



EZ-220P-V-PLC
$442
Up to 48 I/O

Built-in Micro-Modular PLC

with 64 KB of User Memory and 3 ms Scan time

SENSIBLE EZ to use Programming Software



$49

Extremely Flexible and SENSIBLE Plug-in I/O

Including 100 kHz Encoder Modules



Incredible Communications capability for its class

Built-in RS422/485 port

DeviceNet, Profibus and Ethernet Options

First SENSIBLE Analog I/O

$109
12 bit, 4 Analog IN
4 Analog Out



Digital Plug-in DC I/O

$22

8 24 DC Output
@ 0.5 Amp each
Short Circuit Proof





EZMarquee™

Industrial LED Message Displays with great connectivity to PLCs & Networks

Starting on page 10-1



Starting at $379

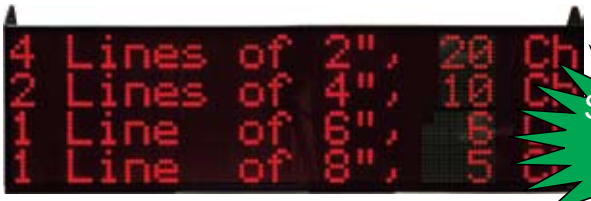
At these prices, all production machines should have a Marquee!

Choice of 16 EZMarquee Message Displays

1 Line of 10 2" Characters to
4 Lines of 40 2" Characters



$549 1 line of 20 2" characters



$1599 4 lines of 20 2" characters

2" - 8" Mixed Characters

For Up to 400 Feet Visibility

International Character Set

Supports up to 8 Different Languages

Scrolling, Blinking Messages

Other Features

NEMA 12 Enclosure
Matched LEDs for Uniform Brightness
Excellent Power Management without a fan

EZMarquee Programming Software

EZ as 1 - 2 - 3

EZ Interface to Most PLCs

All you need is ASCII out

Options for DeviceNet, **Profibus and** Ethernet TCP/IP

$79 DeviceNet
$**139 Profibus**
$99 Ethernet

Master Marquee option when used with EZPLC

Add 2000+ message storage capacity, message triggers, Logic Control with Local I/O, and the power of a 32 bit 40 MHz Processor for only $144



$144 ADDER

Direct Sunlight & Outdoor Models



EZSeries™ CE Touchpanels

Advanced PLC Touchpanel with Windows CE Operating System, High-end SCADA Features plus Windows Features

Starting on page 3-16

Complete Interoperatability between dedicated & CE Panels



Exclusive Features

- **Online Programming**
- **Connect to more than 90% of the PLC & networks**
- **On-Screen Recipe Edit**
- **Free built-in photo editor**
- **Fastest touch screen response time (typical 0.75 seconds)**
- **Data Acquisition over RS232/422/485 for just $99**
- **Design protection for OEM/SI**
- **Outdoor Readable Models**
- **Trend Object**
- **Vector graphics for most effective memory utilization**
- **Monitor tag values**
- **Instant Mouse over colors**
- **Remote Monitoring and Control over Internet/ Intranet**
- **Event triggered Email notification**

All EZSeries Features + PDF, Excel, powerpoint ... viewers



7 Built-in Ethernet Protocols at No Extra Cost!



ETHERNET I/P FOR CONTROLOGIX
ETHERNET I/P FOR MICROLOGIX
ETHERNET I/P FOR SLC 500
MODBUS TCP/IP
AUTOMATIONDIRECT ECOM
EZPLC
GE'S SRTP

EZ Touchscreen CE Computer™



The Most SENSIBLE Made in America CE Computer with Guaranteed Hardware for 7 Years

Starting on page 11-1

Starting at $599

8 Models

AMD Alchemy 333 MHz CPU

Motherboard with the same footprint as EZPanel, low power; does not need heat sinks.

32 MB Flash, 64MB RAM, Built-in Compact Flash Slot

10/100 Base-T Ethernet

One RS232, one RS232/422/485 Port USB Host

4 Wire Analog Touchscreen

Full Industrial Ratings with NEMA 4 Front Plate

Network Interface and Real World I/O Options

Software:

Standard: Windows CE.NET 4.2 Core with Internet Explorer Base API

Enhanced: Windows CE.NET 4.2 Professional Plus with File Viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE



6" White on Blue QVGA
Standard: $599
Enhanced: $699



6" Monochrome QVGA
Standard: $749
Enhanced: $849



6" STN Color QVGA
Standard: $899
Enhanced: $999



6" TFT Color QVGA
Standard: $1199
Enhanced: $1299



8" STN Color, VGA
Standard: $1299
Enhanced: $1399



8" TFT Color, VGA
Standard: $1499
Enhanced: $1599



10" TFT Color, VGA
Standard: $1799
Enhanced: $1899



15" TFT Color, VGA
Standard: $1999
Enhanced: $2099



EZMonitor™

The Most SENSIBLE Industrial Flat Panel Monitors

Starting at $999

Starting on page 12-1

- **Industrial Rated Displays with**
- **Nema 4,4x Front Bezel**
- **4 Sizes from 10.4”** Display to 17” Display
- **Available With and Without** Analog Resistive Touch Screens
- **50,000 Hours Backlight** Half-life (12” and 17”)

Only 1.9” Deep!



$999

10” SVGA TFT Color - Nema 4/4X



$999

12” SVGA TFT Color - Nema 4/4X



$1099

15” XGA TFT Color - Nema 4/4X



$1199

17” XGA TFT Color - Nema 4/4X



$1099

10” SVGA TFT Color - with Touch Screen, Nema 4/4X



$1199

12” SVGA TFT Color - with Touch Screen, Nema 4/4X



$1299

15” XGA TFT Color - with Touch Screen, Nema 4/4X



$1499

17” XGA TFT Color - with Touch Screen, Nema 4/4X

SENSIBLE Prices on High Quality Products

You Don't Have to be an Asian Importer to Offer Competitive Prices on Automation Products!

How Do We Do It?

1 Follow the EZSeries Touchpanel model:

When EZSeries Touchpanel was introduced in January 2001, it was hailed as the most practical PLC Touchpanel on the market. It not only offered the easiest to use programming software, this feature rich touchpanel broke all the previous price barriers. It truly offered "twice the features at half the prices". This feat was accomplished by designing the panel from the ground up to be manufactured in high quantities. Previous 3 board construction of Uticor PGI panels was condensed to a highly integrated single board having the CPU, video driver, power supply as well as the driver electronics all on one board.

AVG has followed the same philosophy in designing the seven new product lines being introduced in this catalog. EZMarquee is a very good example. AVG engineers first reduced the power consumption of the marquee by 2/3rd while maintaining the same luminous intensity. Once that was accomplished, everything else fell in line. Power supplies were reduced by 2/3rd. Heatsinks, metal and massive circuit boards you will find in a typical marquee, were condensed dramatically.



EZSeries Touchpanel CPU board with high level of chip integration on EZSeries Touchpanel



Marquee processor board **using Coldfire 5272 40 MHz** processor with integrated **Ethernet and a highly efficient** 144 pin BGA (Ball Grid Array)

2 Vertical Integration:

AVG is a vertically integrated American company with in-house capability to manufacture semiconductors, thick film hybrids and printed circuit boards. We use internal transfer costs for components eliminating mark up after mark up.

Made in America

(with US & Foreign content)





3 Automated Manufacturing:

AVG's typical labor costs in EZAutomation products is less than 8% of the selling price. This is accomplished by using high speed automation in SMT assembly and an in-line production philosophy. Thus, we are able to very effectively compete with Asian manufacturers even with their low labor rates. Freight and duty well offset the impact of higher American wages. Automated manufacturing also results in fewer rejects and higher quality. A product built without any repairs, is inherently more reliable.

4 Flat Management Structure:

At AVG, we do not believe in multiple layers of management and thus run a very lean organization, resulting in reduced overhead costs. We pride ourselves in having management involved in actual work in the trenches. You would not find our managers sitting around in closed door offices. We invite you to visit our factory in Bettendorf, IA and see for yourself the Iowa farm work ethic.

5 Lower Costs of Marketing and **Distribution without Sacrificing** Local Customer Support:

Since EZAutomation provides a high degree of stock and technical support to its Value Added Resellers, the cost of distribution is reduced. In addition to our "Best in Class Factory Technical Support", we believe in local service and support. **As you can see from the prices in this catalog, we can categorically state that our total cost of sales, marketing, advertising and local value added customer support is lower than any direct business model.**

Innovative Design and Rigorous Manufacturing Process Controls mean SENSIBLE prices and High Reliability

Product Innovation:

As you will see throughout this catalog, we pack the highest processing power per cubic inch. Just look at our EZ I/O. It is AVG's innovation that led to this extremely cost effective design. Whether it is silicon, ceramic, plastic or FR4, the cost is generally per square inch or cubic inch. By reducing the size, we not only gain the advantage of offering a panel space saving product to our customers, it costs us less, resulting in lower costs to you.

Innovative Design is a Habit at AVG



Smallest PLS in the World



EZSeries TextPLC



EZ I/O modules



EZMarquee 1/3rd Weight, 1/3rd Power, 1/3rd Price

It really is $22 for 8 of 24 DC, 0.5 Amp short-circuit proof outputs

In a limited focus group study, we discovered that some of you might be concerned about the quality or reliability of a $22 I/O module once you find out that this is $22 for 8 outputs and not $22 for each output. So we are going to discuss this module in a little more detail.

This $22 module is the result of a highly innovative design. All our designs must also pass our rigorous HALT/HASS tests as fully described in the following pages. This module is no exception. It was subjected to the following tests:

1. -40˚C to 125˚C @ 20 G of shock and 4 G of vibration with a temperature gradient of 100˚C/minute.
2. -20˚C to 70˚C @ 10 G of shock and 2.4 G of vibration with power on.
3. NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test.
4. Short circuit test at 70˚C.
5. 2500 Volt Optical Isolation.

This module comes with a removable field wiring terminal block, has an LED indicator for each output and carries our standard 2 year warranty.





Compare our SENSIBLE prices to others!

PLC Discrete I/O

EZAutomation	ADC	Allen-Bradley
EZIO-8DCOP **8 DC Out** **0.5 Amp, 24 VDC** **$22**	DO-10TD2 **10 DC Out** **0.3 Amp, 24 VDC** **$49**	1762-OB8 **8 DC Out** **0.5 Amp, 24 VDC** **$144**

Profibus Interface

EZAutomation	ADC	Allen-Bradley
EZIO-PROFIBUS **$139**	HO-PSCM **$259**	**NA**

PLC 12 Bit Analog I/O

EZAutomation	ADC	Allen-Bradley
EZIO-4ANI4ANOV **4 Analog In** **4 Analog Out** **$109**	2 of FO-2AD2DA-2 **2 Analog In** **2 Analog Out** **$298**	2 of 1762-IF2OF2 **2 Analog In** **2 Analog Out** **$588**

10.4" TFT CE Computer with Advanced HMI Software and Windows CE Professional Plus

EZAutomation	ADC	Allen-Bradley
EZC-T10C-E **with programming software and cable** **$1618**	**NA**	6182H-10TLH4D **with programming software and cable** **$4103**

QS 9000 8D Analysis Program

Having gotten started in the Automotive Industry, we follow the Automotive QS9000 procedures to track any field failures. If we notice repeated failures of the same kind, we invoke our 8D, also called Advanced Technical Analysis or "ATA" for short, procedure. 8D stands for eight disciplines. The purpose of 8D ATA is to determine the root cause of a defect and institute preventive measures to stop future occurrences. In the event you experience a repeat problem, we encourage you to immediately contact our tech support group. Sometimes we may even become a little bit of a pest in pursuing the "root cause" trail as the 8D ATA team's sole charter is to prevent future problems. The 8D Process has 8 distinct steps and generates an 8D report as shown to the right.


AVG Automation

EZAutomation

8-D Discipline Report

1. TEAM CONTACT:

2. PROBLEM DESCRIPTION:

3. POSSIBLE ROOT CAUSE(S):

4. SYMPTOMS:

5. ACTIONS:

6. VERIFICATION

7. PREVENTION:

8. CONGRATULATE YOUR TEAM:

1. Team Contact

This is the first step of 8D process and is used to initiate a team, a multi-disciplinary team that involves members who are customers as well as employees of AVG/EZAutomation. The main purpose of this step is to have all the contact information from all the parties to enable free communication. Also this section includes data such as the part# of a product, Serial #, Date 8D analysis started and the date it will be completed.

2. Problem Description

This step in 8D Process is one of the most critical steps of solving a problem effectively and efficiently. The main focus in this step is to gather all the necessary information required to understand a problem as described by a customer. It has two parts to it:

A) Customer Complaint

The first and foremost important task is to effectively communicate with a customer to understand the complaint as described by the customer.

B) Technician's Evaluation

Based on Customer's Complaint, a technician validates the issues as described by a customer to make sure that he understands the problem. If for any reason a technician cannot validate a complaint, he gets in touch with the customer to inquire further to complete the validation process.

3. Possible Root Causes

After validating a complaint from a customer, the next step is to identify the root cause of a problem. This step involves performing a failure analysis and investigating to determine the root cause of a problem. Before possible root causes are identified, it is necessary that a detailed description of the failure mechanism is provided to show that the failure has been understood to the fullest.

4. Symptoms

The next step is to tie the symptoms with the possible root causes. Steps 1-3 play a key role in understanding, investigating, and narrowing down all the possible reasons for a failure. This step solidifies a relationship between a failure and the possible cause of a failure. This link has to be justified with proper documentation for validation and complete root cause analysis.

5. Actions

Once a relationship has been established between the root cause and a failure, the very next step is to correct that problem. First all suspect product is segregated for further testing. Design and/or manufacturing is corrected to remove the failure mode.

6. Verification

After all the actions are taken to fix a failed product, the next step is to verify the relationship previously established between the root cause and the failure. This requires extensive testing and operation of a product within specifications to verify that fixing a root cause has eliminated the cause of failure.

7. Prevention

One of the most important benefits of 8D analysis is the prevention program. If a root cause is identified to be present in the design and/or manufacturing process of a product, necessary changes are suggested to engineering department to make sure all such root causes are eliminated from the very design and/or manufacturing process of a product.

8. Congratulating Team

The last step of an 8D process is to congratulate the team members who worked on all the 7 steps to completion. At AVG, acknowledgement is the key to our better working environment!

EZAutomation Products are Built...

UTICOR Tough

HALT Based Design Process

(Highly Accelerated Life Test)

The Ultimate Test for Reliability

The HALT test was initially conceived for testing electronic products for shuttle launch. The purpose of this test is to subject the product to a combination of high shock, vibration, and a steep temperature gradient. MTBF of all electronic products depends upon the strength of connections of various components inside and therefore HALT is the ultimate test for reliability testing.
Here is how it works:

1. Initial Design Specifications

Before a product is taken to drawing board, all the desired specifications are laid out around which a product is to be designed. These specifications are based on the actual working parameters that are applied to our products in the industry. Let's pick an example of our EZSeries Textpanel and see all the steps it goes through. The published specifications for EZSeries Textpanel are to the right:

2. HALT Test Of Finished Product

Once a product is designed and built as per initial specifications, it is subjected to HALT testing. Again the point of this phase is to eliminate any pre-mature failure that might be present in its initial design. Based on the above published specifications, EZSeries Textpanel is subjected to following tests:

I) Without Power (Non-Operating)

A - Temperature Cycling: 20°C beyond published spec @ 100°C/min.

For Non-Operating (storage) conditions, EZSeries Textpanel goes through a total of 50 cycles of thermal shock in the range of -40˚C to +80˚C at the rate of 100˚C/min. If EZSeries Textpanel passes Temperature Cycling test, it advances to next step. If for any reason EZSeries Textpanel does not complete temperature cycling test for at least 50 cycles it goes back to drawing board for re-design and the process continues until it passes.

B - Shock and Vibration Cycling: 2 Times published spec

After EZSeries Textpanel passes Temperature Cycling test, it is subjected to Vibration and Shock test as set by internal HALT specifications of 5-55 HZ 4 G's for 2 hours maximum and 20 G's for 12 ms respectively Non-Operating (storage) conditions. If EZSeries Textpanel passes the Shock and Vibration cycling test, it advances to next step. If for any reason EZSeries Textpanel does not complete the Shock and Vibration cycling test for at least 50 cycles, it goes back to drawing board for re-design and the process continues until it passes.

C - Combined Temperature and Shock/Vibration: 20°C beyond & 2 Times Gs @ 100°C/min.

After EZSeries Textpanel passes Shock and Vibration cycling test, it is subjected to a combined Temperature, Shock, and Vibration test as set by internal HALT specifications of -40˚C to +80˚C at the rate of 100˚C/min, 5-55 HZ 4 G's for 2 hours maximum, and 20 G's for 12 ms respectively for Non-Operating (storage) conditions.

EZSeries Textpanel's Published Specifications:

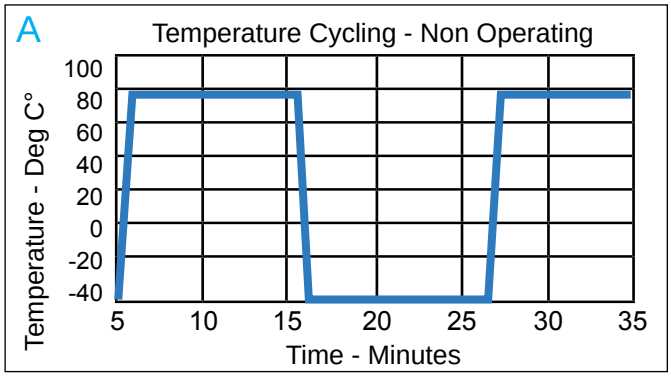
HALT CERTIFIED HASS

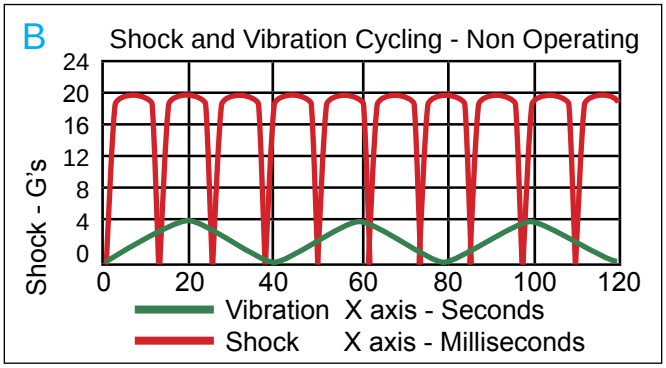
Storage (Non-Operating) Temperature: -20˚C to +60˚C
Operating Temperature: 0˚C to +45˚C
Vibration: 5 to 55 Hz 2 G's for 2 hours in X, Y, and Z axis
Shock: 10 G for 12ms in the X, Y, and Z axis

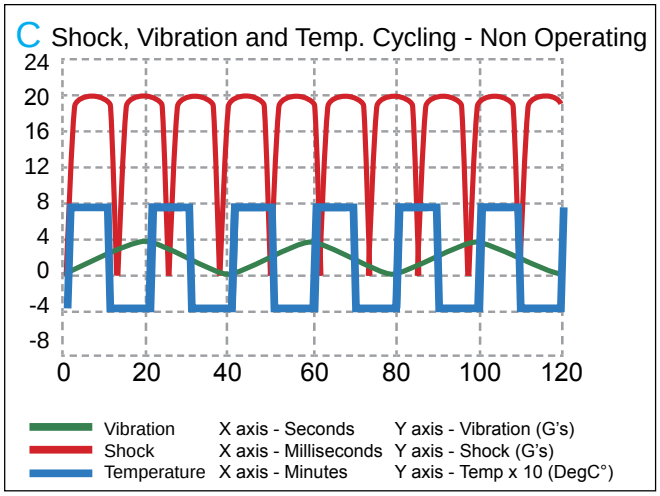
Internal HALT Threshold To Achieve The Above Published Specifications:

Our internal HALT thresholds are ALWAYS higher then the required published specifications. These thresholds for EZSeries Textpanel are as follows:

Storage Temperature: -40˚C to +80˚C
Storage (Non-Operating) Vibration: 5 to 55 Hz 4 G's for 2 hours in X, Y, and Z axis
Storage (Non-Operating) Shock: 20G for 12ms in the X, Y, and Z axis
Operating Temperature: -10˚C to +55˚C
Operating Vibration: 5 to 55 Hz 2.4 G's for 2 hours in X, Y, and Z axis
Operating Shock 10G for less than 12ms in the X, Y, and Z axis







II) Unit Under Power, Fully Functional (Operating)

A - Temperature Cycling: 10°C beyond published spec @ 100°C/min.

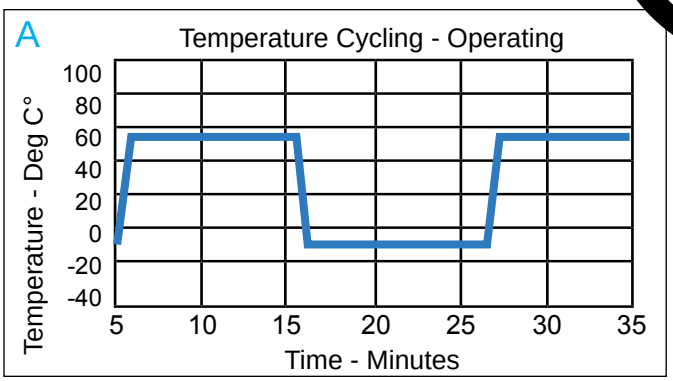
For Operating conditions, EZSeries Textpanel goes through a total of 50 cycles of thermal shock in the range of -10˚C to +55˚C at the rate of 100˚C/min. If EZSeries Textpanel passes Temperature Cycling test, it advances to next step. If for any reason EZSeries Textpanel does not complete temperature cycling test for at least 50 cycles it goes back to drawing board for re-design and the process continues until it passes.

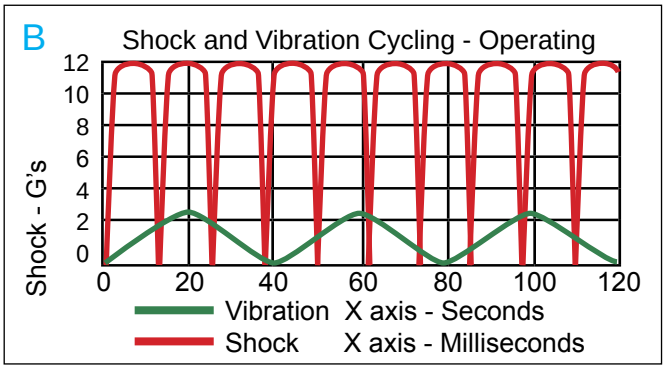
B - Shock and Vibration Cycling: 20% beyond published spec

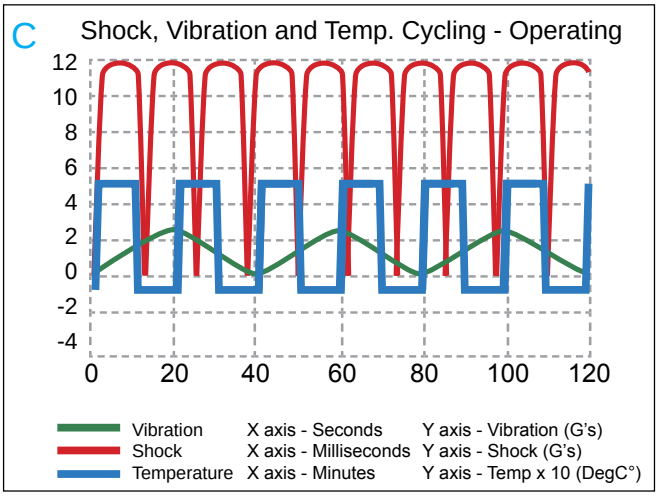
After EZSeries Textpanel passes Temperature Cycling test, it is subjected to Vibration and Shock test as set by internal HALT specifications of 5-55 HZ: 2.4 G's for 2 hours maximum and 12 G's for 12 ms respectively Operating conditions. If EZSeries Textpanel passes the Shock and Vibration cycling test, it advances to next step. If for any reason EZSeries Textpanel does not complete the Shock and Vibration cycling test for at least 50 cycles, it goes back to drawing board for re-design and the process continues until it passes.

C - Combined Temperature and Shock/Vibration: 10°C beyond & 20% beyond published Gs @ 100°C/min.

After EZSeries Textpanel passes Shock and Vibration cycling test, it is subjected to a combined Temperature, Shock, and Vibration test as set by internal HALT specifications of -10˚C to +55˚C at the rate of 100˚C/min, 5-55 HZ 2.4 G's for 2 hours maximum, and 12 G's for 12 ms respectively for Operating conditions.







After the successful completion of both Operating and Non-Operating HALT tests within specifications, EZSeries Textpanel is released for production.

HASS Based Manufacturing Process

Highly Accelerated Stress Screening (HASS)

HASS is an integral part of the manufacturing process at AVG/EZAutomation. The main purpose of HASS testing is to ensure that our manufacturing processes are in control. 1% AQL (per Mil Spec) level samples from the end of the manufacturing line are subjected to HASS testing to qualify and re-qualify the manufacturing process. If we detect a failure in HASS testing beyond acceptable Mil Spec numbers, the entire manufacturing lot is segregated for further screening. To explain this further, lets continue with the example of EZSeries Textpanel.

The operating specification for EZSeries Textpanel is 0˚C to +45˚C with 2Gs of vibration and 10Gs of shock. 1% AQL sample of a production run will be subjected to HASS testing from -5˚C to +50˚C @ 2.2 Gs of vibration and 11 Gs of shock. Failure beyond Mil Spec number based on 1% AQL, will subject the entire lot to segregation and further analysis.

HALT/HASS Chamber

-60˚C to 150˚C at 100˚C/min @ 50 Gs of shock and vibration. We invested over $500,000 in this HALT/HASS Chamber.



We make it EZ for you to organize software and **update products in the field**

EZ Launch Pad

Any EZAutomation software when installed comes with EZ Launch Pad, which is a great tool for keeping track of all the software in the EZ family, including EZSeries Touchpanel software. Just click on EZ Launch Pad and it will list all EZ programming editors present on your computer and you will be able to select the desired editor for your application.



Stay up to date with FREE Updates

EZAutomation products are built from the ground up to be the most sensible products in the automation industry utilizing upgradeable firmware stored in flash memory of the products. We at EZAutomation are continuously updating and improving our products and thus release updated firmwares at least twice a year. EZSeries Touchpanel, EZSeries Textpanel, EZPLC, EZSeries TouchPLC, EZSeries TextPLC, EZCE Touchscreen Computer and EZSeries CE Touchpanel all have upgradable flash firmwares. Updated firmwares for all these products are posted on our website at www.EZAutomation.net where they are available for users of EZAutomation products FREE of charge. Take advantage of Free updates and stay current with the most current revisions available.

No Cumbersome Software Registration

Ever been through the task of software registration? It took us a full day to just get new programming software registered with one of the major Automation suppliers in the world. Not with EZAutomation! Our software does not require any registration, licensing, or special keys to activate whatsoever. We automate the world and firmly believe in making it as simple and EZ as possible. Just install our software and start developing your projects and applications without ever having to worry about cumbersome software registration.

Note: All EZSeries Software is licensed to be installed on one PC only. For site licenses, please call EZAutomation 1-877-774-3279

OEM Application Update Utility

Many OEMs sell their machines to customers with limited computer knowledge. When an OEM makes a change in its machine programs, such as PLC programs or HMI programs, they desire to provide updates to their end customers world wide, with minimal effort. The OEM application utility has been written for this purpose. The OEM can put this utility on their website and load new programs whenever necessary. The end customer can simply connect their machine to a PC, click a few buttons and get the new program in minutes! This is an incredibly useful feature for the OEMs and to our knowledge, not found in any other operator panels.

...see page 3-46

Remote Flash Upgrade over Internet/Intranet

With this catalog we are also launching EZRMC which allows our customers to remotely upgrade the software, including the latest EZAutomation Firmware, in EZSeries Touchpanels and TouchPLCs over Internet/Intranet/Modem.

EZSeries PLCs with Ethernet option can also be similarly upgraded in the field.

...see page 3-8

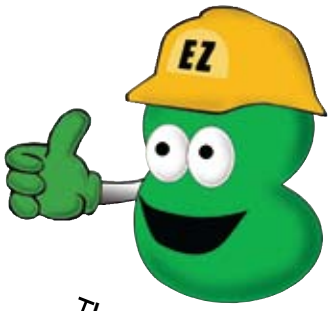


Innovate'n'Save™

Pricing Policy

No Discounts

EZAutomation is bringing to you innovative products with high reliability at prices well below half that of our competitors. We request you to please honor our pricing policy of "No Discounts". Our price is the same whether you buy one unit or thousands. Our customer service representatives will politely decline to have any conversation with respect to price discounts. We will offer from time to time "B" stock in "Like New" condition, but that would be through our official release/declaration from EZAutomation.



The most SENSIBLE Automation products!
The best prices in the industry!

Fixed Catalog Prices. No Discounts No Negotiation, Please!



Custom Products

Through Uticor and Autotech

EZAutomation is offering only standard off the shelf products. We will of course continue to add product features in response to customer feedback but those additions will get incorporated in new product releases or product enhancements from time to time. We will continue to aggressively seek your feedback regarding product features.

On the other hand, if you like to have some modifications made to one of the EZAutomation products and have sufficient quantity to justify the customization, you may communicate that wish to your CSR and we will have the right person from our sister divisions, either Uticor Technologies or Autotech Controls contact you. These divisions thrive on custom products and may consider your request for customization in quantities as low as 50, but generally 500 and up depending upon the product.

AVG Automation
AUTOTECH CONTROLS
UTICOR
EZAutomation

EZ 123 by AVG
EZ as 1-2-3

WHAT IS NEW ?

EZAutomation.net

FREE CATALOG

Made in USA (with US & Foreign Content)
AVG www.avg.net
INCREDIBLE VALUE

Highest Value Innovative American Automation Products

"Home of the most innovative high quality automation products, with incredibly low prices, delivered on time with a service that will put a smile on your face."

1-877-774-EASY 1-877-774-3279



Our site contains all the latest products, news and information. You'll also find detailed product specifications, product 360 views, product videos, application notes, software demos, software tutorials, programming examples, detailed comparisons, sample programs, technical manuals, software downloads, troubleshooting guides and more, including sections of this catalog available for download in PDF format.

EZ Access to Price and Product PDF

It is EZ to find the Price and Product PDFs of all EZAutomation products using our List box and scroll down menus in each product category.

Product Configurator

With drop down menus and check boxes, you can configure all products and accessories needed to design an application. Product Configurator tool also provides you a convienient quotation you can print.

Quick Search and Purchase History

You have the capability of searching by part number or description. This carries you to a product page that lists features, extended info, price, stock status, and accessories that go with the product and its photo. Also, at the bottom of the features page, you'll see your recent history. You have an option to turn your history off.

Real-time Stock Check

You can check stock status by clicking on desired product picture to view availability prior to ordering. If an item is not in stock, you are given an estimated lead-time.

Order Tracking

Using My Account/OrderStatus in your personal home page, you can track your order anytime the evening after your order is processed. Click Review/Track Orders, find the order in your history and click view. Click Track your package in the blue headline.

Online Store

We accept most major credit cards (MasterCard, VISA, American Express and Discover) as well as approved purchase orders. To establish a credit account with EZAutomation fill out our online credit application from the web site or print it out and fax it to us.

Secure Shopping

Our online store uses the latest encryption technology to protect our online shoppers by providing safe and secure ordering, whether by credit card or P.O..

E-mail Confirmations

When you order online, you'll receive email notifications confirming acceptance and shipment of your order.

E-mail Newsletter

The first time you login, you'll be given the option of signing up for our e-newsletter. Our e-newsletter will keep you informed of new software updates, product releases, the latest company news and more.



Innovate'n'Save™

General Information and Terms and Conditions

Order acceptance policy and security interest

EZAutomation's standard terms and conditions govern the transaction of accepting your PO and shipping the products pursuant to the PO. This applies to all POs whether by phone, fax, mail or online. If your PO or any other correspondence lists any terms different than ours, we may process the order but not accept your terms. We also reserve the right to change our terms and conditions at any time prior to shipment of your order. Your acceptance of the shipment of goods from EZAutomation confirms your acceptance of our terms and conditions. These terms and conditions are clearly spelled out in this catalog and shall govern all transactions relating to EZAutomation products. You may inquire about our existing terms and conditions at any time. EZAutomation also maintains a Security Interest in all goods shipped but not paid. We reserve the right to repossess any of our products either at your facility or shipped to your end customer, if we have not been fully paid for these products in accordance with our terms and conditions.

Order Processing

We encourage existing customers to place orders on-line using your respective account numbers. If you are a new customer, please contact Customer Service and they will assign you an account number. On-line orders are processed as soon as they are received into the business system pending no credit or shipping questions. If you prefer to mail or fax your orders it is our goal to input all orders the same day that they are received. Any orders that we receive over the weekend or on a holiday will be entered into our system the next operating business day. *Please note: It is our policy to verify all orders from new customers.*

Purchase Orders

It is not EZAutomation's policy to require the confirmation of telephone purchase orders. If your company prefers to confirm their purchase orders; we recommend that the label plainly states that the order is a confirmation of a purchase order. Your cooperation will help to eliminate unnecessary duplicate order entries. Only EZAutomation terms and Conditions will apply.

Taxes

Unless otherwise indicated, all prices and charges exclude excise, sales, value added, use, property, or like taxes that may be imposed by any taxing authority upon the manufacture, sale, or delivery of items sold by EZ Automation.

Changes to Orders

Due to our pledge that offers same day shipping and same day order processing; any changes that need to be made on an order that you have placed must be made before the actual order is entered into our system. Because of our quick order processing times, there is not much time for an order to be changed. Once our customer service representatives enter the order into the system; the order can not be changed. It is highly recommended that you review your orders and ask any pertinent questions you may have before submitting the final purchase order due to the limited time span you have for changes.

Company Address

Please use the address to the right for all forms of correspondence to EZAutomation.

Mail:
EZAutomation
4140 Utica Ridge Road
Bettendorf, IA 52722

Contact Us

We even made contacting us EZ!! All toll-free numbers are EZ to remember. We look forward to hearing from you!
Sorry we couldn't find telephone number with EZ and had to settle for EASY.

Phone:
877-774-EASY(3279)

Fax:
877-775-EASY(3279)

Email:
sales @ezautomation.net

Business Hours

Please feel free to order online or fax an order anytime on the phone.

Customer Service:
Monday - Friday
6 a.m. - 8 p.m.

Technical Support
6 AM – 12 MIDNIGHT CST
1-877-774-EASY

Receiving Products

We encourage all deliveries to be inspected promptly upon arrival. If it comes to your attention that there are any shortages or discrepancies it is imperative that you notify us within 48 hours of receipt.

Returns

30-Day Money Back Guarantee

EZAutomation products are backed by a 30 day money-back guarantee. You may return the product for prompt exchange, credit, or refund (excluding shipping and handling charges). You can find detailed information about returns and warranties on page 1-37.

Warranty/Returns

EZAutomation products carry a 2 year warranty against defects in materials and workmanship. We will replace or repair the defective product at our discretion. The warranty will be null and void if product is abused or used outside of the product specifications.

Ordering Information



Ordering via Website

Placing orders online is quick and easy and allows you to be able to go on-line to check the status and shipments of orders placed. Ordering on-line also offers you the benefit of being able to view your purchase history among other account activities. EZ Automation strives to keep our web site up-to-date and to keep our customers aware of new products that are coming out on a regular basis. Our on-line store at www.EZAutomation.net features a full range of our products and accessories. We further incentivise online ordering by offering you Free UPS ground shipping on all online orders exceeding $300.

www.EZAutomation.net

U.S. and Canada

New customers that want to establish credit with EZAutomation must call and obtain a customer account number before ordering via web. Once an account is established, we welcome all customers to place orders via our website for direct shipment. If you have forgotten your login information, call Customer Service for assistance. Customers must supply a valid U.S. or Canadian billing and shipping address, email address, and phone number for order to be accepted. Payment is only accepted in US currency. Orders are processed and shipped from our facility located in Bettendorf, Iowa. Customers in Canada are fully responsible for country taxes and duties incurred on a shipment. All orders, billing, or shipping activities should be directed to the following address:

4140 Utica Ridge Road
Bettendorf, IA 52722

Outside the U.S. and Canada

If you are outside the U.S. or Canada, you can place an order in our online store. If you pay by credit card we shall process your order in a normal manner. If you wish to establish credit your order will be forwarded to the international distributor closest to you. This may be within your country or a nearby country. The distributor will contact you about your order, pricing and terms and conditions.
We forward or respond to all international orders, but we cannot accept any responsibility for orders placed through our distributors.

Online Pricing

Our on-line pricing is reflected using U.S. dollars and is the only currency that our company will trade in. We strive to ensure that our on-line pricing is in agreement with our printed desk references but if you happen to notice a pricing discrepancy please notify us immediately and we will honor the most recent price list posted. Please note that the terms and conditions listed in the printed desk references supersede all direct or implied terms on the store front of our web site.

Online Processing

Once you complete your on-line order it is automatically entered into our system. We will send to your email address an alert confirming that we have received your order. We ship all orders on the day the order is entered if it is received before 7:15 p.m. CST on a normal business day.

Same-day shipping deadlines, carrier options and shipping charges are determined in shipping options on page 1-38.



Ordering via Phone

Our goal is to assist you in placing your order in the most pleasant, sensible and efficient way possible...the EZAutomation way!
Our customer service representatives enjoy speaking with our customers and are dedicated to providing fast and friendly service. In the rare occasion that we cannot answer your call right away, please wait for the next available representative.

1-877-774-EASY(3279)



Ordering via Fax

Our fax machines are available 24 hours a day. If you place an order over a weekend or on a national holiday, your order will be processed the following business day. All of our standard terms and conditions will still apply to your order. Our goal is to be able to enter all faxed orders the same day they are received. Once we enter your order into our system we will fax or email you a confirmation of your order.
When placing a fax order, you may want to just copy the order form on page 1-32, and fax to us for EZ ordering.

1-877-775-EASY(3279)



Mail Orders

If you wish to place an order with our company by mail please fill out your company's order form and drop it off at a mailbox or post office near you.

EZAutomation
4140 Utica Ridge Road
Bettendorf, IA 52722

Ordering through VAR (Value Added Reseller)

We are quite selective about hiring VARs to provide you Local support. We train them and certify them. We expect a very high degree of service from them on order processing and deliveries. However, if you feel more comfortable dealing directly with the factory, please do so. Our technical support is available to all EZ Family products irrespective of where you bought the product.

Legal Disclaimer/Notice

If goods herein being purchased are being purchased for purposes of export, purchaser must obtain from the Federal Government certain export documentation before shipping to a foreign country. In addition, manufacturer's warranties for exported goods may vary or be null and void. If you have any questions, please inquire.

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Shipping Information

Shipping Carriers

Standard delivery is via UPS Ground. If you would like to use a carrier other than UPS please indicate which carrier you prefer on your order and specify the shipment method you wish to use (options shown below). Prepaid freight charges will be added to the invoices. Our available carriers are:

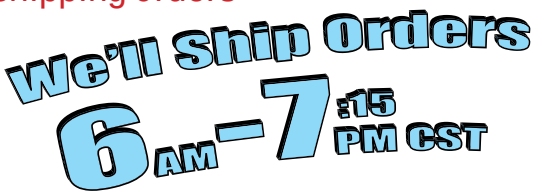
• FedEx • UPS • DHL

Shipment Methods

Ground delivery time is based on how far away your location is in relation to Bettendorf, IA. Faster deliveries are available with the following options:

• Next Day Air
• Two Day Air
• Three Day Air
• Early AM
• Saturday

Shipping Orders



As a general rule of thumb; all received orders that are ground or next day and come in before our shipping deadline of 7:15 p.m. CST, will be shipped on the same business day. Any orders received after the shipping deadline will be shipped out the following business day. Any new customers wishing to open a credit account with us will need to allow up to two working business days for credit verification. **Existing EZSeries Touchpanel customers can obtain open credit the same day.**

In order to take advantage of our same day shipping guarantee, your order must be paid by credit card or you must have an open credit account with our company that is current and in good standing. If your payment by credit card is declined, your open credit account with our company is past due, or your order amount exceeds your credit limit, there is the possibility that your order may be delayed.

Insurance

Since it is our policy to ship all of our goods FOB Bettendorf, IA, the risk of loss transfers to you once we deliver the goods to the carrier of your choice. To ensure against potential loss or unusual damage to your order, you have the option to purchase insurance at your expense. If you are interested in purchasing insurance for your shipment please ask our customer service representative to calculate the cost for you when you are finished placing your order. The cost for the insurance will be added on to your invoice if you decide to purchase it.

Shipment Inquiries

If you believe that your shipment has been delayed or was incomplete upon arrival, please take into consideration the following items before you call to inquire about your order:

• Allow a sufficient amount of time for your shipment to arrive. Please be aware that various carriers schedule multiple shipments which may delay your shipments. This pertains particularly to overnight packages. If you have reason to believe that your shipment has indeed been delayed you can track your order on-line by accessing our shipment tracking feature.
• Air shipments to Canada have the potential to be delayed for a longer period of time due to unforeseen delays originating from customs.
• It may be beneficial to notify your receiving department of the delayed shipment. There are times when receiving may not have had the opportunity to check the shipment in yet or the shipment is merely waiting in receiving to be delivered to the designated party.
• Please be sure to complete a thorough inspection of all the packages you receive to ensure that you locate any small items that may be concealed by the packing material.
• It would be in your best interest to inspect all deliveries immediately upon arrival. Please notify us within 48 hours of receipt of your order for any suspected shortages or discrepancies so that we may resolve the issue in a timely matter.



Shipping and Handling Charges

Shipping charges are calculated based on a flat fee per order value and any additional special surcharges. Please refer to the Shipping Chart and the notations on the chart, located below, to calculate shipping charges through UPS.

Rates	Order Value					
Shipment type	$0 - <$100	$100 - <$200	$200 - <$300	$300 - <$500	$500 - <$1000	$1000+
Ground	$5	$10	$15	$0	$0	$0
3-day Air	$10	$15	$20	$25	$30	Call or check website for quote
2-day Air	$15	$20	$25	$30	$35	
Next-day Air	$25	$30	$35	$40	$45	
Expedited Freight	$95 surcharge for each heavy item, in addition to normal shipping charges, applicable to large marquees. Check with our customer service or on the Web.					

Notes: Dollar value of software is not included from order value for determining shipping charges.
These charges do not apply to shipments to Canada, Alaska or Hawaii.
Add $7.00 surcharge for COD shipment. There is no COD shipment to Canada.
Add $7.00 handling charge for all shipments to Canada regardless of the dollar value.
Add $25.00 surcharge for Early AM delivery, $10.00 for Saturday delivery and $7.00 for delivery to Puerto Rico.

Shipping Information

Notes on Delivery

Please make note of the following guidelines, restrictions and/or exceptions on delivery times:

- All shipments depend upon stock availability.
- No deliveries are made to P.O. boxes.
- Delivery times are based upon freight carriers' policies and procedures. We cannot guarantee delivery times.
- Air services may vary by zip code.
- Timely delivery of air shipments to Canada cannot be guaranteed due to potential delay in customs.

Notes on Same-day shipping deadlines

- Same-day shipping only applies to UPS shipments.
- For same-day shipping, place order before 7:15pm CST.
- We do not ship on Saturday, Sunday or holidays.



Payment Options

Credit Accounts

Purchase orders are accepted by our company by customers who have an approved account with us. If you are interested in setting up an open credit account with us; you can get the process started for your approval with your first order. You can ask for credit application from our Customer service, that you can fill out and fax over to our accounting department. If you are placing your first order via our web site; you must complete the on-line credit application.

Credit Account Terms

Orders are invoiced the day of shipment with our credit account terms being Net 30 days. Our shipping terms are FOB from the city of Bettendorf, IA with freight prepaid and included on the invoice. All accounts are payable in full within 30 days of the date of invoice.

You will need to reinstate your account if you wish to place an order on an account that has been inactive for a period of time of one year or longer. In order to verify your credit information; it may take up to two business days to process your account information.

Maintaining our competitive prices and offering our exceptional customer service and tech support is all dependent on our customers keeping their account balances current. In the event that your account exceeds the 30 day payable time frame; your account will be subject to interest charges of 1.5 percent per month (18% APR) on the remaining unpaid balance where allowable by law, as well as attorney's fees, court costs, and other costs of collections. **If EZAutomation chooses not to collect late payment fee under certain circumstances for certain invoices, it expressly does not waive its right to collect late payment charge on other invoices.** Our company has the right to suspend credit accounts without notice.

Credit Card

We accept the following major credit cards: VISA, MasterCard, & American Express. All orders that are being paid for, using a major credit card must be approved prior to shipment. The response time will be dependent on the credit card verification process so it is imperative to have your order ready before 7:00 p.m. CST in order for us to be able to meet the shipping deadline. In the event that a problem arises, we will contact you immediately, by phone or e-mail, to advise you of the delay and the details of the problem which will in turn minimize the delay of your shipment.

Wire Transfer

We offer the option of payment by wire transfer for larger orders. For further details regarding the option of payment by wire transfer, please call your CSR.

Terms and Conditions

EZAutomation's terms and conditions apply to all orders and we do not allow any deviation from our terms of agreement.

Returns, Warranty and Purchase Agreement

30-Day Money-Back Return

There is a 30-day money-back guarantee on all of our products which begins 10 days after the date of the invoice. This allotted time period gives you plenty of time to receive and inspect your order and ensure that it was shipped correctly. If you should decide to return the product back to EZAutomation within the 30 day period, you must return the products in their original boxes and in the same condition they were received in.

The following guidelines apply to returns subject to our 30 day money back policy:

1. Once you have requested an RMA for your order we will fax or e-mail it to you. Please place it inside a clear packing list envelope so that the return address is clearly visible.
2. Please do not mark or write on the original product boxes as this will incur refurbishing fees.
3. Products need to be returned in the original boxes they came in and in the same condition you received them in. You should include all original documentation, cables, and other components included with the original parts shipment.
4. Shipments should be in an appropriate shipping container to avoid product damage. See "Limits of Liability" below.
5. It is imperative that your return includes only the products that are issued on the RMA. Any other products that are sent without approval will be returned to you.
6. Once you receive the RMA it is important that you return the products within two weeks of the issue date to qualify for a refund or credit.
7. The intent of EZAutomation's 30-day money back return policy is for our customers to allow checking out our products for a particular new application. EZAutomation reserves the right to either decline a 30-day money back return or charge a restocking fee if EZAutomation, in its sole discretion, determines the requested return to be outside the intent of this policy.

Shipments not following the above procedures may be returned to sender. Restocking and refurbishing charges may incur.

Remanufactured products

If you are interested in saving money on your next purchase with EZAutomation, you may find that our remanufactured parts may be the solution you are looking for. These select re-manufactured parts are only available to our U.S. and Canadian customers. We offer a 20% discount off of our catalog prices of any items that are available and we will give you a full 1-year warranty from the date of purchase against defects and workmanship. (No 30-day money-back returns apply for this offer.)

The products are offered on a "first come, first serve" basis while supplies last. Please visit our on-line website to view the availability of the products you are interested in and to access the convenience of ordering on-line.

Limited Warranty Policy

To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and usually change with time. It is your responsibility to determine which codes should be followed, and to verify that the equipment, installation and operation are in compliance with the latest revision of these codes.

At a minimum, you should follow all applicable sections of the National Fire Code, National Electrical Code, and the codes of the National Electrical Manufacturers Association (NEMA). There may be local regulatory or government offices that can also help determine which codes and standards are necessary for safe installation and operation.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not assume any responsibility for your product design, installation or operation.

Our products are not fault-tolerant and are not designed or intended for use as on-line control equipment in hazardous environments requiring fail-safe performance, such as in operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, direct life support machines, weapons systems, clutch control systems on presses, in which the failure of the product could lead directly to death, personal injury or severe physical or environmental damage.

This catalog contains many product specifications, wiring diagrams, and other information. You should not use this document for installation, operation or troubleshooting of any equipment. Always consult the appropriate product manual prior to using the equipment. If you have any questions regarding the installation or operation of the equipment, or if you need additional information, please call our Tech Support.

It is expressly understood by customer that product installation manual is only a guide recommended by EZAutomation. The ultimate responsibility for proper installation and operation lies with the customer.

Limits of Liability

Although we may initially issue a return material authorization number, it does not guarantee that you will receive a refund or a replacement. If a refund is granted to you and then we find out that the problem originated due to "customer abuse" we will take action to reverse the credit and notify you immediately. EZAutomation does not accept responsibility or issue credit for products damaged in transit for any reason. It is highly recommended that you ensure the product is properly packaged for shipment and that you insure the item, at your expense, for the amount of the potential credit that you are seeking.

Limited Warranty Policy

New Product Warranty

As to Products sold to Customer hereunder, EZAutomation, shall not be deemed to be held or obligated or accountable upon or under any warranties or guaranties express, or implied, statutory, by operation of the law, or otherwise, in any manner or form, beyond the express warranty that the Products (a) will conform to the description contained in the Manual and (b) will be free from defects in the material and workmanship, under normal use and service when correctly installed and maintained, for a period of TWO (2) years from EZAutomation's tender of delivery to Customer. EZAUTOMATION HEREBY EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING THE WARRANTY OF MERCHANTABILITY. EZAutomation's liability under any warranty is limited solely (at EZAutomation's discretion) to replacing or repairing Products which become defective during the warranty period. Customer shall (1) notify EZAutomation promptly in writing of any claims, and (2) provide EZAutomation with an opportunity to inspect and test Products claimed to be defective. In no event shall EZAutomation be liable for any defective Products if examination discloses that the defective condition of such Products was caused by misuse, abuse, improper installation or application, improper maintenance or repair, disassembly, alternation, accident or negligence in use, improper temperature, humidity or other environmental condition, storage, transportation or handling. Customer hereby expressly agrees to extend a Product warranty to its customers which is in substance and scope, identical to the warranty provided by EZAutomation in this paragraph.

Product Repair Warranty

As to all factory-made repairs, conversions and modifications, EZAutomation shall not be deemed to be held or be obligated or accountable under any warranties or guaranties express, or implied, statutory, by operation of the law, or otherwise in any manner or form, beyond the express warranty that the repairs, conversions, and or modifications will be free from defects in workmanship, under normal use and service when correctly installed and maintained, for a period of ninety (90) days from EZAutomation's tender of delivery to Customer. EZAUTOMATION HEREBY EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING THE WARRANTY OF MERCHANTABILITY. EZAutomation's liability under any such warranty is limited solely (at EZAutomation's discretion) to replacing or repairing the Product or Product component which is the subject of the specific repair, conversion and/or modification. In the event that any such product or component becomes defective during the warranty period, Customer shall (1) notify EZAutomation promptly in writing of any claims, and (2) provide EZAutomation with an opportunity to inspect and test Products claimed to be defective. In no event shall EZAutomation be liable for any defective Products if examination discloses that the defective application, improper maintenance or repair disassembly, alternation, accident or negligence in use, improper temperature, humidity or other environmental condition, storage, transportation or handling. Customer hereby expressly agrees to extend a Product warranty to its customers which is, in substance and scope, identical to the warranty provided by EZAutomation in this paragraph.

Limitation on Liability for Consequential Damages Resulting from Product Malfunction

In the event that a Product or component malfunction leads to damages or injuries to the Product, the Customer's business, to the end-user's business, to other equipment, to a factory or place of business, or to employees or other persons, EZAutomation's liability shall be limited solely to repair or replacement of parts of the Product or component. EZAutomation shall not be liable for such damages or injuries, provided, however, that if a court of competent jurisdiction shall find as a matter of law that any clause of this paragraph is unconscionable, it is agreed that our liability shall be limited solely to a U.S. dollar amount equal to the cost of the malfunctioning product to Customer, less freight and insurance if included in Customer's invoice price and less any depreciation deductions or investment tax credits taken by Customer or another purchaser or end-user with regard to such Product on your or his income taxes. The remedies provided for herein shall be exclusive and shall be Customer's sole remedies.

Defective Deliveries: Revocation of Acceptance

Customer will give EZAutomation notice in writing of any objections to incomplete delivery or deliveries of defective Products within ten (10) days after delivery thereof. EZAutomation will promptly undertake to remedy same in such manner as may be appropriate. No Products shall be returned to EZAutomation without EZAutomation's prior written consent. Revocation of acceptance by Customer of the Products must also be in writing within ten (10) days after delivery of the Products to Customer.

Limitation of Authority

It is expressly understood between Customer and EZAutomation that this Agreement does not give Customer any right or authority to act for or represent EZAutomation or EZAutomation's affiliates or to pledge EZAutomation's credit or contract any liability whatsoever on EZAutomation's behalf. It is understood that this Agreement does not confer upon Customer any authority to warrant any Product sold hereunder, or to make any adjustments on EZAutomation's behalf in connection with Products sold by Customer without EZAutomation's express written consent.

Limited Warranty Policy

Limitation of Actions

No action for breach of the contract for the sale of EZAutomation products shall be commenced more than one year after the accrual of the cause of action thereof.

Warranty Service Procedures

Service and repair of EZAutomation's products is provided at the factory, at 4140 Utica Ridge Road, Bettendorf, Iowa 52722

The following procedures apply in all transactions involving service and repair of equipment under warranty.

Service at Customer's site is provided at Customer's expense. Charges for service calls are as per the applicable revision of the Field Service and School Rate Charges document, which can be obtained from EZAutomation's Customer Service.

All equipment returns to the factory for warranty repairs must be authorized by the Customer Service Department.

The cost of shipment of the Products from the Customer's site to the factory, is the Customer's responsibility. Products repaired under warranty shall be returned to Customer by regular surface transportation at EZAutomation's expense. Other modes of transportation requested by the Customer shall be at Customer's expense.

Products returned to EZAutomation without prior authorization will be refused.

Products returned to EZAutomation for warranty repairs with "Bill Recipient" shipping instructions will be refused unless prior arrangements have been made in writing with EZAutomation regarding payment of the inbound transportation costs.

It is imperative that customer fill out EZAutomation's Advanced Technical Analysis (ATA) form when requesting a Retum Material Authorization (RMA). Please note that an evaluation fee will applyfor all products returned that are found to be not defective in accordance with the published specifications.

Other Provisions

The remedies set forth in the Warranty Policy are the only remedies available to any person for breach of warranty. EZAutomation shall have no liability to any person or legal entity for indirect, incidental or consequential damages of any description, whether arising out of warranty or other contract, negligence or other tort or otherwise. EZAutomation further disclaims all responsibility for any problems, injuries or claims arising from misapplication of its products, and for uses of its products in a manner inconsistent with published specifications and operating instructions.

Notices

All notices that are required, or that may be given pursuant to this Agreement, shall be sent by registered or certified mail, return receipt requested, or by facsimile, to the addresses listed above or such other address and person as either or that parties may from time to time specify to the other in writing. A notice shall be deemed to have been given on the date of mailing or on the date of dispatch of a facsimile with confirmed answer-back.

Entire Agreement: Applicable Law

Purchases under this Agreement constitutes the entire understanding between the parties and replaces and supersedes any prior agreements between the parties. This Agreement may not be changed, modified or amended except by an instrument in writing signed by Customer and EZAutomation. This Agreement shall be interpreted for all purposes in accordance with the laws of the State of Iowa, and unless otherwise defined hereunder, all terms used herein which ore defined in the Iowa Uniform Commercial Code (the "Code") have the same meaning hereunder as in the Code.

Other Terms, Conditions and General Notices

This catalog contains references to other companies in the Automation field. Their company names, products and product trademarks are their sole property and we disclaim any proprietary interest in these trademarks and names. We also use published information on competitive products and are very careful about verifying this information before we put it in the catalog. If we have made an inadvertent mistake, please bring it to our attention and we will do our best to correct the mistake in a timely manner.

All EZAutomation products with a TM suffix are those products where we claim to have a trademark to be registered at appropriate time.

EZAutomation constantly strives to better our products and services and therefore we reserve the right to make changes to our products and terms and conditions of their sale, at any time without prior notice and without any obligation. EZAutomation also makes no representations or warranties, expressed, implied or statutory with respect to information in this catalog.

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PRICE LIST

Please check shipping code, STK = Stock Item, 3DAY = Ships in 3 business days

EZSeries Touchpanel Operator Interfaces

Part Number	Ship	Price
4" Monochrome		Page 3-61
EZ-S4M-FS: EZSeries Touchpanel operator interface with 3.8" STN Monochrome display, NEMA 4,4x (indoor), 48 cell resistive touch screen. All the serial drivers are supported (No hardware network drivers, No real-time clock, No flash card).	STK	$199
EZ-S4M-FE: EZSeries Touchpanel with, 3.8" STN Monochrome display, NEMA 4,4x (indoor), 48 cell resistive touch screen, Ethernet/IP interface. All the serial drivers are supported (No hardware network drivers, No real-time clock, No flash card).	STK	$299
3.5" TFT Color		Page 3-62
EZ-T4C-FS: EZSeries Touchpanel operator interface with 3.5" TFT Color display, NEMA 4,4x (indoor), 48 cell resistive touch screen.All the serial drivers are supported (No hardware network drivers, No real-time clock, No flash card).	STK	$299
EZ-T4C-FE: EZSeries Touchpanel with 3.5" TFT Color display, NEMA 4,4x (indoor), 48 cell resistive touch screen, Ethernet/IP interface. All the serial drivers are supported (No hardware network drivers, No real-time clock, No flash card).	STK	$399
6" White On Blue		Page 3-63
EZ-S6W-RS: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), with 48 cell resistive touch screen, 256 KB of RAM (non-expandable), and 20-30VDC operating range. All the serial drivers are supported and the panel does not provide support for Ethernet Option Cards.	STK	$369
EZ-S6W-RSU: EZSeries Touchpanel with Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 touch cells, 256 KB of RAM (non-expandable), and 20-30VDC operating range. Panel has Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP only and does NOT include support for serial drivers .	STK	$798
6" Monochrome		Page 3-64, 3-65
EZ-S6M-F: EZSeries Touchpanel operator interface with 5.7" STN Monochrome display, NEMA 4,4x (indoor), Bubble bezel, 48 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported.	STK	$479
EZ-S6M-FH: EZSeries Touchpanel with 5.7" STN Monochrome display, NEMA 4,4x (indoor), 48 touch cells, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	STK	$979
EZ-S6M-R: EZSeries Touchpanel operator interface with 5.7" STN Monochrome display, NEMA 4,4x (indoor), Bubble bezel, 48 cell resistive touch screen, 256 KB of RAM (non-expandable), and 20-30VDC operating range. All the serial drivers are supported and the panel does not provide support for Ethernet Option Cards.	STK	$399
EZ-S6M-ES: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 48 cell resistive touch screen, 256 KB of RAM (non-expandable), and 20-30VDC operating range. Only EZProtocols (for EZAutomation) are supported and the panel does not provide support for Ethernet Option Cards.	STK	$399
EZ-S6M-RS: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 48 cell resistive touch screen, 256 KB of RAM (non-expandable), and 20-30VDC operating range. All the serial drivers are supported only and the panel does not provide support for Ethernet Option Cards.	STK	$399
EZ-S6M-FS: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported.	STK	$449
EZ-S6M-FSC: EZSeries Touchpanel with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, CCLink interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,049
EZ-S6M-FSD: EZSeries Touchpanel with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, DeviceNet interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$1,049
EZ-S6M-FSE: EZSeries Touchpanel with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$1,049
EZ-S6M-FSH: EZSeries Touchpanel with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 touch cells, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,049
EZ-S6M-FSM: EZSeries Touchpanel with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, MODBUS interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,049
EZ-S6M-FSP: EZSeries Touchpanel with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Profibus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$1,049
EZ-S6M-FST: EZSeries Touchpanel with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 touch cells, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$849
EZ-S6M-FSU: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Universal Ethernet Port. Accepts optional 512K, 1MB, or 2 MB compact flash cards.	3DAY	$848
EZ-S6M-RMC: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Remote Monitoring & Control (RMC) card installed. Accepts optional 512K, 1MB, or 2 MB compact flash cards.	3DAY	$599
6" STN Color		Page 3-66, 3-67
EZ-S6C-F: EZSeries Touchpanel operator interface with 5.7" STN Color display, NEMA 4,4x (indoor) front, Bubble bezel, 48 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported.	STK	$699
EZ-S6C-FH: EZSeries Touchpanel with 5.7" STN Color display, NEMA 4,4x (indoor) front, Bubble bezel, 48 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,199
EZ-S6C-K: EZSeries Touchpanel operator interface with 5.7" STN Color display, NEMA 4,4x (indoor) front, Bubble bezel, 48 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Only DirectLOGIC PLC protocols (for Automation Direct) are supported.	STK	$699
EZ-S6C-KS: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Only DirectLOGIC PLC protocols (for Automation Direct) are supported.	STK	$649
EZ-S6C-FS: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported.	STK	$649
EZ-S6C-FSC: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, CCLink interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,299
EZ-S6C-FSD: EZSeries Touchpanel with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, DeviceNet interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$1,299
EZ-S6C-FSE: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$1,299
EZ-S6C-FSH: EZSeries Touchpanel with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 touch cells, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,299
EZ-S6C-FSM: EZSeries Touchpanel with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, MODBUS Plus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,299
EZ-S6C-FSP: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Profibus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$1,299
EZ-S6C-FST: EZSeries Touchpanel with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$1,069
EZ-S6C-FSU: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Universal Ethernet Port. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Does NOT include support for serial drivers .	3DAY	$1,098
EZ-S6C-RMC: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Remote Monitoring & Control (RMC) card installed. Accepts optional 512K, 1MB, or 2 MB compact flash cards.	3DAY	$799
6" TFT Color		Page 3-68
EZ-T6C-FS: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported.	STK	$769

EZSeries Touchpanel Operator Interfaces

Part Number	Ship	Price
EZ-T6C-FSC: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, CCLink interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,499
EZ-T6C-FSD: EZSeries Touchpanel with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, DeviceNet interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$1,499
EZ-T6C-FSE: EZSeries Touchpanel with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$1,499
EZ-T6C-FSH: EZSeries Touchpanel with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 touch cells, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,499
EZ-T6C-FSM: EZSeries Touchpanel with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, MODBUS Plus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,499
EZ-T6C-FSP: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Profibus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$1,499
EZ-T6C-FST: EZSeries Touchpanel with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$1,269
EZ-T6C-FSU: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Universal Ethernet Port. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Does NOT include support for serial drivers .	3DAY	$1,398
EZ-T6C-RMC: EZSeries Touchpanel operator interface with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB) and 20-30VDC operating range, Remote Monitoring & Control (RMC) card installed. Accepts optional 512K, 1MB, or 2 MB compact flash cards.	3DAY	$919

8" STN Color

Page 3-69

EZ-S8C-F: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported.	STK	$849
EZ-S8C-FC: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, CCLink interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,449
EZ-S8C-FD: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, DeviceNet interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$1,449
EZ-S8C-FE: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$1,499
EZ-S8C-FH: EZSeries Touchpanel with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,449
EZ-S8C-FM: EZSeries Touchpanel with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS Plus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,449
EZ-S8C-FP: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Profibus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$1,499
EZ-S8C-FT: EZSeries Touchpanel with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$1,399
EZ-S8C-FU: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Universal Ethernet Port. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Does NOT include support for serial drivers .	3DAY	$1,248
EZ-S8C-FS: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported. .	STK	$849
EZ-S8C-FSC: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, CCLink interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,449
EZ-S8C-FSD: EZSeries Touchpanel with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, DeviceNet interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$1,449
EZ-S8C-FSE: EZSeries Touchpanel with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$1,499
EZ-S8C-FSH: EZSeries Touchpanel with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 touch cells, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,449
EZ-S8C-FSM: EZSeries Touchpanel with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS Plus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,449
EZ-S8C-FSP: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Profibus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$1499
EZ-S8C-FST: EZSeries Touchpanel with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$1,399
EZ-S8C-FSU: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Universal Ethernet Port. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Does NOT include support for serial drivers .	3DAY	$1,248
EZ-S8C-RMC: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" STN Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Remote Monitoring & Control (RMC) card installed. Accepts optional 512K, 1MB, or 2 MB compact flash cards.	3DAY	$999

8" TFT Color

Page 3-70

EZ-T8C-F: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported. .	STK	$949
EZ-T8C-FC: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, CCLink interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,799
EZ-T8C-FD: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, DeviceNet interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$1,799
EZ-T8C-FE: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$1,799
EZ-T8C-FH: EZSeries Touchpanel with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,799
EZ-T8C-FM: EZSeries Touchpanel with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS Plus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,799
EZ-T8C-FP: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Profibus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$1,799
EZ-T8C-FT: EZSeries Touchpanel with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$1,799
EZ-T8C-FU: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Universal Ethernet Port. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Does NOT include support for serial drivers .	3DAY	$1,698
EZ-T8C-RMC: EZSeries Touchpanel operator interface with Slim Bezel, 8.2" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Remote Monitoring & Control (RMC) card installed. Accepts. Accepts optional 512K, 1MB, or 2 MB compact flash cards.	3DAY	$1,099

EZSeries Touchpanel Operator Interfaces

Part Number	Ship	Price
10" TFT Color		Page 3-71
EZ-T10C-F: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported. .	STK	$1,499
EZ-T10C-FC: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, CCLink interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$2,199
EZ-T10C-FD: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, DeviceNet interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$2,199
EZ-T10C-FE: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$2,199
EZ-T10C-FH: EZSeries Touchpanel with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 touch cells, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$2,199
EZ-T10C-FM: EZSeries Touchpanel with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS Plus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$2,199
EZ-T10C-FP: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Profibus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$2,199
EZ-T10C-FT: EZSeries Touchpanel with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$2,199
EZ-T10C-FU: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor) front, 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Does NOT include support for serial drivers .	3DAY	$1,998
EZ-T10C-FS: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range. Accepts optional 512K, 1MB, or 2 MB compact flash cards. All the serial drivers are supported. .	STK	$1,499
EZ-T10C-FSC: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, CCLink interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$2,199
EZ-T10C-FSD: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, DeviceNet interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$2,199
EZ-T10C-FSE: EZSeries Touchpanel with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$2,199
EZ-T10C-FSH: EZSeries Touchpanel with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 touch cells, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$2,199
EZ-T10C-FSM: EZSeries Touchpanel with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS Plus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$2,199
EZ-T10C-FSP: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Profibus interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$2,199
EZ-T10C-FST: EZSeries Touchpanel with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 512K, 1MB, or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$2,199
EZ-T10C-FSU: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Universal Ethernet Port. Accepts optional 512K, 1MB, or 2 MB compact flash cards. Does NOT include support for serial drivers .	3DAY	$1,998
EZ-T10C-RMC: EZSeries Touchpanel operator interface with Slim Bezel, 10.4" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 512 KB of RAM (expandable to 1.5MB), and 20-30VDC operating range, Remote Monitoring & Control (RMC) card installed. Accepts optional 512K, 1MB, or 2 MB compact flash cards.	3DAY	$1,649
15" TFT Color		Page 3-72
EZ-T15C-FS: EZSeries Touchpanel operator interface with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range. Accepts optional 1MB or 2 MB compact flash cards. All the serial drivers are supported.	STK	$2,199
EZ-T15C-FSC: EZSeries Touchpanel operator interface with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, CCLink interface. Accepts optional 1MB or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$2,999
EZ-T15C-FSD: EZSeries Touchpanel operator interface with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, DeviceNet interface. Accepts optional 1MB or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$2,999
EZ-T15C-FSE: EZSeries Touchpanel operator interface with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, Ethernet/IP interface. Accepts optional 1MB or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Ethernet/IP.	3DAY	$2,999
EZ-T15C-FSH: EZSeries Touchpanel with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, A-B DH+ or Remote I/O interface. Accepts optional 1MB or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$2,999
EZ-T15C-FSM: EZSeries Touchpanel operator interface with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, MODBUS Plus interface. Accepts optional 1MB or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS Plus.	3DAY	$2,999
EZ-T15C-FSP: EZSeries Touchpanel operator interface with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, Profibus interface. Accepts optional 1MB or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$2,999
EZ-T15C-FST: EZSeries Touchpanel with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, MODBUS TCP/IP interface. Accepts optional 1MB or 2 MB compact flash cards. The panel also provides support for all the serial drivers when not communicating via MODBUS TCP/IP.	3DAY	$2,999
EZ-T15C-FSU: EZSeries Touchpanel operator interface with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, Universal Ethernet Port. Accepts optional 1MB or 2 MB compact flash cards. Does NOT include support for serial drivers .	3DAY	$2,698
EZ-T15C-RMC: EZSeries Touchpanel operator interface with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell resistive touch screen, 1MB of RAM (expandable to 2MB), and 20-30VDC operating range, Remote Monitoring & Control (RMC) card installed Accepts optional 1MB or 2 MB compact flash cards.	3DAY	$2,349

EZSeries CE Touchpanel

6" White On Blue		Page 3-63
EZC-S6W-E: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN White on Blue display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. All the serial drivers are supported.	3DAY	$399
EZC-S6W-EU: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN White on Blue display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, and 20-30VDC operating range. Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP. No support for serial drivers.	3DAY	$898
6" Monochrome		Page 3-65
EZC-S6M-E: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. All the serial drivers are supported.	3DAY	$449
EZC-S6M-ED: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. DeviceNet interface. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$1,799
EZC-S6M-EH: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. A-B Data Highway Plus (DH+) or Remote I/O interface. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,399

EZSeries CE Touchpanel

Part Number	Ship	Price
EZC-S6M-EM: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. MODBUS Plus interface. The panel also provides support all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,399
EZC-S6M-EP: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Profibus interface. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$1,799
EZC-S6M-EC: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. CCLink interface. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,399
EZC-S6M-EU: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, and 20-30VDC operating range. Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP. No support for serial drivers.	3DAY	$1,298
6" STN Color		Page 3-67
EZC-S6C-E: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. All the serial drivers are supported.	3DAY	$649
EZC-S6C-ED: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. DeviceNet interface. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$1,899
EZC-S6C-EH: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. A-B Data Highway Plus (DH+) or Remote I/O interface. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,499
EZC-S6C-EM: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. MODBUS Plus interface. The panel also provides support all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,499
EZC-S6C-EP: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Profibus interface. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$1,899
EZC-S6C-EC: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. CCLink interface. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,499
EZC-S6C-EU: EZSeries CE Touchpanel with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, and 20-30VDC operating range. Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP. No support for serial drivers.	3DAY	$1,398
6" TFT Color		Page 3-68
EZC-T6C-E: EZSeries CE Touchpanel with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. All the serial drivers are supported.	3DAY	$769
EZC-T6C-ED: EZSeries CE Touchpanel with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. DeviceNet interface. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$2,299
EZC-T6C-EH: EZSeries CE Touchpanel with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. A-B Data Highway Plus (DH+) or Remote I/O interface. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,899
EZC-T6C-EM: EZSeries CE Touchpanel with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. MODBUS Plus interface. The panel also provides support all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,899
EZC-T6C-EP: EZSeries CE Touchpanel with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Profibus interface. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$2,299
EZC-T6C-EC: EZSeries CE Touchpanel with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. CCLink interface. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,899
EZC-T6C-EU: EZSeries CE Touchpanel with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, and 20-30VDC operating range. Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP. No support for serial drivers.	3DAY	$1,798
8" STN Color		Page 3-69
EZC-S8C-E: EZSeries CE Touchpanel with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. All the serial drivers are supported.	3DAY	$849
EZC-S8C-ED: EZSeries CE Touchpanel with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. DeviceNet interface. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$2,399
EZC-S8C-EH: EZSeries CE Touchpanel with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. A-B Data Highway Plus (DH+) or Remote I/O interface. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$1,999
EZC-S8C-EM: EZSeries CE Touchpanel with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. MODBUS Plus interface. The panel also provides support all the serial drivers when not communicating via MODBUS Plus.	3DAY	$1,999
EZC-S8C-EP: EZSeries CE Touchpanel with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Profibus interface. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$2,399
EZC-S8C-EC: EZSeries CE Touchpanel with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. CCLink interface. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$1,999
EZC-S8C-EU: EZSeries CE Touchpanel with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP. No support for serial drivers.	3DAY	$1,898
8" TFT Color		Page 3-70
EZC-T8C-E: EZSeries CE Touchpanel with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. All the serial drivers are supported.	3DAY	$949
EZC-T8C-ED: EZSeries CE Touchpanel with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. DeviceNet interface. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$2,599
EZC-T8C-EH: EZSeries CE Touchpanel with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. A-B Data Highway Plus (DH+) or Remote I/O interface. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$2,199
EZC-T8C-EM: EZSeries CE Touchpanel with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. MODBUS Plus interface. The panel also provides support all the serial drivers when not communicating via MODBUS Plus.	3DAY	$2,199

EZseries CE Touchpanel

Part Number	Ship	Price
EZC-T8C-EP: EZSeries CE Touchpanel with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Profibus interface. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$2,599
EZC-T8C-EC: EZSeries CE Touchpanel with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. CCLink interface. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$2,199
EZC-T8C-EU: EZSeries CE Touchpanel with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, and 20-30VDC operating range. Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP. No support for serial drivers.	3DAY	$2,098
10" TFT Color		Page 3-71
EZC-T10C-E: EZSeries CE Touchpanel with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. All the serial drivers are supported.	3DAY	$1,499
EZC-T10C-ED: EZSeries CE Touchpanel with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. DeviceNet interface. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$2,899
EZC-T10C-EH: EZSeries CE Touchpanel with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. A-B Data Highway Plus (DH+) or Remote I/O interface. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$2,499
EZC-T10C-EM: EZSeries CE Touchpanel with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. MODBUS Plus interface. The panel also provides support all the serial drivers when not communicating via MODBUS Plus.	3DAY	$2,499
EZC-T10C-EP: EZSeries CE Touchpanel with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Profibus interface. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$2,899
EZC-T10C-EC: EZSeries CE Touchpanel with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. CCLink interface. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$2,499
EZC-T10C-EU: EZSeries CE Touchpanel with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP. No support for serial drivers.	3DAY	$2,398
15" TFT Color		Page 3-72
EZC-T15C-E: EZSeries CE Touchpanel with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. All the serial drivers are supported.	3DAY	$2,199
EZC-T15C-ED: EZSeries CE Touchpanel with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. DeviceNet interface. The panel also provides support for all the serial drivers when not communicating via DeviceNet.	3DAY	$3,699
EZC-T15C-EH: EZSeries CE Touchpanel with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. A-B Data Highway Plus (DH+) or Remote I/O interface. The panel also provides support for all the serial drivers when not communicating via DH+ or Remote I/O.	3DAY	$3,299
EZC-T15C-EM: EZSeries CE Touchpanel with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. MODBUS Plus interface. The panel also provides support all the serial drivers when not communicating via MODBUS Plus.	3DAY	$3,299
EZC-T15C-EP: EZSeries CE Touchpanel with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Profibus interface. The panel also provides support for all the serial drivers when not communicating via Profibus.	3DAY	$3,699
EZC-T15C-EC: EZSeries CE Touchpanel with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. CCLink interface. The panel also provides support for all the serial drivers when not communicating via CCLink.	3DAY	$3,299
EZC-T15C-EU: EZSeries CE Touchpanel with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net 4.2 Professional Plus, Nema 4,4x (indoor) front, Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. Universal Ethernet Port built-in for Ethernet/IP, DF1 over Ethernet, Modbus TCP/IP, and GE SRTP. No support for serial drivers.	3DAY	$3,198

EZSeries Touchpanel, CE Touchpanel Software & Accessories

Part Number	Ship	Price
EZSeries Touchpanel Manual, Programming Software and Cables		Page 3-54
EZ-PANEL-M: Hardware and Installation manual for EZSeries Touchpanel operator interfaces	STK	$20
EZ-PGMCBL: EZSeries Touchpanel and EZCE Touchpanel programming software cable	STK	$20
EZ-PANELEDIT: EZSeries Touchpanel and EZCE Touchpanel Programming Software CD	STK	$99
EZC-TOUCHPANEL-M: Hardware and Installation manual for EZCE Touchpanel operator interfaces. Note: EZC-Touchpanel-M Hardware and User Manual included with every EZCE Touchpanel	3DAY	$20
EZSeries Touchpanel, EZSeries Textpanel, and EZCE Touchpanel Communication Cables		Page 3-54
EZ-CBL: 10' RS232C shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to EZPLC. 15 pin D-shell male connector to 9 pin D-shell male connector.	STK	$20
EZ-2CBL: 10' RS232C shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to DL05, DL06, DL105, DL205, D3-350 or D4-450 CPU. 15 pin D-shell male connector to RJ 12 modular connector.	STK	$20
EZ-2CBL-1: 10' RS232C shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to a DL06, D2-250(-1) or D2-260 (bottom port) CPU. 15 pin D-shell male connector to 15 pin male HD.	STK	$20
EZ-3CBL: 10' RS232C shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to a D3-340 CPU top or bottom port. 15 pin D-shell male connector to RJ11 modular connector.	STK	$20
EZ-4CBL-1: 10' RS232C shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel panel to DL 405 (top port) CPU. 15 pin D-shell male connector to 15 pin D-shell male connector.	STK	$20
EZ-4CBL-2: 10' RS 232C shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to a D2-DCM, D3-350 (bottom port), a D3-232-DCU installed on D3-333 or D3-340, or DL 405 (bottom point) CPU. 15-pin D-shell male to 25 pin D-shell male.	STK	$20
EZ-MLOGIX-CBL: 6' shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to an AB Micrologix 1000, 1200, or 1500 CPU. 15 pin D-shell male connector to 8 pin DIN connector.	STK	$25
EZ-SLC-232-CBL: 10' RS232C shielded cable to connect any EZSeries Touchpanel & Textpanel to an AB SLC 5/03, 5/04 or 5/05 CPU with DF-1 port. 15 pin D-shell male connector to 9 pin D-shell female connector.	STK	$20
EZ-PLC5-232-CBL: 10' RS232C shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to an AB PLC5 CPU with DF1 port. 15 pin D-shell male connector to 25 pin D-shell male connector.	STK	$20
EZ-DH485-CBL: 10' RS232C shielded cable to connect any EZSeries Touchpanel or CE Touchpanel to an AB SLC 500 CPU with a DH485 port and 747-A/C Module .	STK	$22
EZ-90-30-CBL: 10' RS232C shielded cable to connect any EZSeries Touchpanels & Textpanel to GE Fanuc Series 90/30, 90/70 serial port using SNPX protocol. 15 pin D-shell male connector to 15 pin D-shell male connector.	STK	$20
EZ-MITSU-CBL: 10' RS422 shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to Mitsubishi FX series CPU. 15 pin D-shell male connector to 25 pin D-shell male connector.	STK	$20
EZ-MITSU-CBL-1: 10' RS422 shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to Mitsubishi FX series CPU. 15 pin D-shell male connector to 8 pin min. din.	STK	$20
EZ-S7MPI-CBL: 10' shielded cable to connect any EZSeries Touchpanel, Textpanel or CE Touchpanel to Siemens Simatic S7 series CPU. 15 pin D-shell male connector to 9 pin D-shell connector.	STK	$20
EZ-OMRON-CBL: 10' RS232C shielded cable to connect any EZSeries Touchpanels & Textpanel to Omron C200 or C500 with Hostlink protocol. 15 pin D-shell male connector to 25 pin D-shell male connector.	STK	$20
EZ-ARCOL-CBL: 10' RS232C shielded cable to connect anyEZSeries Touchpanel, Textpanel or CE Touchpanel to Aromat PLC. 15 pin D-Shell male connector to 5 pin mini DIN male connector.	STK	$20
EZ-CTRLUNI-CBL: 10' RS422 shielded cable to connect any EZTouch or EZSeries CE Touchpanel to Control Techniques Unidrive 4-wire. 15 pin D-Shell male connector to 9 pin D-shell female connector.	STK	$20

EZSeries Touchpanel, CE Touchpanel Software & Accessories

Part Number	Ship	Price
EZ-CTRLUNI-CBL-1: 10' RS485 shielded cable to connect any EZTouch or EZSeries CE Touchpanel to Control Techniques Unidrive 2-wire. 15 pin D-Shell male connector to 9 pin D-shell female connector.	STK	$20
EZ-CTCBI-CBL: 10' RS232 shielded cable to connect any EZTouch or EZSeries CE Touchpanel to Control Technology Corp (CTC) PLC. 15 pin D-Shell male connector to RJ12 connector.	STK	$20
EZ-IDECM-CBL: 10' RS485 shielded cable to connect any EZTouch or EZSeries CE Touchpanel to IDEC Micro 3 PLC. 15 pin D-Shell male connector to 8 pin mini-din connector.	STK	$20
EZ-MODUNI-CBL: 10' RS485 shielded cable to connect any EZTouch or EZSeries CE Touchpanel to Modicon Uni-Telway Telemecanique TSX 37 Micro PLC. 15 pin D-Shell male connector to 8 pin mini DIN connector.	STK	$20
EZ-MODRTU-CBL: 10' RS232C shielded cable to connect anyEZSeries Touchpanel, Textpanel or CE Touchpanel to Modicon Modbus RTU. 15 pin D-Shell male connector to 9 pin D-shell male connector.	STK	$20
EZ-S7200-CBL: 10' RS485 shielded cable to connect any EZTouch or EZSeries CE Touchpanel to Siemens S7 200 PLC. 15 pin D-Shell male connector to 9 pin D-shell male connector.	STK	$20
EZ-SYMAX-CBL: 10' RS422 shielded cable to connect EZTouch, or EZSeries CE Touchpanel to Square-D symax. 15 pin D-Shell male connector to 9 pin D-shell male connector.	STK	$20
EZ-TX505-CBL: 10' RS232C shielded cable to connect anyEZSeries Touchpanels or Textpanel connect to Texas Instrument 505 Series PLC. 15 pin D-Shell male connector to 9 pin D-shell female connector.	STK	$20
EZ-IDECS-CBL: 10' RS232C shielded cable to connect anyEZSeries Touchpanel, Textpanel or CE Touchpanel to IDEC Micro Smart PLC. 15 pin D-Shell male connector to 8 pin mini DIN male connector.	STK	$20
EZ-TX545-CBL: 10' RS422 shielded cable to connect anyEZSeries Touchpanel, Textpanel or CE Touchpanel to Texas Instrument 545-1102 series PLC. 15 pin D-Shell male connector to 9 pin D-shell male connector.	STK	$20
EZ-TX545-CBL1: 10' RS422 shielded cable to connect anyEZSeries Touchpanel, Textpanel or CE Touchpanel to Texas Instrument 545-1104 PLC. 15 pin D-Shell male connector to 9 pin D-shell female connector.	STK	$20
EZ-MODRJ-CBL: 10' RS232 shielded cable to connect any EZTouch or EZSeries CE Touchpanel to Modicon Micro PLC. 15 pin D-Shell male connector to RJ45 connector.	STK	$20
EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer Accessories		Page 10-10
EZ-PANEL-M: Hardware and Installation manual for EZSeries Touchpanel operator interfaces. This manual is included with every panel.	STK	$20
EZC-TOUCHPANEL-M: Hardware and Installation manual for EZSeries CE Touchpanel operator interfaces. This manual is included with every panel.	STK	$20
EZTCC-COMPUTER-M: Hardware and Installation manual for EZSeries CE Touch Computer. Note: Hardware and Installation included with every CE Computer.	STK	$20
EZ-RAM-1: 512K RAM Card for EZSeries Touchpanel operator interfaces only.	STK	$50
EZ-RAM-2: 1MB expansion RAM card for EZSeries Touchpanel operator interfaces only.	STK	$97
EZ-FLASH-1: 512K flash memory card for non-volatile user-program storage for EZSeries Touchpanel operator interfaces only.	STK	$46
EZ-FLASH-2: 1MB flash memory card for non-volatile user-program storage for EZSeries Touchpanel operator interfaces only.	STK	$56
EZ-FLASH-3: 2MB flash memory card for non-volatile user-program storage for EZSeries Touchpanel operator interfaces only.	STK	$80
EZ-ETHERNET: Ethernet (10BaseT) communication interface card for EZSeries Touchpanel operator interfaces only. Works with H2 and H4-ECOM ethernet modules for Automation Direct's DL205 and DL405 PLCs (compatible with -F and -FS EZTouch operator interfaces only). Manual included with option card.	STK	$190
EZ-ETHERPLUS: ModBus TCP/IP Ethernet communication interface card for EZSeries Touchpanel operator interfaces only for 10BaseT network connection. Manual included with option card.	STK	$240
EZ-BAT: Replacement 1/2 AA, 3.6 volt lithium battery for EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$20
EZ-BRK-1: Optional DIN rail clips. Only for 6" models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer (package of 2).	STK	$15
EZ-COMCON3: 15-pin male D-sub connectors with terminal blocks, for connecting RS422 network cable to EZ Products	STK	$19
EZ-PANEL6-GSK: Replacement gasket for 6-inch EZSeries Touchpanel operator interface (standard, NON-SLIM) bezels only.	STK	$8
EZ-PANEL8-GSK: Replacement gasket for 8-inch EZSeries Touchpanel operator interface (standard, NON-SLIM) bezels only.	STK	$8
EZ-PANEL10-GSK: Replacement gasket for 10-inch EZSeries Touchpanel operator interface (standard, NON-SLIM) bezels only.	STK	$8
EZ-PANEL-STUDS: Spare mounting studs for for EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer panels. Comes in package of 8 with nuts.	STK	$8
EZ-6SLIMF-GSK: Replacement gasket for Slim Bezel 6 inch models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer.	STK	$8
EZ-8SLIMF-GSK: Replacement gasket for Slim Bezel 8 inch models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer.	STK	$25
EZ-10SLIMF-GSK: Replacement gasket for Slim Bezel 10 inch models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer.	STK	$30
EZ-15SLIMF-GSK: Replacement gasket for Slim Bezel 15 inch models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer.	STK	$34
EZ-COV6: Pack of 3 protective shields for 6 inch models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$20
EZ-COV8: Pack of 3 protective shields for 8 inch models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$34
EZ-COV10: Pack of 3 protective shields for 10 inch models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$38
EZ-COV15: Pack of 3 protective shields for 15 inch models of EZSeries Touchpanel, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$56

EZSeries Textpanel

EZ-220: EZSeries Textpanel with 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, built-in menu system with adjusting arrows, data scrolling, data setpoint and display, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, dynamic decimal point option with read/write messages, and 20-30 VDC operating range. All serial drivers supported.	STK	$169 Pg 4-14
EZ-220L: EZSeries Textpanel with 2 Line x 20 LARGE character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, built-in menu system with adjusting arrows, data scrolling, data setpoint and display, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, dynamic decimal point option with read/write messages, and 20-30 VDC operating range. All serial drivers supported.	STK	$219 Pg 4-14
EZ-420: EZSeries Textpanel with 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, built-in menu system with adjusting arrows, data scrolling, data setpoint and display, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, dynamic decimal point option with read/write messages, and 20-30 VDC operating range. All serial drivers supported.	STK	$189 Pg 4-14
EZ-220P: EZSeries Textpanel with 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, built-in menu system with adjusting arrows, data scrolling, data setpoint and display, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, dynamic decimal point option with read/write messages, and 20-30 VDC operating range. All serial drivers supported. EZ-TEXT-M manual included with the panel.	STK	$229 Pg 4-15
EZ-SP: EZText Setpoint Interface with 8 digit Numeric LED display, 16 character LCD display programmable with up to 256 data points with 16 character description per data point, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust for data and display, and 20-30 VDC operating range. All the serial drivers are supported.	STK	$229 Pg 4-16
VFD Models		
EZ-220V: EZSeries Textpanel with 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, built-in menu system with adjusting arrows, data scrolling, data setpoint and display, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, dynamic decimal point option with read/write messages, and 20-30 VDC operating range. All serial drivers supported.	STK	$269 Pg 4-14
EZ-220PV: EZSeries Textpanel with 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, built-in menu system with adjusting arrows, data scrolling, data setpoint and display, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, dynamic decimal point option with read/write messages, and 20-30 VDC operating range. All the serial drivers supported.	STK	$329 Pg 4-15
EZSeries Textpanel Manual, Programming Software, Cables and Accessories		Page 4-13
EZ-TEXT-M-E: Hardware Manual For All EZSeries Textpanels (EZ-220, EZ-420, EZ-220L, EZ-220P, EZ-220V, EZ-220V, and EZ-220PV) except EZText Setpoint Panels Note: Hardware and User Manuals Included with every EZSeries Textpanels	STK	$25
EZ-TEXT-SP-M-E: Hardware Manual for EZSeries Textpanel Setpoint panel (EZ-SP) Only. Note: Hardware and User Manuals Included with every EZSeries Textpanels	STK	$20
EZ-TEXTEDIT-E: Windows based Programming software for all EZSeries Textpanels. Requires Windows 95/98/NT or 2000. Manual and CD-ROM included	STK	$28
EZTEXT-PGMCBL: Programming cable for setup and programming for all EZSeries Textpanels. 2 m (6.56ft) RS232 cable with 15-pin D-shell male connector on one end and 9-pin D-shell female connector at the other end.	STK	$16
EZ-MULTIDROP-M: Hardware and Installation manual for EZ-Multiplexer. Included with every EZ-MULTIPLEXER purchase.	STK	$8
EZ-TEXT-S-GSK: Replacement gasket for small EZSeries Textpanels (EZ-220, EZ-420, EZ-220V)	STK	$8
EZ-TEXT-L-GSK: Replacement gasket for largel EZSeries Textpanels (EZ-220L, EZ-220P, EZ-SP, EZ-220PV)	STK	$9
EZ-BRK-2: Optional DIN Rail Clips for EZSeries Textpanels, package of 4	STK	$34

EZSeries Textpanel

Part Number	Ship	Price
EZ-TEXT-STUDS: Spare Mounting Studs, Four studs with nuts included in a package	STK	$8
EZ-COMCON3: 15-pin male D-sub connectors with terminal blocks for connecting RS422 network cable from EZSeries Touchpanel or EZSeries Textpanel	STK	$19
EZ-COMCON4: 9-pin female D-sub connectors with terminal blocks	STK	$19
EZ-TEXT-CORE: EZSeries Textpanel replacement ferrite core, package of two	STK	$15
EZ-TEXT-PWRTERM: EZSeries Textpanel replacement power terminal strip	STK	$12
EZSeries Textpanel Accessories		Page 4-16
EZ-MULTIDROP: Multiplexer for connecting up to 5 EZText panels to one PLC (panel to PLC connection is RS422 only). EZ-COMCON3 and EZ-COMCON4 communication kits are required to build a cable for any panel communicating to Multiplexer. EZ-MULTIDROP-M manual included with Multiplexer.	STK	$279

EZPLC

AC Powered EZPLC Snap-in I/O		
EZPLC-A-32: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$139 Pg 5-43
EZPLCJ-A-32: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, One communication port for RS232 (programming and HMI), 5 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$89 Pg 5-43
EZPLC-A-32E: EZPLC Snap-in I/O Enhanced base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (based on the type of EZIO modules utilized).	3DAY	$239 Pg 5-43
EZPLC-A-48: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$188 Pg 5-44
EZPLC-A-48E: EZPLC Snap-in I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$288 Pg 5-44
EZPLC-A-64: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$209 Pg 5-45
EZPLC-A-64E: EZPLC Snap-in I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$309 Pg 5-45
EZPLC-A-96: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$239 Pg 5-46
EZPLC-A-96E: EZPLC Snap-in I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$339 Pg 5-46
AC Powered EZPLC Screw-down I/O		
EZPLCP-A-32: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$159 Pg 5-43
EZPLCPJ-A-32: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, One communication port for RS232 (programming and HMI), 5 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$109 Pg 5-43
EZPLCP-A-32E: EZPLC Screw-down I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (based on the type of EZIO modules utilized).	3DAY	$259 Pg 5-43
EZPLCP-A-48: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$225 Pg 5-44
EZPLCP-A-48E: EZPLC Screw-down I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$325 Pg 5-44
EZPLCP-A-64: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$249 Pg 5-45
EZPLCP-A-64E: EZPLC Screw-down I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$349 Pg 5-45
EZPLCP-A-96: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$289 Pg 5-46
EZPLCP-A-96E: EZPLC Screw-down I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 96-120 VAC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$389 Pg 5-46
DC Powered EZPLC Snap-in I/O		
EZPLC-D-32: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$122 Pg 5-43
EZPLCJ-D-32: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, One communication port for RS232 (programming and HMI), 5 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$69 Pg 5-43
EZPLC-D-32E: EZPLC Snap-in I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (based on the type of EZIO modules utilized).	3DAY	$222 Pg 5-43
EZPLC-D-48: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$165 Pg 5-44
EZPLC-D-48E: EZPLC Snap-in I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$265 Pg 5-44
EZPLC-D-64: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$187 Pg 5-45
EZPLC-D-64E: EZPLC Snap-in I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$287 Pg 5-45

EZPLC

Part Number	Ship	Price
EZPLC-D-96: EZPLC Snap-in I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$219 Pg 5-46
EZPLC-D-96E: EZPLC Snap-in I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$319 Pg 5-46
DC Powered EZPLC Screw-down I/O		
EZPLCP-D-32: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$149 Pg 5-43
EZPLCPJ-D-32: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, One communication port for RS232 (programming and HMI), 5 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$89 Pg 5-43
EZPLCP-D-32E: EZPLC Screw-down I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for EZIO modules for a total of 32 I/O Max (based on the type of EZIO modules utilized).	3DAY	$249 Pg 5-43
EZPLCP-D-48: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$199 Pg 5-44
EZPLCP-D-48E: EZPLC Screw-down I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$299 Pg 5-44
EZPLCP-D-64: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	STK	$225 Pg 5-45
EZPLCP-D-64E: EZPLC Screw-down I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$325 Pg 5-45
EZPLCP-D-96: EZPLC Screw-down I/O base with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (programming and HMI) and RS422/485 (supports ASCII In/Out), built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$259 Pg 5-46
EZPLCP-D-96E: EZPLC Screw-down I/O base with built-in 10 baseT Ethernet with 32 Bit 40 MHz processor, 20-30 VDC power supply, 64K words total memory, two integrated communication ports for RS232 (Programming and HMI) and RS422/485 (supports ASCII In/Out), Built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used).	3DAY	$359 Pg 5-46

Communication Interface Modules (EZPLC Only)	Page 8-10, 8-37	
EZIO-LINK-CBL: Plug-in and removable terminal block cable. Sold separately. Pg 5-10	STK	$25
EZIO-LINK-RLY: 8 of 10 Amp Relays 1 Form C Pg 5-10	STK	$69
EZIO-LINK-EXT: 11-pin Extender Board. Pg 5-10	STK	$29
EZPLC-DEVICENET: DeviceNet slave communication interface card for EZPLC ONLY. 5 point removable terminal block	STK	$79
EZPLC-PROFIBUS: Profibus DP slave communication interface card for EZPLC ONLY. Standard 9-pin female D-sub connector allows baud rates up to 12MB with auto baud rate detection.	3DAY	$129

EZPLC Manual, Programming Software, Cables, and Accessories	Page 8-37	
EZPLC-M: Hardware User Manual For EZPLC - All Models. Note: EZPLCs are shipped WITHOUT User Manual. Sold separately	STK	$30
EZPLC-CM: Hardware User Manual For DeviceNet, Profibus, and Ethernet Options	STK	$25
EZPLC-EDIT: EZPLC Programming Software	STK	$49
EZP-PGMCBL: Programming Cable	STK	$20
EZPLC-BAT: Replacement Battery	STK	$20
EZPLC-TERM5: RS422/485 5-point Terminal Block	STK	$4

EZSeries TouchPLC

6" White on Blue Snap-in I/O	Page 6-26	
EZP-S6W-RS-PLC: EZSeries TouchPLC Snap-in I/O with Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 cell touch screen, 256 KB of HMI RAM (non-expandable), Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$510
EZP-S6W-RS-PLC-E: EZSeries TouchPLC Snap-in I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 cell touch screen, 256 KB of HMI RAM (non-expandable), Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$609
EZP-S6W-RS-PLC-D: EZSeries TouchPLC Snap-in I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 cell touch screen, 256 KB of HMI RAM (non-expandable), Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$589
EZP-S6W-RS-PLC-P: EZSeries TouchPLC Snap-in I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 cell touch screen, 256 KB of HMI RAM (non-expandable), Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$639
6" White on Blue Screw-down I/O	**Page 6-26**	
EZPP-S6W-RS-PLC: EZSeries TouchPLC Screw-down I/O with Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 cell touch screen, 256 KB of HMI RAM (non-expandable), Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$569
EZPP-S6W-RS-PLC-E: EZSeries TouchPLC Screw-down I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 cell touch screen, 256 KB of HMI RAM (non-expandable), Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$659
EZPP-S6W-RS-PLC-D: EZSeries TouchPLC Screw-down I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 cell touch screen, 256 KB of HMI RAM (non-expandable),Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3ms scantime for 1K instructions(typical), 4 slots for EZIO modules for total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$639
EZPP-S6W-RS-PLC-P: EZSeries TouchPLC Screw-down I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 5.7" STN White on Blue display, NEMA 4,4x (indoor), 48 cell touch screen, 256 KB of HMI RAM (non-expandable), Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$689
6" STN Monochrome Snap-in I/O	**Page 6-27**	
EZP-S6M-FS-PLC: EZSeries TouchPLC Snap-in I/O with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$662
EZP-S6M-FS-PLC-E: EZSeries TouchPLC Snap-in I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$761

EZSeries TouchPLC

Part Number	Ship	Price
EZP-S6M-FS-PLC-D: EZSeries TouchPLC Snap-in I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$741
EZP-S6M-FS-PLC-P: EZSeries TouchPLC Snap-in I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$801
6" STN Monochrome Screw-down I/O		Page 6-27
EZPP-S6M-FS-PLC: EZSeries TouchPLC Screw-down I/O with Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$712
EZPP-S6M-FS-PLC-E: EZSeries TouchPLC Screw-down I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$811
EZPP-S6M-FS-PLC-D: EZSeries TouchPLC Screw-down I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$791
EZPP-S6M-FS-PLC-P: EZSeries TouchPLC Screw-down I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 5.7" STN Monochrome display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$851
6" STN Color Snap-in I/O		Page 6-28
EZP-S6C-FS-PLC: EZSeries TouchPLC Snap-in I/O with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC. Same Programming port for Touchpanel & PLC	STK	$910
EZP-S6C-FS-PLC-E: EZSeries TouchPLC Snap-in I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1009
EZP-S6C-FS-PLC-D: EZSeries TouchPLC Snap-in I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$989
EZP-S6C-FS-PLC-P: EZSeries TouchPLC Snap-in I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1139
6" STN Color Screw-down I/O		Page 6-28
EZPP-S6C-FS-PLC: EZSeries TouchPLC Screw-down I/O with Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$960
EZPP-S6C-FS-PLC-E: EZSeries TouchPLC Screw-down I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1059
EZPP-S6C-FS-PLC-D: EZSeries TouchPLC Screw-down I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1039
EZPP-S6C-FS-PLC-P: EZSeries TouchPLC Screw-down I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 5.7" STN Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1189
6" TFT Color Snap-in I/O		Page 6-29
EZP-T6C-FS-PLC: EZSeries TouchPLC Snap-in I/O with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$1110
EZP-T6C-FS-PLC-E: EZSeries TouchPLC Snap-in I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1209
EZP-T6C-FS-PLC-D: EZSeries TouchPLC Snap-in I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1189
EZP-T6C-FS-PLC-P: EZSeries TouchPLC Snap-in I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1239
6" TFT Color Screw-down I/O		Page 6-29
EZPP-T6C-FS-PLC: EZSeries TouchPLC Screw-down I/O with Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$1160
EZPP-T6C-FS-PLC-E: EZSeries TouchPLC Screw-down I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1259
EZPP-T6C-FS-PLC-D: EZSeries TouchPLC Screw-down I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1239
EZPP-T6C-FS-PLC-P: EZSeries TouchPLC Screw-down I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 5.7" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 4 slots for EZIO modules for a total of 32 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1289
8" STN Color Snap-in I/O		Page 6-30
EZP-S8C-FS-PLC: EZSeries TouchPLC Snap-in I/O with Slim Bezel, 8.2" STN Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$1099
EZP-S8C-FS-PLC-E: EZSeries TouchPLC Snap-in I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 8.2" STN Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1198
EZP-S8C-FS-PLC-D: EZSeries TouchPLC Snap-in I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 8.2" STN Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1178
EZP-S8C-FS-PLC-P: EZSeries TouchPLC Snap-in I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 8.2" STN Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1228

EZSeries TouchPLC

Part Number	Ship	Price
8" STN Color Screw-down I/O		Page 6-30
EZPP-S8C-FS-PLC: EZSeries TouchPLC Screw-down I/O with Slim Bezel, 8.2" STN Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$1199
EZPP-S8C-FS-PLC-E: EZSeries TouchPLC Screw-down I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 8.2" STN Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1298
EZPP-S8C-FS-PLC-D: EZSeries TouchPLC Screw-down I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 8.2" STN Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1278
EZPP-S8C-FS-PLC-P: EZSeries TouchPLC Screw-down I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 8.2" STN Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1328
8" TFT Color Snap-in I/O		Page 6-31
EZP-T8C-FS-PLC: EZSeries TouchPLC Snap-in I/O with Slim Bezel, 8.2" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$1549
EZP-T8C-FS-PLC-E: EZSeries TouchPLC Snap-in I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 8.2" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1648
EZP-T8C-FS-PLC-D: EZSeries TouchPLC Snap-in I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 8.2" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1628
EZP-T8C-FS-PLC-P: EZSeries TouchPLC Snap-in I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 8.2" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1678
8" TFT Color Screw-down I/O		Page 6-31
EZPP-T8C-FS-PLC: EZSeries TouchPLC Screw-down I/O with Slim Bezel, 8.2" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$1649
EZPP-T8C-FS-PLC-E: EZSeries TouchPLC Screw-down I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 8.2" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1748
EZPP-T8C-FS-PLC-D: EZSeries TouchPLC Screw-down I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 8.2" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1728
EZPP-T8C-FS-PLC-P: EZSeries TouchPLC Screw-down I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 8.2" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1778
10" TFT Color Snap-in I/O		Page 6-32
EZP-T10C-FS-PLC: EZSeries TouchPLC Snap-in I/O with Slim Bezel, 10.4" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$1,849
EZP-T10C-FS-PLC-E: EZSeries TouchPLC Snap-in I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 10.4" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1,948
EZP-T10C-FS-PLC-D: EZSeries TouchPLC Snap-in I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 10.4" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1928
EZP-T10C-FS-PLC-P: EZSeries TouchPLC Snap-in I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 10.4" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$1978
10" TFT Color Screw-down I/O		Page 6-32
EZPP-T10C-FS-PLC: EZSeries TouchPLC Screw-down I/O with Slim Bezel, 10.4" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$1949
EZPP-T10C-FS-PLC-E: EZSeries TouchPLC Screw-down I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 10.4" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2048
EZPP-T10C-FS-PLC-D: EZSeries TouchPLC Screw-down I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 10.4" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2028
EZPP-T10C-FS-PLC-P: EZSeries TouchPLC Screw-down I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 10.4" TFT Color display, Nema 4,4x (indoor) front, 192 cell touch screen, 512 KB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2078
15" TFT Color Snap-in I/O		Page 6-33
EZP-T15C-FS-PLC: EZSeries TouchPLC Snap-in I/O with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 1MB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$2649
EZP-T15C-FS-PLC-E: EZSeries TouchPLC Snap-in I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 1MB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2748
EZP-T15C-FS-PLC-D: EZSeries TouchPLC Snap-in I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 1MB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2728
EZP-T15C-FS-PLC-P: EZSeries TouchPLC Snap-in I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 1MB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2778
15" TFT Color Screw-down I/O		Page 6-33
EZPP-T15C-FS-PLC: EZSeries TouchPLC Screw-down I/O with Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 1MB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	STK	$2749
EZPP-T15C-FS-PLC-E: EZSeries TouchPLC Screw-down I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 1MB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2848

EZSeries TouchPLC

Part Number	Ship	Price
EZPP-T15C-FS-PLC-D: EZSeries TouchPLC Screw-down I/O with built-in DeviceNet Slave comm interface, Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 1MB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2828
EZPP-T15C-FS-PLC-P: EZSeries TouchPLC Screw-down I/O with built-in Profibus DP Slave comm interface, Slim Bezel, 15" TFT Color display, NEMA 4,4x (indoor), 192 cell touch screen, 1MB of HMI RAM, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), 8 slots for EZIO modules for a total of 64 I/O Max, and 20-30VDC power supply. Same Programming port for Touchpanel & PLC	3DAY	$2878
EZSeries TouchPLC Manual, Programming Software, Cables and Accessories	Page 6-23	
EZP-TOUCHPLC-M: Hardware User Manual for EZSeries TouchPLCs. Note: EZP-EZSeries TouchPLC-M Hardware User Manual included with all EZSeries TouchPLCs.	STK	$35
EZP-TOUCHPLC-EDIT: Programming Software for EZSeries TouchPLC	STK	$99
EZP-PGMCBL: Programming Cable	STK	$20
EZPLC, EZSeries TouchPLC, and EZSeries TextPLC Accessories	Page 6-23	
EZPLC-BAT: Replacement Battery	STK	$20
EZPLC-TERM5: RS422/485 5-point Terminal Block	STK	$4
EZPLC-DNTERM5: DeviceNet 5-Pin Field Terminal Block for DeviceNet Interface Card - EZPLCs Only	STK	$8

Note: For EZSeries TouchPLC and EZSeries TextPLC Mounting Hardware Accessories, refer to EZSeries Touchpanel Accessories Section on Page 2-13

EZIO

Specialty Snap-in I/O Modules	Page 7-28, 7-29, 7-30, 7-31, 7-32	
EZIO-4THIE: 4 Channel thermocouple input Snap-in I/O module with support for J, K, S, and T type thermocouples with 0.1 degree Celcius resolution. No user power required. Page 7-28	3DAY	$149
EZIO-RTD: 4 Channel Resistance temperature detector Snap-in I/O module. No user power required. Page 7-30	3DAY	$179
EZIO-PRGM: Program storage Snap-in module. No user power required. Page 5-16	3DAY	$49
EZIO-PM-P: 2 Channel Pulse module "P" type or Sourcing output Snap-in I/O. No user power required. Page 7-32	3DAY	$179
EZIO-PM-D: 2 Channel Pulse module "D" Differential Snap-in I/O. No user power required. Page 7-32	3DAY	$179
EZIO-HSCM1: High Speed 24-Bit Counter Snap-in I/O module with support for 2 high speed quadrature encoders up to 60 KHz. 2 High speed outputs per encoder input. Page 7-29	3DAY	$99
EZIO-HSCM2: High Speed 24-Bit Counter Snap-in I/O module with support for 1 high speed quadrature encoder up to 100 KHz. Inhibit Input, Reset Input, Pre-Set Input, and 4 High Speed Outputs. Page 7-29	3DAY	$99
Specialty Screw-down I/O Modules	Page 7-28, 7-29, 7-30, 7-31, 7-32	
EZIOP-4THI: 4 Channel thermocouple input Screw-down I/O module with support for J, K, S, and T type thermocouples with 0.1 degree Celcius resolution. No user power required. Page 7-28	3DAY	$149
EZIOP-RTD: 4 Channel Resistance temperature detector Snap-in I/O module. No user power required. Page 7-30	3DAY	$179
EZIOP-PRGM: Program storage Snap-in module. No user power required. Page 5-16	3DAY	$49
EZIOP-PM-P: 2 Channel Pulse module "P" type or Sourcing output Screw-down I/O. No user power required. Page 7-32	3DAY	$179
EZIOP-PM-D: 2 Channel Pulse module "D" Differential Screw-down I/O. No user power required. Page 7-32	3DAY	$179
EZIOP-HSCM1: High Speed 24-Bit Counter Screw-down I/O module with support for 2 high speed quadrature encoders up to 60 KHz. 2 High speed outputs per encoder input. Page 7-29	3DAY	$99
EZIOP-HSCM2: High Speed 24-Bit Counter Screw-down I/O module with support for 1 high speed quadrature encoder up to 100 KHz. Inhibit Input, Reset Input, Pre-Set Input, and 4 High Speed Outputs. Page 7-29	3DAY	$99
DC Snap-in I/O Modules	Page 7-8 to 7-14	
EZIO-8DCI: 8 point 10-28 VDC Inputs (sink/source) Snap-in I/O Page 7-8	STK	$22
EZIO-8DCOP: 8 point 10-28 VDC (source) Outputs Snap-in I/O, 0.5 Amp per point, 1.0 Amp per module. Page 7-9	STK	$22
EZIO-8DCON: 8 point 10-28 VDC (sink) Outputs Snap-in I/O, 0.5 Amp per point, 1.4 Amp max per module. Page 7-10	STK	$22
EZIO-8HSDCI: 8 point High Speed 10-28 VDC Inputs (sink/source) Snap-in I/O, OFF to ON response=0.3 ms (typ). Page 7-11	STK	$27
EZIO-4DCI4DCON: 4 point 10-28 VDC (sink/source) Inputs Snap-in I/O; 4 point 10-28 VDC (sink) outputs, 0.5 Amp per point, 1.4 Amp max for 4 outputs. Page 7-12	STK	$22
EZIO-4DCI4DCIF: 4 point 10-28 VDC (sink/source) Inputs Snap-in I/O, OFF to ON response=3 ms (typ); 4 point High Speed 10-28 VDC (sink/source) Inputs, OFF to ON response=0.3 ms (typ); Fast input # 8 initiates fast interrupt of 20 µs. Pg 9-13	STK	$27
EZIO-4DCI4DCOP: 4 point 10-28 VDC (Sink/Source) Inputs Snap-in I/O; 4 point 10-28 VDC (source) outputs, 0.5 Amp per point, 1 Amp max for 4 DC Outputs. Page 7-14	STK	$22
DC Screw-down I/O Modules	Page 7-8 to 7-14	
EZIOP-8DCI: 8 point 10-28 VDC Inputs (sink/source) Screw-down I/O Page 7-8	STK	$29
EZIOP-8DCOP: 8 point 10-28 VDC (source) Outputs Screw-down I/O, 0.5 Amp per point, 1.0 Amp per module. Page 7-9	STK	$29
EZIOP-8DCON: 8 point 10-28 VDC (sink) Outputs Screw-down I/O, 0.5 Amp per point, 1.4 Amp max per module. Page 7-10	STK	$29
EZIOP-8HSDCI: 8 point High Speed 10-28 VDC Inputs (sink/source) Screw-down I/O, OFF to ON response=0.3 ms (typ). Page 7-11	STK	$34
EZIOP-4DCI4DCON: 4 point 10-28 VDC (sink/source) Inputs Screw-down I/O; 4 point 10-28 VDC (sink) outputs, 0.5 Amp per point, 1.4 Amp max for 4 outputs. Page 7-12	STK	$29
EZIOP-4DCI4DCIF: 4 point 10-28 VDC (sink/source) Inputs Screw-down I/O, OFF to ON response=3 ms (typ); 4 point High Speed 10-28 VDC (sink/source) Inputs, OFF to ON response=0.3ms; Fast input # 8 initiates fast interrupt of 20 µs. Pg 9-13	STK	$34
EZIOP-4DCI4DCOP: 4 point 10-28 VDC (Sink/Source) Inputs Screw-down I/O; 4 point 10-28 VDC (source) outputs, 0.5 Amp per point, 1 Amp max for 4 DC Outputs. Page 7-14	STK	$29
AC Snap-in I/O Modules	Page 7-15 to 7-17	
EZIO-8ACI: 8 point 70-132 VAC Inputs Snap-in I/O. Page 7-15	STK	$34
EZIO-8ACO: 8 point 70-132 VAC Outputs Snap-in I/O, 1.0 Amp per point. Page 7-16	STK	$34
EZIO-4ACI4ACO: 4 point 70-132 VAC Inputs Snap-in I/O; 4 point 70-132 VAC Outputs, 1.0 Amp per point for AC Outputs. Page 7-17	STK	$34
AC Screw-down I/O Modules	Page 7-15 to 7-17	
EZIOP-8ACI: 8 point 70-132 VAC Inputs Screw-down I/O. Page 7-15	STK	$39
EZIOP-8ACO: 8 point 70-132 VAC Outputs Screw-down I/O, 1.0 Amp per point. Page 7-16	STK	$39
EZIOP-4ACI4ACO: 4 point 70-132 VAC Inputs Screw-down I/O; 4 point 70-132 VAC Outputs, 1.0 Amp per point for AC Outputs. Page 7-17	STK	$39
AC/DC Snap-in I/O Combo Modules	Page 7-18 to 7-20	
EZIO-4DCOP4ACO: 4 point 10-28VDC (source) outputs Snap-in I/O, 0.5 Amp per point, 1 Amp max for 4 DC outputs; 4 point 70-132 VAC outputs 1.0 Amp per point for AC Outputs. Page 7-18	STK	$34
EZIO-4ACI4DCOP: 4 point 70-132 VAC Inputs Snap-in I/O; 4 point 10-28VDC (source) outputs, 0.5 Amp per point, 1 Amp max for 4 DC outputs. Page 7-19	STK	$34
EZIO-4DCI4ACO: 4 point 10-28 VDC (sink/source) Inputs Snap-in I/O; 4 point 70-132 VAC Outputs, 1.0 Amp per point for AC Outputs. Page 7-20	STK	$34
AC/DC Screw-down I/O Combo Modules	Page 7-18 to 7-20	
EZIOP-4DCOP4ACO: 4 point 10-28VDC (source) outputs Screw-down I/O, 0.5 Amp per point, 1 Amp max for 4 DC outputs; 4 point 70-132 VAC outputs 1.0 Amp per point for AC Outputs. Page 7-18	STK	$44
EZIOP-4ACI4DCOP: 4 point 70-132 VAC Inputs Screw-down I/O; 4 point 10-28VDC (source) outputs, 0.5 Amp per point, 1 Amp max for 4 DC outputs. Page 7-19	STK	$44
EZIOP-4DCI4ACO: 4 point 10-28 VDC (sink/source) Inputs Screw-down I/O; 4 point 70-132 VAC Outputs, 1.0 Amp per point for AC Outputs. Page 7-20	STK	$44

EZIO

Analog Snap-in I/O Modules	Page 7-24 to 7-27	
EZIO-8ANIV: 8 channel Analog Input module (Voltage) Snap-in I/O, 12 bit resolution; Range: 0-5VDC, 0-10VDC (switch selectable). Page 7-24	**STK**	**$109**
EZIO-8ANIC: 8 channel Analog Input module (Current) Snap-in I/O, 12 bit resolution; Range:0-20 mA, 4-20mA (switch selectable). Page 7-25	**STK**	**$109**
EZIO-4ANI4ANOV: 4 Channel Analog Inputs; 4 Channel Analog Outputs Snap-in I/O; 12-Bit resolution, 0-5VDC or 0-10VDC (switch selectable). Page 7-26	**STK**	**$109**
EZIO-4ANI4ANOC: 4 Channel Analog Inputs; 4 Channel Analog Outputs Snap-in I/O; 12-Bit resolution, 0-20 mA or 4-20mA (switch selectable). Page 7-27	**3DAY**	**$109**
Analog Screw-down I/O Modules	**Page 7-24 to 7-27**	
EZIOP-8ANIV: 8 channel Analog Input module (Voltage) Screw-down I/O, 12 bit resolution; Range: 0-5VDC, 0-10VDC (switch selectable). Page 7-24	**STK**	**$119**
EZIOP-8ANIC: 8 channel Analog Input module (Current) Screw-down I/O, 12 bit resolution; Range:0-20 mA, 4-20mA (switch selectable). Page 7-25	**STK**	**$119**
EZIOP-4ANI4ANOV: 4 Channel Analog Inputs; 4 Channel Analog Outputs Screw-down I/O; 12-Bit resolution, 0-5VDC or 0-10VDC (switch selectable). Page 7-26	**STK**	**$119**
EZIOP-4ANI4ANOC: 4 Channel Analog Inputs; 4 Channel Analog Outputs Screw-down I/O; 12-Bit resolution, 0-20 mA or 4-20mA (switch selectable). Page 7-27	**3DAY**	**$119**
Relay Snap-in I/O Modules	**Page 7-21 to 7-23**	
EZIO-4RLO: 4 point Relay Outputs Snap-in I/O, 5-180 VDC Max or 20-132 VAC; 4 Relays with Electrostatic Field Protection, Normally open (NO) contacts, 1.0 Amp Max Carry current per output.. Pg 9-21	**STK**	**$39**
EZIO-4ACI4RLO: 4 point 70-132 VAC Inputs Snap-in I/O; 4 point Relay Outputs, 5-180 VDC Max or 20-132 VAC; 4 Relays with Electrostatic Field Protection, Normally open (NO) contacts, 1.0 Amp Max Carry current per output.. Pg 9-22	**STK**	**$44**
EZIO-4DCIP4RLO: 4 point 10-28 VDC (sink/source) Inputs; 4 point Relay Outputs Snap-in I/O, 5-180 VDC Max or 20-132 VAC; 4 Relays with Electrostatic Field Protection, Normally open (NO) contacts, 1.0 Amp Max Carry current per output.. Pg 9-23	**STK**	**$44**
Relay Screw-down I/O Modules	**Page 7-21 to 7-23**	
EZIOP-4RLO: 4 point Relay Outputs Screw-down I/O, 5-180 VDC Max or 20-132 VAC; 4 Relays with Electrostatic Field Protection, Normally open (NO) contacts, 1.0 Amp Max Carry current per output.. Pg 9-21	**STK**	**$49**
EZIOP-4ACI4RLO: 4 point 70-132 VAC Inputs; 4 point Relay Outputs Screw-down I/O, 5-180 VDC Max or 20-132 VAC; 4 Relays with Electrostatic Field Protection, Normally open (NO) contacts, 1.0 Amp Max Carry current per output.. Pg 9-22	**STK**	**$54**
EZIOP-4DCIP4RLO: 4 point 10-28 VDC (sink/source) Inputs; 4 point Relay Outputs Screw-down I/O, 5-180 VDC Max or 20-132 VAC; 4 Relays with Electrostatic Field Protection, Normally open (NO) contacts, 1.0 Amp Max Carry current per output.. Pg 9-23	**STK**	**$54**
EZI/O Manual and Accessories	**Page 7- 4**	
EZIO-LINK-CBL: Plug-in and removable terminal block cable. Sold separately. Pg 5-10	**STK**	**$25**
EZIO-LINK-RLY: 8 of 10 Amp Relays 1 Form C Pg 5-10	**STK**	**$69**
EZIO-LINK-EXT: 11-pin Extender Board. Pg 5-10	**STK**	**$29**
EZIO-M: Hardware Manual for EZIO Modules. Note: EZIO Modules are shipped without User Manual. Sold separately	**STK**	**$25**
EZIO-DUMMY: Dummy Module for EZPLC, EZSeries TouchPLC, and EZSeries TextPLC Open Slots	**STK**	**$5**
EZIO-TERM11: 11 Pin Removable 3.5mm Phoenix Terminal Block for EZIO Modules	**STK**	**$5**
EZIO-TERM11CJC: 11 Pin Removable 3.5mm Phoenix Terminal Block for Thermocouple Module with Built-in Cold Junction Compensator	**STK**	**$15**
EZIO-SCDRV: Pack of two 2.5mm blade screwdrivers for EZIO's Phoenix Terminal Blocks	**STK**	**$5**

EZRIO

AC Powered EZRIO Snap-in I/O		
EZRIO-A-32: EZRIO Snap-in I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**STK**	**$129 Pg 8-11**
EZRIO-A-32E: EZRIO Snap-in I/O Enhanced base with built-in 10 baseT Ethernet, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 4 slots for EZIO modules for a total of 32 I/O Max (based on the type of EZIO modules utilized). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	**3DAY**	**$228 Pg 8-11**
EZRIO-A-48: EZRIO Snap-in I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**STK**	**$168 Pg 8-12**
EZRIO-A-48E: EZRIO Snap-in I/O Enhanced base with built-in 10 baseT Ethernet, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 6 slots for EZIO modules for a total of 48 I/O Max (based on the type of EZIO modules utilized). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	**3DAY**	**$267 Pg 8-12**
EZRIO-A-64: EZRIO Snap-in I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**STK**	**$188 Pg 8-13**
EZRIO-A-64E: EZRIO Snap-in I/O Enhanced base with built-in 10 baseT Ethernet, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 8 slots for EZIO modules for a total of 64 I/O Max (based on the type of EZIO modules utilized). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	**3DAY**	**$287 Pg 8-13**
EZRIO-A-96: EZRIO Snap-in I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**3DAY**	**$219 Pg 8-14**
EZRIO-A-96E: EZRIO Snap-in I/O Enhanced base with built-in 10 baseT Ethernet, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 12 slots for EZIO modules for a total of 96 I/O Max (based on the type of EZIO modules utilized). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	**3DAY**	**$318 Pg 8-14**
AC Powered EZRIO Screw-down I/O		
EZRIOP-A-32: EZRIO Screw-down I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**STK**	**$159 Pg 8-11**
EZRIOP-A-32E: EZRIO Screw-down I/O Enhanced base with built-in 10 baseT Ethernet, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 4 slots for EZIO modules for a total of 32 I/O Max (based on the type of EZIO modules utilized). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	**3DAY**	**$259 Pg 8-11**
EZRIOP-A-48: EZRIO Screw-down I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**STK**	**$225 Pg 8-12**
EZRIOP-A-48E: EZRIO Screw-down I/O Enhanced base with built-in 10 baseT Ethernet, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 6 slots for EZIO modules for a total of 48 I/O Max (based on the type of EZIO modules utilized). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	**3DAY**	**$325 Pg 8-12**
EZRIOP-A-64: EZRIO Screw-down I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**STK**	**$249 Pg10-13**
EZRIOP-A-64E: EZRIO Screw-down I/O Enhanced base with built-in 10 baseT Ethernet, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 8 slots for EZIO modules for a total of 64 I/O Max (based on the type of EZIO modules utilized). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	**3DAY**	**$349 Pg 8-13**
EZRIOP-A-96: EZRIO Screw-down I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**3DAY**	**$289 Pg 8-14**
EZRIOP-A-96: EZRIO Screw-down I/O, 96-120 VAC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**3DAY**	**$389 Pg 8-14**
DC Powered EZRIO Snap-in I/O		
EZRIO-D-32: EZRIO Snap-in I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**STK**	**$111 Pg 8-11**
EZRIO-D-32E:EZRIO Snap-in I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	**3DAY**	**$210 Pg 8-11**
EZRIO-D-48: EZRIO Snap-in I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	**STK**	**$150 Pg 8-12**

EZRIO

Part Number	Ship	Price
EZRIO-D-48E: EZRIO Snap-in I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	3DAY	$249 Pg 8-12
EZRIO-D-64: EZRIO Snap-in I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	STK	$170 Pg 8-13
EZRIO-D-64E: EZRIO Snap-in I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	3DAY	$269 Pg 8-13
EZRIO-D-96: EZRIO Snap-in I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	3DAY	$190 Pg 8-14
EZRIO-D-96E: EZRIO Snap-in I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	3DAY	$289 Pg 8-14
DC Powered EZRIO Screw-down I/O		
EZRIOP-D-32: EZRIO Screw-down I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	STK	$149 Pg 8-11
EZRIOP-D-32E:EZRIO Screw-down I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 4 slots for EZIO modules for a total of 32 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	3DAY	$249 Pg 8-11
EZRIOP-D-48: EZRIO Screw-down I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	STK	$199 Pg 8-12
EZRIOP-D-48E: EZRIO Screw-down I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 6 slots for EZIO modules for a total of 48 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	3DAY	$299 Pg 8-12
EZRIOP-D-64: EZRIO Screw-down I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	STK	$225 Pg 8-13
EZRIOP-D-64E: EZRIO Screw-down I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 8 slots for EZIO modules for a total of 64 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	3DAY	$325 Pg 8-13
EZRIOP-D-96: EZRIO Screw-down I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus RTU and EZ Protocols	3DAY	$259 Pg 8-14
EZRIOP-D-96E: EZRIO Screw-down I/O, 20-30 VDC power supply, 64K words total memory, two communication ports for RS232 and RS422/485, 12 slots for EZIO modules for a total of 96 I/O Max (maximum number of I/O points vary based on the type of EZIO modules used). Modbus TCP/IP, Ethernet IP and EZ IP Protocols	3DAY	$359 Pg 8-14
EZRIO Manual, Communication Modules and Accessories		Page 8-37
EZRIO-M: Hardware User Manual For EZRIO - All Models. Note: EZRIOs are shipped WITHOUT User Manual. Sold separately	STK	$30
EZRIO-CM: Hardware User Manual For DeviceNet, Profibus, and Ethernet Options	STK	$25
EZRIO-TERM5: RS422/485 5-point Terminal Block	STK	$4
EZPLC-DEVICENET: DeviceNet slave communication interface card for EZRIO ONLY. 5 point removable terminal block	STK	$79
EZPLC-PROFIBUS: Profibus DP slave communication interface card for EZRIO ONLY. Standard 9-pin female D-sub connector allows baud rates up to 12MB with auto baud rate detection.	3DAY	$129

EZSeries TextPLC

220 EZSeries TextPLC Snap-in I/O		Page 9-21
EZ-220-PLC: EZSeries TextPLC with 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	STK	$272
EZ-220-PLC-E: EZSeries TextPLC with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$371
EZ-220-PLC-D: EZSeries TextPLC with built-in DeviceNet Slave comm interface, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$351
EZ-220-PLC-P: EZSeries TextPLC with built-in Profibus DP Slave comm interface, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$401
220 EZSeries TextPLC Screw-down I/O		Page 9-21
EZP-220-PLC: EZSeries TextPLC with 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	STK	$302
EZP-220-PLC-E: EZSeries TextPLC with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$401
EZP-220-PLC-D: EZSeries TextPLC with built-in DeviceNet Slave comm interface, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$381
EZP-220-PLC-P: EZSeries TextPLC with built-in Profibus DP Slave comm interface, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$431
420 EZSeries TextPLC Snap-in I/O		Page 9-21
EZ-420-PLC: EZSeries TextPLC with 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	STK	$292
EZ-420-PLC-E: EZSeries TextPLC with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$391
EZ-420-PLC-D: EZSeries TextPLC with built-in DeviceNet Slave comm interface, 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$371
EZ-420-PLC-P: EZSeries TextPLC with built-in Profibus DP Slave comm interface, 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$421
420 EZSeries TextPLC Screw-down I/O		Page 9-21
EZP-420-PLC: EZSeries TextPLC with 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, built-in real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	STK	$322
EZP-420-PLC-E: EZSeries TextPLC with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$421
EZP-420-PLC-D: EZSeries TextPLC with built-in DeviceNet Slave comm interface, 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$401

EZSeries TextPLC

Part Number	Ship	Price
EZP-420-PLC-P: EZSeries TextPLC with built-in Profibus DP Slave comm interface, 4 Line x 20 character LCD Display, Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$451
220P EZSeries TextPLC Snap-in I/O	Page 9-18	
EZ-220P-PLC: EZSeries TextPLC I/O with 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	STK	$342
EZ-220P-PLC-E: EZSeries TextPLC I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$441
EZ-220P-PLC-D: EZSeries TextPLC I/O with built-in DeviceNet Slave comm interface, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$421
EZ-220P-PLC-P: EZSeries TextPLC I/O with built-in Profibus DP Slave comm interface, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$471
220P EZSeries TextPLC Screw-down I/O	Page 9-18	
EZP-220P-PLC: EZSeries TextPLC I/O with 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	STK	$372
EZP-220P-PLC-E: EZSeries TextPLC I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$471
EZP-220P-PLC-D: EZSeries TextPLC I/O with built-in DeviceNet Slave comm interface, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$451
EZP-220P-PLC-P: EZSeries TextPLC I/O with built-in Profibus DP Slave comm interface, 2 Line x 20 character LCD Display, Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$501
220 VFD EZSeries TextPLC Snap-in I/O	Page 9-20	
EZ-220V-PLC: EZSeries TextPLC I/O with 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	STK	$372
EZ-220V-PLC-E: EZSeries TextPLC I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$471
EZ-220V-PLC-D: EZSeries TextPLC I/O with built-in DeviceNet Slave comm interface, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$451
EZ-220V-PLC-P: EZSeries TextPLC I/O with built-in Profibus DP Slave comm interface, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$501
220 VFD EZSeries TextPLC Screw-down I/O	Page 9-20	
EZP-220V-PLC: EZSeries TextPLC I/O with 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	STK	$402
EZP-220V-PLC-E: EZSeries TextPLC I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$501
EZP-220V-PLC-D: EZSeries TextPLC I/O with built-in DeviceNet Slave comm interface, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$481
EZP-220V-PLC-P: EZSeries TextPLC I/O with built-in Profibus DP Slave comm interface, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$531
220P VFD EZSeries TextPLC Snap-in I/O	Page 9-19	
EZ-220PV-PLC: EZSeries TextPLC I/O with 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	STK	$442
EZ-220PV-PLC-E: EZSeries TextPLC I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$541
EZ-220PV-PLC-D: EZSeries TextPLC I/O with built-in DeviceNet Slave comm interface, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$521
EZ-220PV-PLC-P: EZSeries TextPLC I/O with built-in Profibus DP Slave comm interface, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Snap-in EZIO modules for a total of 32 I/O Max.	3DAY	$571
220P VFD EZSeries TextPLC Screw-down I/O	Page 9-19	
EZP-220PV-PLC: EZSeries TextPLC I/O with 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	STK	$472
EZP-220PV-PLC-E: EZSeries TextPLC I/O with built-in Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$571
EZP-220PV-PLC-D: EZSeries TextPLC I/O with built-in DeviceNet Slave comm interface, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$551
EZP-220PV-PLC-P: EZSeries TextPLC I/O with built-in Profibus DP Slave comm interface, 2 Line x 20 character Vacuum Fluorescent Display (VFD), Nema 4,4x (indoor) front, Numeric KEYPAD, five user defined pushbuttons with LED Indicators, arrow adjust, 256 programmable messages with up to 2 embedded read only data points and 1 read/write data point per message, Built-in high performance PLC with RS422/ASCII port, real time clock/Calendar, 3 ms scan time for 1K instructions (typical), and 4 slots for Screw-down EZIO modules for a total of 32 I/O Max.	3DAY	$601
EZSeries TextPLC Manual, Programming Software, Cables and Accessories	Page 9-16	
EZ-TEXTPLC-M: Hardware User Manual for EZSeries TextPLCs. Note: EZP-EZSeries TextPLC-M Hardware User Manual included with all EZSeries TextPLCs.	STK	$35
EZ-TEXTPLC-EDIT: Programming Software for EZSeries TextPLC	STK	$49

EZMarquee

1 Line 10 Char	Page 10-36 Page 10-37	
EZMR-1L10C: 1 Line of 2" charac, 10 charc per line, RED LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**STK**	**$379**
EZMR-1L10C-E: 1 Line of 2" charac, 10 charc per line, RED LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	**3DAY**	**$478**
EZMR-1L10C-D: 1 Line of 2" charac, 10 charc per line, RED LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$478**
EZMR-1L10C-P: 1 Line of 2" charac, 10 charc per line, RED LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$518**
EZMRH-1L10C: 1 Line of 2" charac, 10 charc per line, RED LED High-bright Model, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**7DAY**	**$749**
EZMRH-1L10C-E: 1 Line of 2" charac, 10 charc per line, RED LED High-bright, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	**7DAY**	**$959**
EZMRH-1L10C-D: 1 Line of 2" charac, 10 charc per line, RED LED High-bright, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$959**
EZMRH-1L10C-P: 1 Line of 2" charac, 10 charc per line, RED LED High-bright, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$1039**
EZMR-1L10C-OUT: 1 Line of 2" charac, 10 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$749**
EZMR-1L10C-E-OUT: 1 Line of 2" charac, 10 charc per line, RED LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$959**
EZMR-1L10C-D-OUT: 1 Line of 2" charac, 10 charc per line, RED LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$959**
EZMR-1L10C-P-OUT: 1 Line of 2" charac, 10 charc per line, RED LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1039**
EZMRH-1L10C-OUT: 1 Line of 2" charac, 10 charc per line, RED LED High-bright, Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1139**
EZMRH-1L10C-E-OUT: 1 Line of 2" charac, 10 charc per line, RED LED High-bright, Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1439**
EZMRH-1L10C-D-OUT: 1 Line of 2" charac, 10 charc per line, RED LED High-bright, Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1439**
EZMRH-1L10C-P-OUT: 1 Line of 2" charac, 10 charc per line, RED LED High-bright, Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1559**
EZMT-1L10C: 1 Line of 2" charac, 10 charc per line, TRI-COLOR LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**STK**	**$489**
EZMT-1L10C-E: 1 Line of 2" charac, 10 charc per line, TRI-COLOR LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$588**
EZMT-1L10C-D: 1 Line of 2" charac, 10 charc per line, TRI-COLOR LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$588**
EZMT-1L10C-P: 1 Line of 2" charac, 10 charc per line, TRI-COLOR LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$628**
EZMT-1L10C-OUT: 1 Line of 2" charac, 10 charc per line, TRI-COLOR LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$978**
EZMT-1L10C-E-OUT: 1 Line of 2" charac, 10 charc per line, TRI-COLOR LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1179**
EZMT-1L10C-D-OUT: 1 Line of 2" charac, 10 charc per line, TRI-COLOR LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1179**
EZMT-1L10C-P-OUT: 1 Line of 2" charac, 10 charc per line, TRI-COLOR LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1259**
2 Line 10 Char	**Page 10-38 Page 10-39**	
EZMR-2L10C: 2 Lines of 2" charac, 10 charc per line, RED LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**STK**	**$599**
EZMR-2L10C-E: 2 Lines of 2" charac, 10 charc per line, RED LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	**3DAY**	**$698**
EZMR-2L10C-D: 2 Lines of 2" charac, 10 charc per line, RED LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$698**
EZMR-2L10C-P: 2 Lines of 2" charac, 10 charc per line, RED LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$728**
EZMRH-2L10C: 2 Lines of 2" charac, 10 charc per line, RED LED High-bright, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**STK**	**$1199**
EZMRH-2L10C-E: 2 Lines of 2" charac, 10 charc per line, RED LED High-bright, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$1399**
EZMRH-2L10C-D: 2 Lines of 2" charac, 10 charc per line, RED LED High-bright, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$1399**
EZMRH-2L10C-P: 2 Lines of 2" charac, 10 charc per line, RED LED High-bright, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$1459**
EZMR-2L10C-OUT : 2 Lines of 2" charac, 10 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**STK**	**$1199**
EZMR-2L10C-E-OUT: 2 Lines of 2" charac, 10 charc per line, RED LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1399**
EZMR-2L10C-D-OUT: 2 Lines of 2" charac, 10 charc per line, RED LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1399**
EZMR-2L10C-P-OUT: 2 Lines of 2" charac, 10 charc per line, RED LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1459**
EZMRH-2L10C-OUT: 2 Lines of 2" charac, 10 charc per line, RED LED High-bight, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1799**
EZMRH-2L10C-E-OUT: 2 Lines of 2" charac, 10 charc per line, RED LED High-bight, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$2099**
EZMRH-2L10C-D-OUT: 2 Lines of 2" charac, 10 charc per line, RED LED High-bight, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$2099**
EZMRH-2L10C-P-OUT: 2 Lines of 2" charac, 10 charc per line, RED LED High-bight, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$2189**
EZMT-2L10C: 2 Lines of 2" charac, 10 charc per line, TRI-COLOR LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**STK**	**$699**
EZMT-2L10C-E: 2 Lines of 2" charac, 10 charc per line, TRI-COLOR LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	**3DAY**	**$798**
EZMT-2L10C-D: 2 Lines of 2" charac, 10 charc per line, TRI-COLOR LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$798**
EZMT-2L10C-P: 2 Lines of 2" charac, 10 charc per line, TRI-COLOR LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$828**
EZMT-2L10C-OUT: 2 Lines of 2" charac, 10 charc per line, TRI-COLOR LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1398**
EZMT-2L10C-E-OUT: 2 Lines of 2" charac, 10 charc per line, TRI-COLOR LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1599**
EZMT-2L10C-D-OUT: 2 Lines of 2" charac, 10 charc per line, TRI-COLOR LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1599**
EZMT-2L10C-P-OUT: 2 Lines of 2" charac, 10 charc per line, TRI-COLOR LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	**14DAY**	**$1659**
1 Line 20 Char	**Page 10-40 Page 10-41**	
EZMR-1L20C: 1 Line of 2" charac, 20 charc per line, RED LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**STK**	**$549**
EZMR-1L20C-E: 1 Line of 2" charac, 20 charc per line, RED LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	**3DAY**	**$648**
EZMR-1L20C-D: 1 Line of 2" charac, 20 charc per line, RED LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$648**
EZMR-1L20C-P: 1 Line of 2" charac, 20 charc per line, RED LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$678**
EZMRH-1L20C: 1 Line of 2" charac, 20 charc per line, RED LED High-bright, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**STK**	**$1099**
EZMRH-1L20C-E: 1 Line of 2" charac, 20 charc per line, RED LED High-bright, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	**3DAY**	**$1299**
EZMRH-1L20C-D: 1 Line of 2" charac, 20 charc per line, RED LED High-bright, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$1299**
EZMRH-1L20C-P: 1 Line of 2" charac, 20 charc per line, RED LED High-bright, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	**3DAY**	**$1359**

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Part Number	Ship	Price
EZMR-1L20C-OUT: 1 Line of 2" charac, 20 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1099
EZMR-1L20C-E-OUT: 1 Line of 2" charac, 20 charc per line, RED LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1299
EZMR-1L20C-D-OUT: 1 Line of 2" charac, 20 charc per line, RED LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1299
EZMR-1L20C-P-OUT: 1 Line of 2" charac, 20 charc per line, RED LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1359
EZMRH-1L20C-OUT: 1 Line of 2" charac, 20 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1649
EZMRH-1L20C-E-OUT: 1 Line of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1949
EZMRH-1L20C-D-OUT: 1 Line of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1949
EZMRH-1L20C-P-OUT: 1 Line of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2039
EZMT-1L20C: 1 Line of 2" charac, 20 charc per line, TRI-COLOR LED High-bright, Outdoor, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$649
EZMT-1L20C-E: 1 Line of 2" charac, 20 charc per line, TRI-COLOR LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$748
EZMT-1L20C-D: 1 Line of 2" charac, 20 charc per line, TRI-COLOR LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$748
EZMT-1L20C-P: 1 Line of 2" charac, 20 charc per line, TRI-COLOR LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$778
EZMT-1L20C-OUT: 1 Line of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1298
EZMT-1L20C-E-OUT: 1 Line of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1499
EZMT-1L20C-D-OUT: 1 Line of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1499
EZMT-1L20C-P-OUT: 1 Line of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1559
1 Line 40 Char Page 10-46 Page 10-47		
EZMR-1L40C: 1 Line of 2" charac, 40 charc per line, RED LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$879
EZMR-1L40C-E: 1 Line of 2" charac, 40 charc per line, RED LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	3DAY	$978
EZMR-1L40C-D: 1 Line of 2" charac, 40 charc per line, RED LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$978
EZMR-1L40C-P: 1 Line of 2" charac, 40 charc per line, RED LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1088
EZMRH-1L40C: 1 Line of 2" charac, 40 charc per line, RED LED High-bright, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$1759
EZMRH-1L40C-E: 1 Line of 2" charac, 40 charc per line, RED LED High-bright, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	3DAY	$1959
EZMRH-1L40C-D: 1 Line of 2" charac, 40 charc per line, RED LED High-bright, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1959
EZMRH-1L40C-P: 1 Line of 2" charac, 40 charc per line, RED LED High-bright, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$2019
EZMR-1L40C-OUT: 1 Line of 2" charac, 40 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1759
EZMR-1L40C-E-OUT: 1 Line of 2" charac, 40 charc per line, RED LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1959
EZMR-1L40C-D-OUT: 1 Line of 2" charac, 40 charc per line, RED LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1959
EZMR-1L40C-P-OUT: 1 Line of 2" charac, 40 charc per line, RED LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2019
EZMRH-1L40C-OUT: 1 Line of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2639
EZMRH-1L40C-E-OUT: 1 Line of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2939
EZMRH-1L40C-D-OUT: 1 Line of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2939
EZMRH-1L40C-P-OUT: 1 Line of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3029
EZMT-1L40C: 1 Line of 2" charac, 40 charc per line, TRI-COLOR LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$989
EZMT-1L40C-E: 1 Line of 2" charac, 40 charc per line, TRI-COLOR LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1088
EZMT-1L40C-D: 1 Line of 2" charac, 40 charc per line, TRI-COLOR LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1088
EZMT-1L40C-P: 1 Line of 2" charac, 40 charc per line, TRI-COLOR LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1138
EZMT-1L40C-OUT: 1 Line of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1978
EZMT-1L40C-E-OUT: 1 Line of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2179
EZMT-1L40C-D-OUT: 1 Line of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2179
EZMT-1L40C-P-OUT: 1 Line of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2279
2 Line 20 Char Page 10-42 Page 10-43		
EZMR-2L20C: 2 Lines of 2" charac, 20 charc per line, RED LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$879
EZMR-2L20C-E: 2 Lines of 2" charac, 20 charc per line, RED LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12	3DAY	$978
EZMR-2L20C-D: 2 Lines of 2" charac, 20 charc per line, RED LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$978
EZMR-2L20C-P: 2 Lines of 2" charac, 20 charc per line, RED LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1018
EZMRH-2L20C: 2 Lines of 2" charac, 20 charc per line, RED LED High-bright, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$1759
EZMRH-2L20C-E: 2 Lines of 2" charac, 20 charc per line, RED LED High-bright, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1959
EZMRH-2L20C-D: 2 Lines of 2" charac, 20 charc per line, RED LED High-bright, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1959
EZMRH-2L20C-P: 2 Lines of 2" charac, 20 charc per line, RED LED High-bright, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$2039
EZMR-2L20C-OUT: 2 Lines of 2" charac, 20 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1759
EZMR-2L20C-E-OUT: 2 Lines of 2" charac, 20 charc per line, RED LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1959
EZMR-2L20C-D-OUT: 2 Lines of 2" charac, 20 charc per line, RED LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1959
EZMR-2L20C-P-OUT: 2 Lines of 2" charac, 20 charc per line, RED LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2039
EZMRH-2L20C-OUT: 2 Lines of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2639
EZMRH-2L20C-E-OUT: 2 Lines of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2939
EZMRH-2L20C-D-OUT: 2 Lines of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2939
EZMRH-2L20C-P-OUT: 2 Lines of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3059

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Part Number	Ship	Price
EZMT-2L20C: 2 Lines of 2" charac, 20 charc per line, TRI-COLOR LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$989
EZMT-2L20C-E: 2 Lines of 2" charac, 20 charc per line, TRI-COLOR LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1088
EZMT-2L20C-D: 2 Lines of 2" charac, 20 charc per line, TRI-COLOR LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1088
EZMT-2L20C-P: 2 Lines of 2" charac, 20 charc per line, TRI-COLOR LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1128
EZMT-2L20C-OUT: 2 Lines of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$1978
EZMT-2L20C-E-OUT: 2 Lines of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2179
EZMT-2L20C-D-OUT: 2 Lines of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2179
EZMT-2L20C-P-OUT: 2 Lines of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$2259
2 Line 40 Char Page 10-48 Page 10-49		
EZMR-2L40C: 2 Lines of 2" charac, 40 charc per line, RED LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$1599
EZMR-2L40C-E: 2 Lines of 2" charac, 40 charc per line, RED LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1698
EZMR-2L40C-D: 2 Lines of 2" charac, 40 charc per line, RED LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1698
EZMR-2L40C-P: 2 Lines of 2" charac, 40 charc per line, RED LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1728
EZMRH-2L40C: 2 Lines of 2" charac, 40 charc per line, RED LED High-bright, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$3199
EZMRH-2L40C-E: 2 Lines of 2" charac, 40 charc per line, RED LED High-bright, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$3399
EZMRH-2L40C-D: 2 Lines of 2" charac, 40 charc per line, RED LED High-bright, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$3399
EZMRH-2L40C-P: 2 Lines of 2" charac, 40 charc per line, RED LED High-bright, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$3459
EZMR-2L40C-OUT: 2 Lines of 2" charac, 40 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3199
EZMR-2L40C-E-OUT: 2 Lines of 2" charac, 40 charc per line, RED LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3399
EZMR-2L40C-D-OUT: 2 Lines of 2" charac, 40 charc per line, RED LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3399
EZMR-2L40C-P-OUT: 2 Lines of 2" charac, 40 charc per line, RED LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3459
EZMRH-2L40C-OUT: 2 Lines of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$4799
EZMRH-2L40C-E-OUT: 2 Lines of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$5099
EZMRH-2L40C-D-OUT: 2 Lines of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$5099
EZMRH-2L40C-P-OUT: 2 Lines of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$5199
EZMT-2L40C: 2 Lines of 2" charac, 40 charc per line, TRI-COLOR LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$1899
EZMT-2L40C-E: 2 Lines of 2" charac, 40 charc per line, TRI-COLOR LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1998
EZMT-2L40C-D: 2 Lines of 2" charac, 40 charc per line, TRI-COLOR LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1998
EZMT-2L40C-P: 2 Lines of 2" charac, 40 charc per line, TRI-COLOR LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$2028
EZMT-2L40C-OUT: 2 Lines of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3798
EZMT-2L40C-E-OUT: 2 Lines of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3999
EZMT-2L40C-D-OUT: 2 Lines of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3999
EZMT-2L40C-P-OUT: 2 Lines of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$4059
4 Line 20 Char Page 10-44 Page 10-45		
EZMR-4L20C: 4 Lines of 2" charac, 20 charc per line, RED LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$1599
EZMR-4L20C-E: 4 Lines of 2" charac, 20 charc per line, RED LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1698
EZMR-4L20C-D: 4 Lines of 2" charac, 20 charc per line, RED LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1698
EZMR-4L20C-P: 4 Lines of 2" charac, 20 charc per line, RED LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1728
EZMRH-4L20C: 4 Lines of 2" charac, 20 charc per line, RED LED High-bright, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$3199
EZMRH-4L20C-E: 4 Lines of 2" charac, 20 charc per line, RED LED High-bright, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$3399
EZMRH-4L20C-D: 4 Lines of 2" charac, 20 charc per line, RED LED High-bright, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$3399
EZMRH-4L20C-P: 4 Lines of 2" charac, 20 charc per line, RED LED High-bright, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$3459
EZMR-4L20C-OUT: 4 Lines of 2" charac, 20 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3199
EZMR-4L20C-E-OUT: 4 Lines of 2" charac, 20 charc per line, RED LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3399
EZMR-4L20C-D-OUT: 4 Lines of 2" charac, 20 charc per line, RED LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3399
EZMR-4L20C-P-OUT: 4 Lines of 2" charac, 20 charc per line, RED LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3459
EZMRH-4L20C-OUT: 4 Lines of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$4799
EZMRH-4L20C-E-OUT: 4 Lines of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$5099
EZMRH-4L20C-D-OUT: 4 Lines of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$5099
EZMRH-4L20C-P-OUT: 4 Lines of 2" charac, 20 charc per line, RED LED High-bright, Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$5189
EZMT-4L20C: 4 Lines of 2" charac, 20 charc per line, TRI-COLOR LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	STK	$1899
EZMT-4L20C-E: 4 Lines of 2" charac, 20 charc per line, TRI-COLOR LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1998
EZMT-4L20C-D: 4 Lines of 2" charac, 20 charc per line, TRI-COLOR LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$1998
EZMT-4L20C-P: 4 Lines of 2" charac, 20 charc per line, TRI-COLOR LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	3DAY	$2028
EZMT-4L20C-OUT: 4 Lines of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3798
EZMT-4L20C-E-OUT: 4 Lines of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3999
EZMT-4L20C-D-OUT: 4 Lines of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$3999

EZMarquee

Part Number	Ship	Price
EZMT-4L20C-P-OUT: 4 Lines of 2" charac, 20 charc per line, TRI-COLOR LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$4059
4 Line 40 Char	Page 10-50 Page 10-51	
EZMR-4L40C: 4 Lines of 2" charac, 40 charc per line, RED LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$2399
EZMR-4L40C-E: 4 Lines of 2" charac, 40 charc per line, RED LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$2498
EZMR-4L40C-D: 4 Lines of 2" charac, 40 charc per line, RED LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$2498
EZMR-4L40C-P: 4 Lines of 2" charac, 40 charc per line, RED LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$2548
EZMRH-4L40C: 4 Lines of 2" charac, 40 charc per line, RED LED High-bright, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$4799
EZMRH-4L40C-E: 4 Lines of 2" charac, 40 charc per line, RED LED High-bright, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$4999
EZMRH-4L40C-D: 4 Lines of 2" charac, 40 charc per line, RED LED High-bright, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$4999
EZMRH-4L40C-P: 4 Lines of 2" charac, 40 charc per line, RED LED High-bright, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$5099
EZMR-4L40C-OUT: 4 Lines of 2" charac, 40 charc per line, RED LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$4799
EZMR-4L40C-E-OUT: 4 Lines of 2" charac, 40 charc per line, RED LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$4999
EZMR-4L40C-D-OUT: 4 Lines of 2" charac, 40 charc per line, RED LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$4999
EZMR-4L40C-P-OUT: 4 Lines of 2" charac, 40 charc per line, RED LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$5099
EZMRH-4L40C-OUT: 4 Lines of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$7199
EZMRH-4L40C-E-OUT: 4 Lines of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$7499
EZMRH-4L40C-D-OUT: 4 Lines of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$7499
EZMRH-4L40C-P-OUT: 4 Lines of 2" charac, 40 charc per line, RED LED High-bright, Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$7659
EZMT-4L40C: 4 Lines of 2" charac, 40 charc per line, TRI-COLOR LED, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$3299
EZMT-4L40C-E: 4 Lines of 2" charac, 40 charc per line, TRI-COLOR LED, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$3398
EZMT-4L40C-D: 4 Lines of 2" charac, 40 charc per line, TRI-COLOR LED, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$3398
EZMT-4L40C-P: 4 Lines of 2" charac, 40 charc per line, TRI-COLOR LED, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 12 housing.	7DAY	$3448
EZMT-4L40C-OUT: 4 Lines of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$6598
EZMT-4L40C-E-OUT: 4 Lines of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, Ethernet with Ethernet IP, Modbus TCP/IP, EZIP & TCP/IP protocols, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$6799
EZMT-4L40C-D-OUT: 4 Lines of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, DeviceNet Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$6799
EZMT-4L40C-P-OUT: 4 Lines of 2" charac, 40 charc per line, TRI-COLOR LED Outdoor, Profibus DP Slave comm interface, two built-in comm ports RS232 and RS422/485, Nema 4 housing.	14DAY	$6899
EZMarquee Manual, Programming Software, Cables and Accessories	Page 10-23	
EZM-MARQUEE-M: Hardware User Manual for EZMarquees. Note: EZM-EZMarquee-M Hardware User Manual is not included with EZMarquees.	STK	$30
EZM-GRMT: Grommets for EZMarquee Back Plate - All Models (package of 2)	STK	$8
EZM-BKPLT: Back Plate with Gasket for EZMarquees - All Models. Does not include grommets	STK	$10
EZM-TERM5: RS422/485 Terminal Block for EZMarquee - All Models	STK	$4
EZM-MNTBRK1: Mounting Brakets for EZMarquees - 1L10C and 1L20C Models Only (package of 2)	STK	$16
EZM-MNTBRK2: Mounting Brakets for EZMarquees - 2L10C and 2L20C Models Only (package of 2)	STK	$20

EZSeries CE Touch Computer

6" White On Blue	Page 11-13	
EZTCC-S6W-S: EZTouchscreen CE Computer with Slim Bezel, 5.7" STN White on Blue display, pre-loaded with Win CE.net 4.2 core, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$599
EZTCC-S6W-E: EZTouchscreen CE Computer Enhanced with Slim Bezel, 5.7" STN White on Blue display, pre-loaded with Win CE.net Professional Plus, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$699
6" Monochrome	Page 11-14	
EZTCC-S6M-S: EZTouchscreen CE Computer with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net 4.2 core, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$749
EZTCC-S6M-E: EZTouchscreen CE Computer Enhanced with Slim Bezel, 5.7" STN Monochrome display, pre-loaded with Win CE.net Professional Plus, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$849
6" STN Color	Page 11-15	
EZTCC-S6C-S: EZTouchscreen CE Computer with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net 4.2 core, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$899
EZTCC-S6C-E: EZTouchscreen CE Computer Enhanced with Slim Bezel, 5.7" STN Color display, pre-loaded with Win CE.net Professional Plus, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$999
6" TFT Color	Page 11-16	
EZTCC-T6C-S: EZTouchscreen CE Computer with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net 4.2 core, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,199
EZTCC-T6C-E: EZTouchscreen CE Computer Enhanced with Slim Bezel, 5.7" TFT Color display, pre-loaded with Win CE.net Professional Plus, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,299
8" STN Color	Page 11-17	
EZTCC-S8C-S: EZTouchscreen CE Computer with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net 4.2 core, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,299

EZSeries CE Touch Computer

Part Number	Ship	Price
EZTCC-S8C-E: EZTouchscreen CE Computer Enhanced with Slim Bezel, 8.2" STN Color display, pre-loaded with Win CE.net Professional Plus, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,399
8" TFT Color		Page 11-18
EZTCC-T8C-S: EZTouchscreen CE Computer with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net 4.2 core, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,499
EZTCC-T8C-E: EZTouchscreen CE Computer Enhanced with Slim Bezel, 8.2" TFT Color display, pre-loaded with Win CE.net Professional Plus, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,599
10" TFT Color		Page 11-19
EZTCC-T10C-S: EZTouchscreen CE Computer with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net 4.2 core, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,799
EZTCC-T10C-E: EZTouchscreen CE Computer Enhanced with Slim Bezel, 10.4" TFT Color display, pre-loaded with Win CE.net Professional Plus, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,899
15" TFT Color		Page 11-20
EZTCC-T15C-S: EZTouchscreen CE Computer with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net 4.2 core, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$1,999
EZTCC-T15C-E: EZTouchscreen CE Computer Enhanced with Slim Bezel, 15" TFT Color display, pre-loaded with Win CE.net Professional Plus, Nema 4,4x (indoor), Analog Resistive touch screen, AMD 333 MHz 32 bit processor, 64MB RAM, 32MB built-in FLASH, Compact FLASH Slot, Ethernet port, 1 USB Host port, 1 RS232 port, 1 RS232/422/485 port, and 20-30VDC operating range. EZTCC-Computer-M manual included with the computer.	3DAY	$2,099
EZTouchscreen CE Computer Accessories		Page 11-10
EZTCC-COMPUTER-M: Hardware and Installation manual for EZTouchscreen CE Computer. This manual is included with every CE Computer. Note: Hardware and Installation included with every CE Computer.	3DAY	$15
EZP-BAT: Replacement 1/2 AA, 3.6 volt lithium battery for EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$20
EZP-BRK-1: Optional DIN rail clips. Only for 6" models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer (package of 2).	STK	$15
EZP-COMCON3: 15-pin male D-sub connectors with terminal blocks, for connecting RS422 network cable to EZ Products	STK	$19
EZP-PANEL6-GSK: Replacement gasket for 6-inch EZPanel Enhanced operator interface (standard, NON-SLIM) bezels only.	STK	$8
EZP-PANEL8-GSK: Replacement gasket for 8-inch EZPanel Enhanced operator interface (standard, NON-SLIM) bezels only.	STK	$8
EZP-PANEL10-GSK: Replacement gasket for 10-inch EZPanel Enhanced operator interface (standard, NON-SLIM) bezels only.	STK	$8
EZP-PANEL-STUDS: Spare mounting studs for for EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer panels. Comes in package of 8 with nuts.	STK	$8
EZP-6SLIMF-GSK: Replacement gasket for Slim Bezel 6 inch models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer.	STK	$8
EZP-8SLIMF-GSK: Replacement gasket for Slim Bezel 8 inch models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer.	STK	$25
EZP-10SLIMF-GSK: Replacement gasket for Slim Bezel 10 inch models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer.	STK	$30
EZP-15SLIMF-GSK: Replacement gasket for Slim Bezel 15 inch models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer.	STK	$34
EZP-COV6: Pack of 3 protective shields for 6 inch models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$20
EZP-COV8: Pack of 3 protective shields for 8 inch models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$34
EZP-COV10: Pack of 3 protective shields for 10 inch models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$38
EZP-COV15: Pack of 3 protective shields for 15 inch models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchscreen CE Computer	STK	$56

EZMonitor

EZMonitor		
EZ-10M: 10.4" SVGA TFT Color Display (600 vertical by 800 horizontal pixel array), 262,144 colors, 220cd/m2 (Typ.), Contrast Ratio of 400:1, Industrial housing with Nema 4/4x front. Page 12-6	STK	$999
EZ-12M: 12.1" SVGA TFT Color Display (600 vertical by 800 horizontal pixel array), 262,144 colors, 300cd/m2 (Typ.), Contrast Ratio of 200:1, Industrial housing with Nema 4/4x front. Page 12-7	STK	$999
EZ-15M: 15" VGA TFT Color Display (768 vertical by 1024 horizontal pixel array), 16M colors, 250cd/m2 (Typ.), Contrast Ratio of 350:1, Industrial housing with Nema 4/4x front. Page 12-8	STK	$1,099
EZ-17M: 17" SVGA TFT Color Display (1024 vertical by 1280 horizontal pixel array), 16.2M colors, 250cd/m2 (Typ.), Contrast Ratio of 400:1, Industrial housing with Nema 4/4x front. Page 12-9	STK	$1,199
EZ-10MT: 10.4" SVGA TFT Color Display (600 vertical by 800 horizontal pixel array) with Analog Resistive Touch Screen, 262,144 colors, 220cd/m2 (Typ.) USB setup, Contrast Ratio of 400:1, Industrial housing with Nema 4/4x front. Page 12-6	STK	$1,099
EZ-12MT: 12.1" SVGA TFT Color Display (600 vertical by 800 horizontal pixel array) with Analog Resistive Touch Screen, 262,144 colors, 300cd/m2 (Typ.) USB setup, Contrast Ratio of 200:1, Industrial housing with Nema 4/4x front. Page 12-7	STK	$1,199
EZ-15MT: 15" VGA TFT Color Display (768 vertical by 1024 horizontal pixel array) with Analog Resistive Touch Screen, 16M colors, 250cd/m2 (Typ.) USB setup, Contrast Ratio of 350:1, Industrial housing with Nema 4/4x front. Page 12-8	STK	$1,299
EZ-17MT: 17" SVGA TFT Color Display (1024 vertical by 1280 horizontal pixel array) with Analog Resistive Touch Screen, 16.2M colors, 250cd/m2 (Typ.) USB setup, Contrast Ratio of 400:1, Industrial housing with Nema 4/4x front. Page 12-9	STK	$1,499
EZ-10MT-S: 10.4" SVGA TFT Color Display (600 vertical by 800 horizontal pixel array) with Analog Resistive Touch Screen, 262,144 colors, 220cd/m2 (Typ.) Serial setup, Contrast Ratio of 400:1, Industrial housing with Nema 4/4x front. Page 12-6	STK	$1,099
EZ-12MT-S: 12.1" SVGA TFT Color Display (600 vertical by 800 horizontal pixel array) with Analog Resistive Touch Screen, 262,144 colors, 300cd/m2 (Typ.) Serial setup, Contrast Ratio of 200:1, Industrial housing with Nema 4/4x front. Page 12-7	STK	$1,199
EZ-15MT-S: 15" VGA TFT Color Display (768 vertical by 1024 horizontal pixel array) with Analog Resistive Touch Screen, 16M colors, 250cd/m2 (Typ.) Serial setup, Contrast Ratio of 350:1, Industrial housing with Nema 4/4x front. Page 12-8	STK	$1,299
EZ-17MT-S: 17" SVGA TFT Color Display (1024 vertical by 1280 horizontal pixel array) with Analog Resistive Touch Screen, 16.2M colors, 250cd/m2 (Typ.) Serial setup, Contrast Ratio of 400:1, Industrial housing with Nema 4/4x front. Page 12-9	STK	$1,499
EZMonitor Accessories		Page 12-5
EZ-MPS-A: Molded design power supply: Input: 110V-240VDC at 50-60Hz, Output: 12VDC, 3.3A	STK	$39
EZ-MPS-B: Molded design power supply: Input: 110V-240VDC at 50-60Hz, Output: 12VDC, 5A	STK	$49
EZ-MVCBL-10: 10' shielded video cable	STK	$29
EZ-MVCBL-25: 25' shielded video cable	STK	$49
EZ-MVCBL-50: 50' shielded video cable	STK	$75
EZ-TERM3: 3 Point Terminal Block Adapter for Power Input	STK	$29

EZ Series™

Touchpanels



THE MOST SENSIBLE PLC TOUCHPANEL

Innovate'n'Save™

EZSeries™ Touchpanels

The Most SENSIBLE PLC Touch Panels!



"Highest Overall Value"

Survey says: 3-17 times better than Competition

Surveys conducted by 6 major magazines show that the EZSeries Touchpanels are the Highest Value PLC Touchpanels in the Market.

Magazine Survey	*Great Value at this Price*	*Fair Value/ Fair Price*	*Under Valued/ over Priced*
EZPanel Enhanced (from AVG)	24	55	5
AB Panelview	7	34	53
GE Quickpanel	4	55	34
Xycom/Pro-face	5	59	23
Mitsubishi	3	64	27
Siemens	6	49	40
Maple Systems	7	56	28

High-end SCADA Features and PC Graphics at fraction of Cost

American Innovation
Made in USA
with US & Foreign content

Saves cost in more than one way...

1. Panel cost starting $199 — JUST $99 — *Innovate'n'Save™*
   Page No. 3-4
2. No manual required, self-learn programing software — Time is Money
   Page No. 3-6
3. Fastest Screen design software saves programming time
   Page No. 3-11
4. Unique On-Line programming saves project start-up time — Time is Money
   Page No. 3-12
5. **OEM/SI Utility saves project upgrade in the field** — Time is Money
   Page No. 3-46
6. The One and Only Remote Monitoring and Control feature **saves thousands of $$$ in field Trips!!** — JUST $99
   Page No. 3-8

You get to choose the Operating System (OS) ...

Dedicated Operating System (OS)

For Faster Speeds and Windows Free



INSTANTANEOUS TOUCH RESPONSE

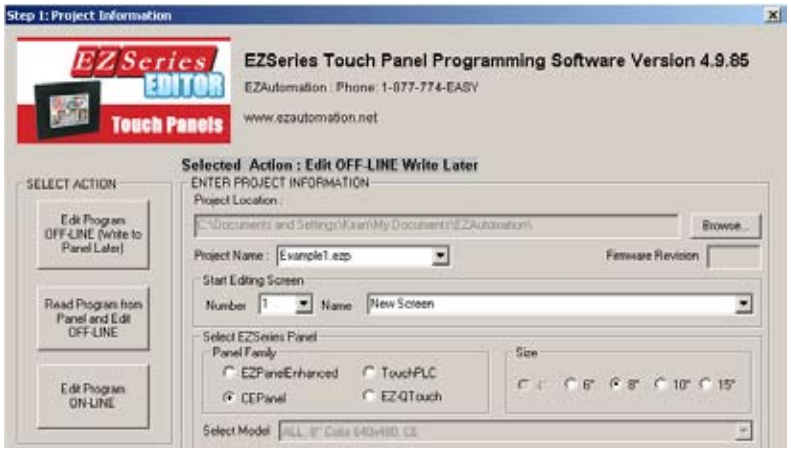
OR

Innovate'n'Save™

Windows CE Operating System (OS)

For PDF, Excel, PPT, Word and Video in addition to HMI functionality





Use the same EZ Programming Software (Across All models)

Allows an application developed for one Operating System **to run on the other, seamlessly!**

Seamless Migration both ways



Dedicated OS



Windows CE OS

Total Freedom to choose one or the other Operating System with complete Interoperability

EZSeries™ Touchpanels

HALT CERTIFIED HASS

30 DAY GUARANTEE MONEY BACK

Both Dedicated (DS) and Windows CE (CE) Opearting Systems

Common Features and Common Programming Language for All Models



4`" Slim Bezel
Monochrome



4" Slim Bezel
TFT Color



6" Slim Bezel
White on Blue



6" Slim Bezel
Monochrome



6" Slim Bezel
Monochrome



6" Slim Bezel
STN Color



6" Slim Bezel
STN Color
Both DS & CE OS



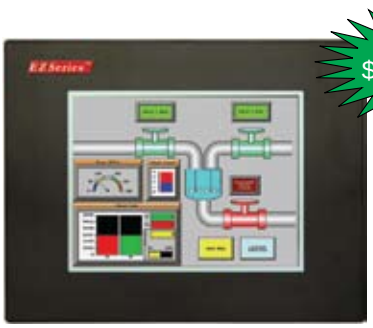
6" Slim Bezel
TFT Color
Both DS & CE OS



8" Slim Bezel
STN Color
Both DS & CE OS



8" Slim Bezel
TFT Color
Both DS & CE OS



10" Slim Bezel
TFT Color
Both DS & CE OS



15" Slim Bezel
TFT Color
Both DS & CE OS

SENSIBLE Hardware Common To All Models

Most Touch Panel manufacturers offer high end features such as Trend Graphs, etc. only in their high end (10" and above) models. NOT US! Our feature set as well as programming language is common to all models from 4" Monochrome to 15" TFT.
Note: Hardware common from 6" to 15" Models

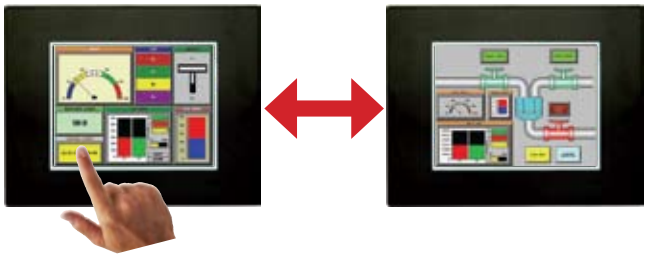
EZiest to use programming software as proclaimed by over 20,000 customers

For Just
$99

EZSeries™ Dedicated OS Touchpanels offer Best Of Both Worlds. . .

1 Dedicated Windows Free, Congestion Free, High reliabilty and High Speed Operation

Most Touchpanel manufacturers including AVG (since 1992) started out using proprietary or dedicated operating system for two reasons. First, code for proprietary Operating system was simpler since it was dedicated to performing touchpanel functions as compared to the code for more general purpose windows Operating system. Second it consumed much less memory. However most dedicated operating systems used in touchpanels such as Panelview from Allen Bradley and Quickpanel from Total Control Products could produce only limited graphics. The need for better graphics and ethernet capability led to most manufacturers starting to offer Windows CE Operating system in their newer touchpanels, like Panelview Plus from Allen Bradley and Quick Panelview from GE. However with Windows comes its traditional baggage like boot-up, memory hogging, OS component conflicts, OS under Microsoft's control and a slower response time, even though this Ethernet baggage is getting lesser with time.



- Instanteneous Touch Response
- No Windows Boot-up
- Less than 5% Memory for same graphics
- Base operating system under self-control
- More Robust, Self diagnostics and Error Control

EZSeries Dedicated OS panels, however, offer PC graphics, Ethernet and High-end SCADA features without the Windows OS

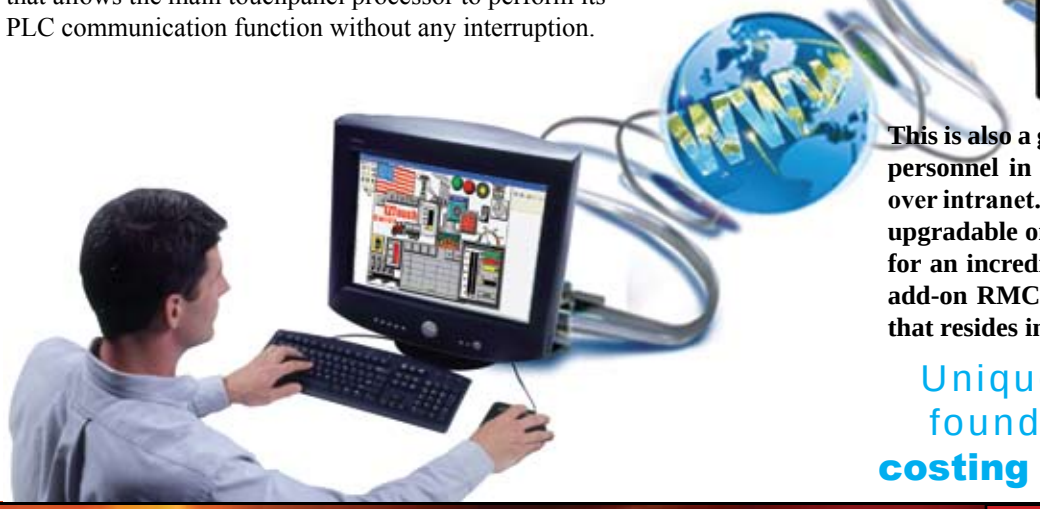
2 Access to Internet/Intranet using a second Processor

That allows you to have Remote monitoring and Control over Ethernet...

Now AVG is introducing a unique Ethernet capability while still using the proprietary, memory frugal, dedicated & high speed touch response in its EZSeries Touchpanels. We call it Remote Monitoring and Control (RMC). It allows the user to monitor and control the touchpanel anywhere in the world where there is internet or modem. It is a great benefit for OEMs and System Integrators to troubleshoot a system problem over the internet or modem without leaving their desks, saving thousands of dollars in field-trip expenses. The RMC card uses a seperate 32bit processor that allows the main touchpanel processor to perform its PLC communication function without any interruption.

Innovate'n'Save™





This is also a great tool for management/quality personnel in any plant to monitor production over intranet. And all this is available (even field upgradable on existing EZSeries Touchpanels) for an incredible low price for just $99 for the add-on RMC card and $99 for RMC software that resides in your PC.

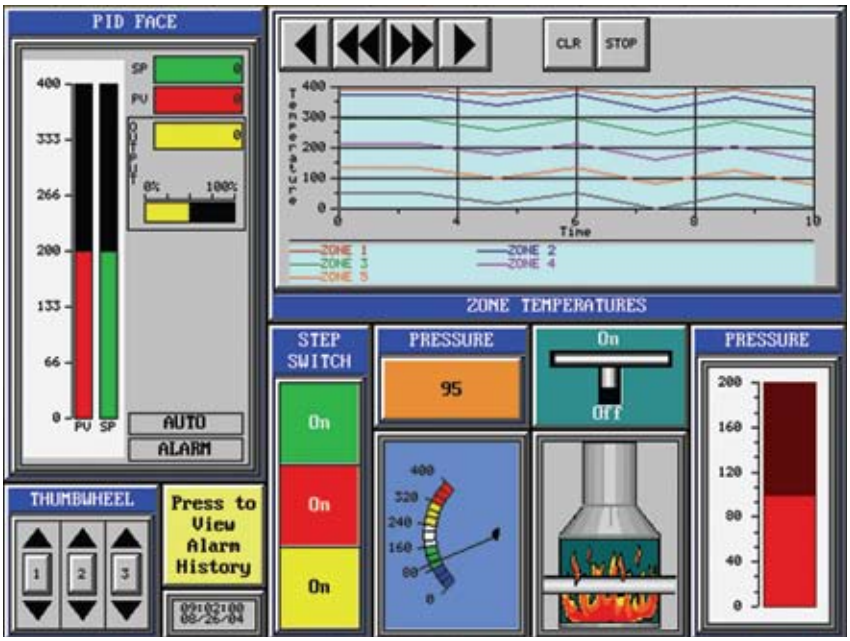
Unique capability not found in panels even **costing thousands more!!**

Program this Screen in less than 10 minutes

EZ as 1-2-3

Innovate'n'Save™

NO COURSE EZ SOFTWARE REQUIRED



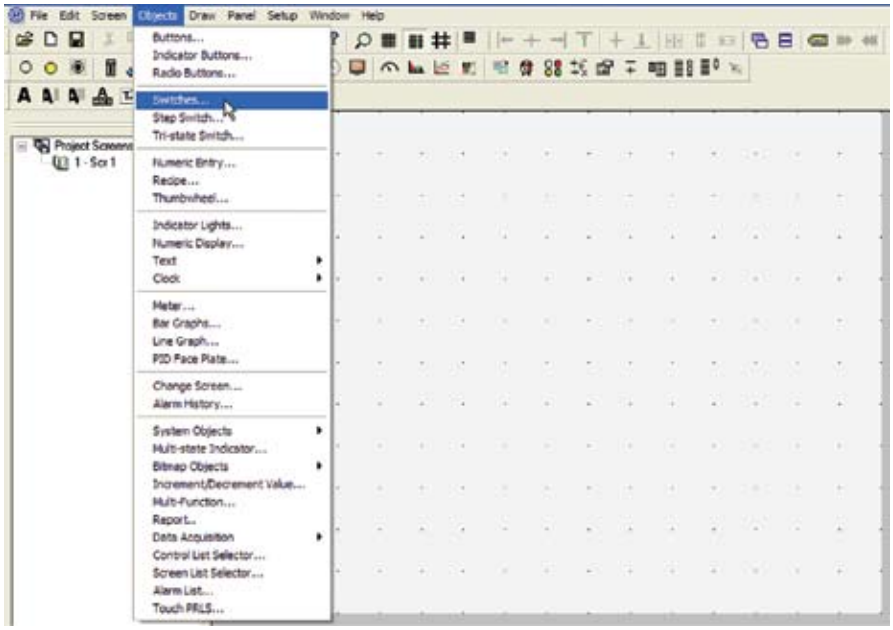
EZSeries has earned it's name!

We named it EZSeries Touchpanel for a reason. We made an easy to use, simple operator interface that will save you a lot of engineering hours and design time due to its simplicity and ease of use. You don't need prior programming knowledge to design a screen. You do not need to attend any classes to learn how to program the EZSeries Touchpanel.
It is Intuitive, it is Simple!

The only assumptions are:

- You are familiar with Windows-based environments
- You have a good understanding of your PLC memory's address formats

The following example shows just how EZ it is to create an object:



1 Select an Object

A) Click on "Objects" on the main menu bar

B) Select the object you wish to create. In this example, click on "Switches".

You may also select an object from the tool bar below the main menu.

Tool Bar



Or select switch object from the tool bar

2 Fill in the Dialog Box

A) Click the style of switch you wish to use.

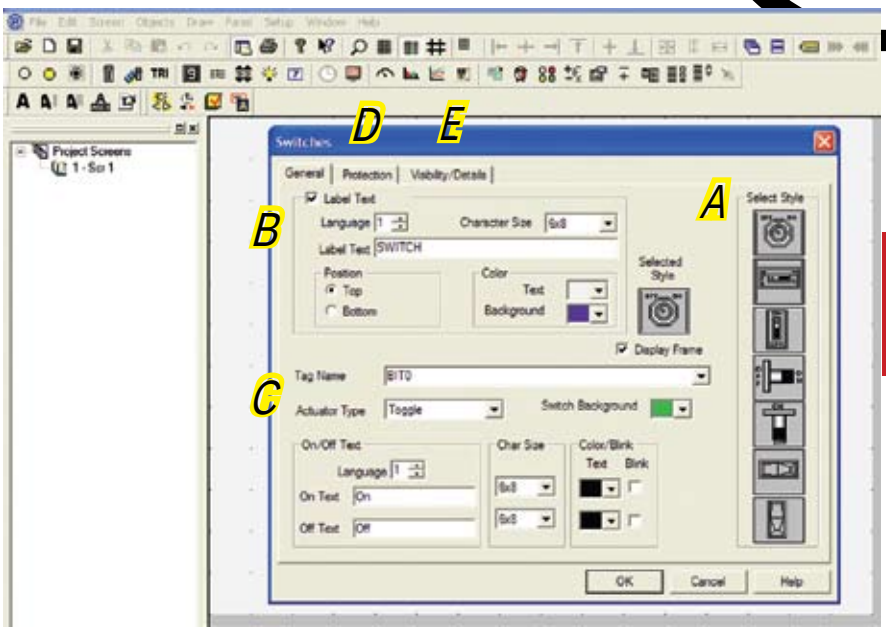
B) Select “Label Text”. This will allow you to name and customize the object.

C) Select or create a PLC bit address tag that the “Switch” will activate.

D) If you need password protection, click on the “Protection” tab at the top of the dialog box.

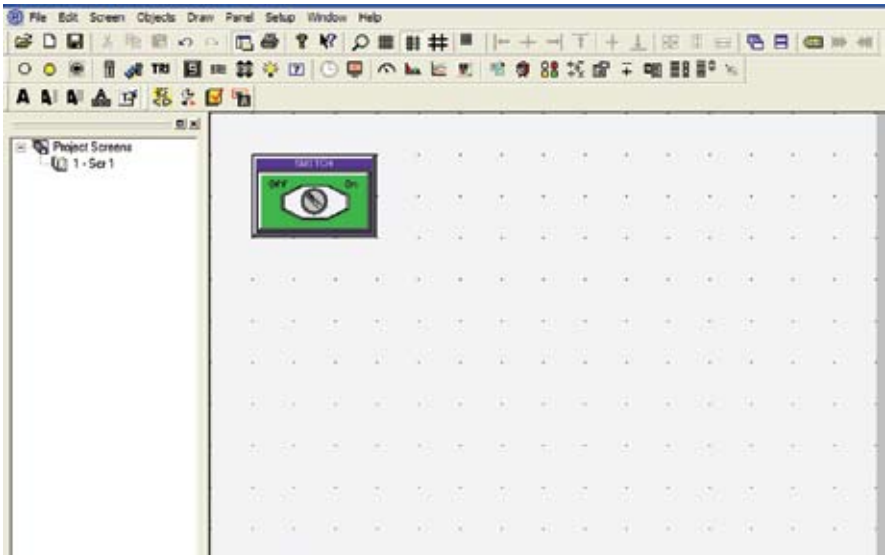
E) If you wish to keep this object invisible until a PLC tag is triggered, click on “Visibility/Details”.

Visibility will be discussed later in detail.



3 Placing the Object

Click your mouse on the screen and stretch the object to your desired size. If you want to edit the object again, simply double click on it and the configuration dialog box will reappear. There is even a “Simulate” button on the dialog box for some objects so you can see how objects will work in real time.



PERFORM THE PREVIOUS STEPS FOR DIFFERENT OBJECTS

AND YOU HAVE DESIGNED YOUR SCREEN!

Designed from Ground up to Simply be the EZiest Software to Program Touch Panels

You do not have to spend $1300 or attend a 3 day course

to learn how to program an operator panel!

Allen Bradley recommends attending their course number RS-RSVMETRG for developing skills needed to create and configure their panels even for small machine/process

EZ has widely been recognized as the Easiest to program software in the industry. More than 10,000 companies and over 20,000 Automation Control Engineers have used our software without having the need to attend even a one hour tutorial. In designing this product to be sold through the direct business channel without any local hand holding or training classes, we had to design this software to be so intuitive that even a first time user can get it up and running in a couple of hours without opening the software manual.

EZRMC™ EZ Remote Monitoring & Control

Troubleshoot your Panel/Project Half way across the World without leaving your Desk!!

NEW

Remote Monitoring and Control (RMC) allows the user to monitor and control the touchpanel anywhere in the world where there is internet or modem. This feature is available in EZSeries Touchpanels irrespective of the Operating System. In case of Touchpanels using Dedicated Operating System the panel has two processors. One is used for HMI functionality including communication to the PLC whereas the second processor residing on the RMC option card is used for Remote Monitoring and Control. In case of EZSeries Touchpanel with CE Operating System, the same processor handles both functions.

Remote Monitoring & Control (RMC) option card

FOR JUST $99

Innovate'n'Save™



RMC option card plugs into the extention connector of the EZSeries Touchpanels. It has an Ethernet Port that allows a PC anywhere in the world to view any screen in the Panel in Real-Time as well as control the operation of the Panel using your mouse, also in Real-Time. This card can also be configured to send Emails from the Panel. As a side benefit RMC card also gives you the ability to store upto 2GB of Data in an SD card on-board.

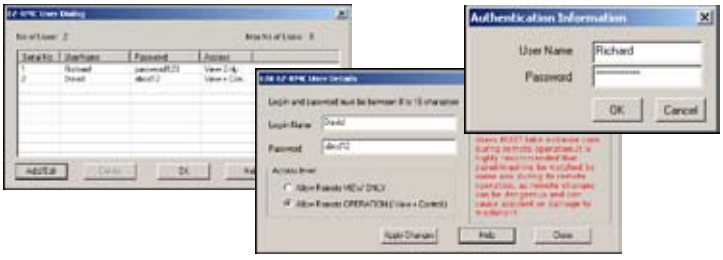


Note: RMC option card can be used on panels that already have another option card such as DH+ or Profibus. However the Touchpanel has to be factory configured.

EZSeries Touchpanels with Dedicated OS need an RMC card whereas EZSeries CE Touchpanels **do not need the option card for RMC !!**

High Level of Password Security

For Obvious reasons RMC feature has multiple levels of password protection.



Monitor Machine/Process operation through the Panel



With EZ-RMC software installed in your PC you could monitor any screen on the Touchpanel addressed by the software in Real-Time allowing system troubleshooting and/or management review of the machine opertaion.

Control Machine/Process operation through the Panel



Under multiple password security EZ-RMC software allows you to operate the Touchpanel just as if you are standing right next to it. Clicking on a mouse or entering a preset thru your PC in Chicago will perform the same actions as if an operator was doing the same on the touchscreen half way accross the world.

Protect your investment in existing EZSeries Touchpanel

For all EZSeries Touchpanels in the field that have 512K or higher memory, you could install the RMC option card in the field. You can also upgrade panel memory with EZ-Flash-2 plug-in memory card.

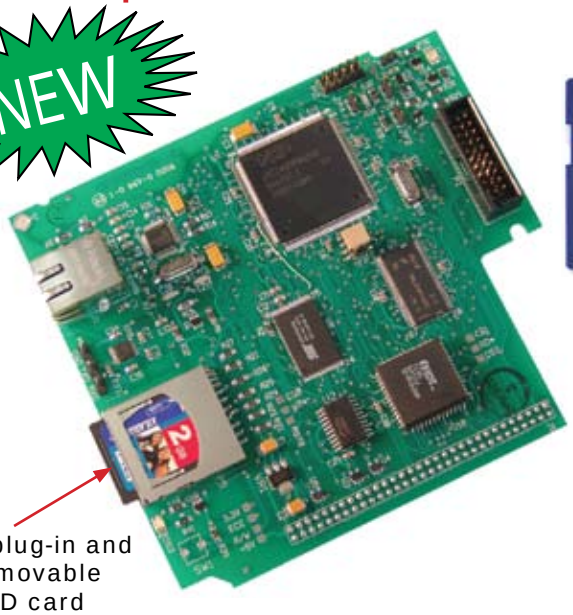


RMC card plugs here

EZSeries RMC Card has Additional Data Acquisition Feature at No Extra Cost!!

Store upto 2GB of Data on RMC Card

NEW





Hot plug-in and removable SD card

Local data acquisition and storage on SD card that plugs into the RMC card

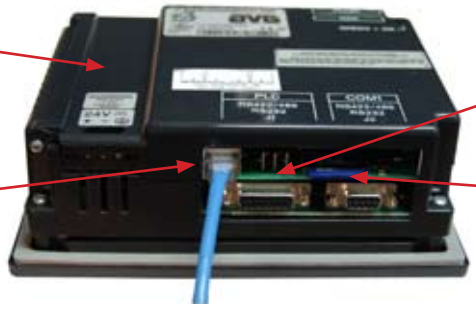
Collect 20 variables every second to store data for one (1) year

RMC option card that plugs into any EZSeries Touchpanel with Dedicated OS and having 512K or more memory allows you to store any number of variables in the Touchpanel in an on-board SD card. The data is stored in a ".csv" file which can be conveniently read by Microsoft Excel. This huge 2GB memory capability will give you the ability to store, for example, 20 two byte variables every second for 1 year. The local storage prevents any data loss due to communication loss between Touchpanel and a PC.

Local data storage prevents any missed data due to communication loss between Touchpanel and a PC.

Any EZSeries Touchpanel with dedicated OS and having 512K or more memory

Ethernet Connector for Remote Monitoring and Control



Plug-in RMC option card

Hot Insert and Remove SD card

Innovate'n'Save™

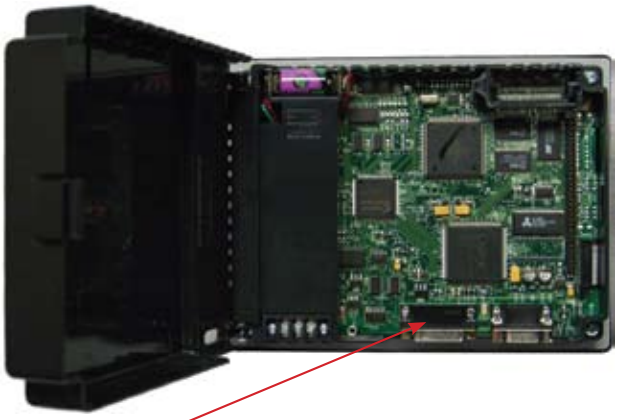
Remove SD Card from Panel, Plug into any SD USB reader **and open into Excel file**

SD cards have become a common medium of storage in the consumer market. Most digital cameras today have the capability to plug-in an SD card, store your pictures or video in the SD card and transfer to your PC. The Machine/ Process data stored in the SD card can easily be read into your PC. The data is stored in ".csv" format which can be easily read into and graphed on an Excel sheet.



No Other Touchpanel Can Match us in Communication Drivers, Serial or Network

Universal Ethernet Drivers ('U' Option)





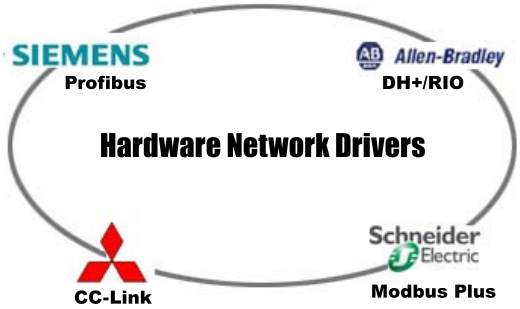
RJ45 Connector in place of 15-pin D-Sub for Universal Ethernet models in standard EZSeries Touchpanels with dedicated operating system

- Allen-Bradley Control-Logix with Native Tags
- Allen-Bradley SLC or MicroLogix DF1 over Ethernet
- Modbus TCP/IP
- GE SRTP
- Koyo ECOM
- **Profinet (coming soon)**
- EZPLC

EZSeries CE Touchpanels have built-in Ethernet and hence do not need the " U " option

NEW

EZSeries Plus will soon have built-in Universal Ethernet at No extra cost



High Speed Dedicated Network Drivers

- DH+/Remote I/O (Rockwell)
- Modbus Plus (Schneider)
- DeviceNet
- CC-Link (Mitsubishi)
- **Profibus**



EZSeries Touchpanels connect to more than 90% of PLCs and Networks

Serial Drivers

- Allen-Bradley DF1 Half and Full Duplex (PLC-5, SLC 500, MicroLogix 1000, 1100, 1200 and 1500)
- DH485/AIC/AIC+ for MicroLogix 1000, 1100, 1200, 1500, SLC500, 5/01, /02, /03
- Aromat Mewtocol COM
- AutomationDirect DirectLOGIC PLCs
- Baldor
- Control Techniques - Unidrive 2-wire, 4-wire (binary)
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZPLC
- GE Fanuc SNPX (90/30, 90/70)
- Idec Computer Link
- All Mitsubishi FX Series
- Modicon MODBUS RTU
- Omron Host Link (C200 and C500)
- Parker Hannifan
- Siemens S7 MPI Adapter series PLCs
- Siemens S7-200
- Square D Symax - 300 Series CPU, 400 Series CPU (Symax)
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104 (Transparent Byte Protocol or Non-Intelligent Terminal Protocol)
- Uni-Telway - Telemecanique TSX 37 Micro (UNI-TE Version 1.1)
- Yaskawa (Memobus protocol)

Fastest Screen Design ... We Dare Compare!!

Most HMI vendors tout their programming software to be easy to use. So we offer you a challenge. If you can create the sample guage faster than EZ can, with a competitor's software, we will give you our software 'FREE'



In survey after survey, the EZ Programming Software has been recognized as the EZiest to learn and use.

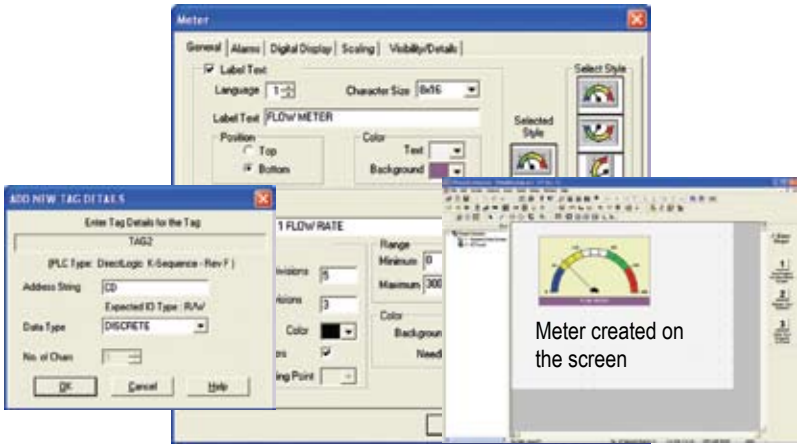
EZ Screen design challenge ...

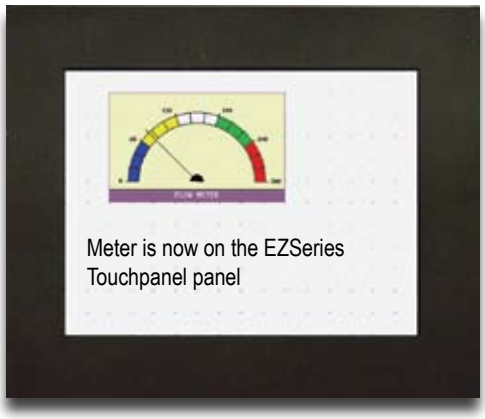
Log on to flash.ezautomation.net/eztouch/speedcontest

So here is the challenge: Design a pressure guage from one of the pre-built objects, select its range, select its color, design its label, transfer it to the real Touchpanel to see how it really looks, change its color, transfer it to panel again, change the font on its label and transfer it to the panel the third and the final time. Clock the time!!

We pre-defined the steps for EZSeries, C-More and Panelview, practiced the steps and had the same person do this exercise, here are the results...

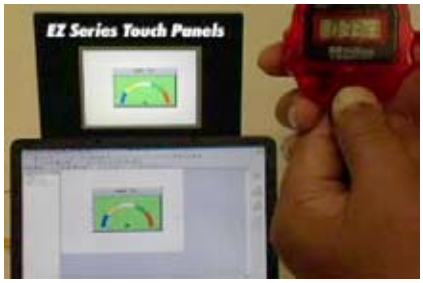
EZSeries: 33.6 sec C-More: 72.1 sec Panelview: 186 sec





Beat "33.6 sec" and your software "Free"

Innovate'n'Save™



Task / Cost	Ours	Theirs
1. Hardware Cost	$500	$500
2. Programming Software Cost	$99	$99
3. Time to program / design the screens	$400	$1200
Total	$999	$1799

The Cost for incorporating a PLC HMI Touchpanel in a project consists of
1. Hardware Cost
2. Programming Software Cost
3. Time to Program / design the screens

Sometimes the 3rd cost far exceeds the first (hardware) cost.

For example, you may pay $500 for the Touchpanel hardware, but it may take you three days to design the screens. At even a low rate of $50 per hr., that will be $1200 for screen design. Assuming the cost of software also to be a low number of $99, the total cost of implementing the project will be $1799. If the screen design time could be reduced to one day, the cost will come down to $999 saving $800 on the project!

EZSeries Touchpanel HMI offers the lowest project implementation cost of any HMIs on the market

Start-Up New Application in Less than 1 Hour

Unique Online-Programmming

THEIRS

1. Create Screen - 20 minutes
2. Compile and Download to Panel, minimum 5 minutes
3. Check it out on the Panel
4. Change colors, fonts, object sizes an average of 4 times, 5 minutes each

Time to develop and finalize one screen - 60 minutes



Innovate'n'Save™

OURS

1. Create a couple of objects
2. Click Save (also transfers to panel instantaneously) to see how they look on Panel
3. Add more objects, click save again

NO COMPILATION OR DOWNLOADS!

Time to develop and finalize one screen - 10 minutes



It's like developing screens right on your panel



You know the power of On-Line programming if you deal with machine/process start-up

During machine start-up, you can simply plug your computer into Panel's Programming Port and:

1) Create a Troubleshoot screen
2) Create a troubleshoot button on main screen.
3) Disable critical outputs
4) Monitor registers and/or specific bits in your ladder logic... ***without ever having to shut down the machine!***



1 Connect Computer to Panel



2 Create a temporary Troubleshoot Screen in "Edit On-Line" Mode

3 Troubleshoot without ever having to shut down the machine

Eliminates the need to go through hundreds of ladder rungs to troubleshoot the logic

It's like having a FREE On-Line Debug Tool

Unique On-Line Programming



Designed and built in USA by AVG with US and Foreign Content



Exclusive to AVG Panels

You wouldn't buy a PLC today if it didn't have On-Line Edit...

...So why should you have to buy a Touch Panel without On-Line Programming?

Only the EZSeries Touchpanels have On-Line Programming

Online Programming	*EZAutomation* *EZSeries*	*Automation Direct* *C-More*	*Allen-Bradley* *Panelview Plus*	*Xycom* *Proface*	*GE* *Quickpanel*
	YES	NO	NO	NO	NO

HERE IS A TRUE STORY...

1. After a machine upgrade including a new PLC and Operator Interface, our System Integrator asked the Machine Operator what he would like to see better yet. The Operator said the new "computer" was great with all the colors but he missed the old pressure gauge.

2. Our System Integrator immediately pulled out his notebook computer, hooked it up to the Touch panel, launched his programming software and put it in On-Line mode.

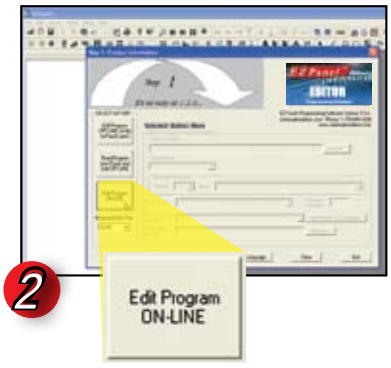
3. And then, right in front of the operator's eyes, moved the other objects on the screen and put an Analog Meter exactly to the operator's color taste, without ever having to shut down the machine.

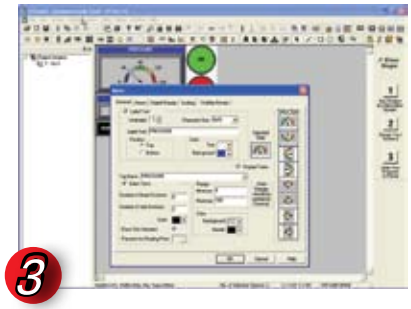
4. All this took less than 2 minutes.

Operator: "Now that is nice!" Let's get these on all the machines."











NEW

Outdoor Readability at EZ Prices!!

New Technology: Low Power, Less Heat



Tested and Proven in the Australian Desert

The Outdoor Readability of the EZSeries Transflective Touchpanels has been tested for use in the Australian Desert.

AB's Panel View Plus



$6346

12 inch Panelview Plus Transflective Touchpanel

VS

EZSeries™



$2499

EZ-T10C-FOD

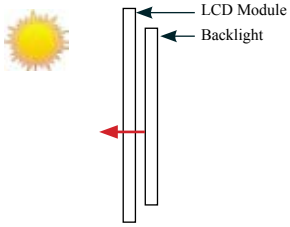
10 inch EZSeries Transflective Touchpanel



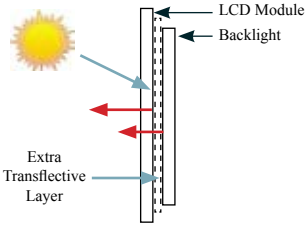
SAVING $3847

New Transflective Technology Minimizes Power Consumption and Heat

The EZSeries Transflective Touchpanel available in 6" and 10" models utilizes a new Transflective LCD Technology, allowing the screen to be visible even under bright outdoor light conditions. The transflective LCD reflects back the UV component of sunlight.



Regular LCD Technology



Transrefelective LCD Technology

Innovate'n'Save™

Starting At $1499



6" TFT Color **Transflective**

Starting At $2499



10" TFT Color **Transflective**

Note: The specifications of the EZSeries Transflective Touchpanels are identical to the standard EZSeries execpt the Brightness is 450 nits but as stated earlier, it's better than 1200 nits when compared to the older LCD Technology

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Overview of EZSeries Touchpanels with Dedicated OS



The EZSeries Touchpanels offer every bit of high-end SCADA features ad PC graphics at an incredibly low price of $199. This Touchpanel line with all the additional features, has the same EZ to use programming software across all panels, all ten models. A wide variety of serial drivers is available and we continue to add more every quarter. We also have a broad range of units with pre-installed modules to connect to the most popular field networks, legacy as well as the latest.

Product Highlights

- Dazzling graphics with 128 rich colors.
- Best in class library of pre-built objects like, 3-D Push buttons, Switches, Meters, bar graphs, line graphs, numeric & data entry objects.
- Free symbol factory, with 4000 symbols.
- Object level password protection (up-to 8 levels).
- Comprehensive alarm handling capability, with counts, details and the ability to export alarms.
- Recipe objects, allowing you to address up-to 40 registers simultaneously.
- Wide range of Multi-state objects, such as Multi-state bitmaps/indicators/messages.
- Range of Text objects, Static, dynamic, triggered and a pop-up text entry keyboard.
- Trending objects, such as line graphs, meters and bar graphs, also with floating point support.
- Utilize the built in clock and calendar, in user programs.
- Support for wide-range of data types including floating point.
- Memory expansion through optional flash and RAM cards.
- Efficiently manage your tag database, import/export tags to/from CSV or excel files.
- Export, alarms and messages to excel or CSV files, further you can embed up to 4 data variables in a message.
- Allows overlapping of the objects
- Allows free-sizing of touch objects
- Convenience features, such as pick and apply styles and display of address on objects
- Support for jpeg, gif, ico images

Expansion

- Flash memory cards, for program storage and transport. Ranging from 512K to 2 MB.
- Expandable RAM Memory cards allow you to run very large programs on the panel, up to 1 MB

** Not available on Reduced Memory "R" and 4 inch models*

Advanced Features

- Fastest Screen Design
- EZiest to Learn Programming Software
- FDA compliant
- Built-in antiglare screen
- .090" thick touchscreen
- Higher temperature specs
- Recipe management
- Animation objects
- Project simulation
- Unicode Support
- Bitmap buttons
- Thumb wheel entry object
- Visibility control over objects
- Modem support
- Distortion Free scaling of objects
- Excellent database management and syntax checking
- Screen thumbnail view

Universal Ethernet Port for PLC Networks

Select from:

- DF1 over Ethernet
- SRTP over Ethernet
- Modbus TCP/IP over Ethernet
- Ethernet IP Protocol

Industrial Network Drivers*

- AB Data Highway Plus or Remote I/O
- DeviceNet
- Profibus DP
- MODBUS Plus
- CC-Link
- EZPLC Ethernet
- Koyo/ADC ECOM

** Not available on Reduced Memory "R" and 4 inch models*

Exclusive Features

- Online Programming
- Connect to more than 90% of the PLC & networks
- On-Screen Recipe Edit
- Free built-in photo editor
- Fastest touch screen response time (typical 0.75 seconds)
- Data Acquisition over RS232/422/485 for just $99
- Design protection for OEM/SI
- Outdoor Readable Models
- Trend Object
- Vector graphics for most effective memory utilization
- Monitor tag values
- Instant Mouse over colors
- Remote Monitoring and Control over Internet/Intranet/ Modem
- Event triggered Email notification
- 2GB of local data storage on SD Card

** RMC and SD card not available on Reduced Memory "R" and 4 imch models*

Serial PLC Drivers

- Allen-Bradley DF1 Half and Full Duplex (PLC-5, SLC 500, MicroLogix 1000, 1200 and 1500)
- DH485/AIC/AIC+ for MicroLogix 1000, 1200, 1500, SLC500, 5/01, /02, /03
- Aromat Mewtocol COM
- AutomationDirect DirectLOGIC PLCs
- Baldor
- Control Techniques - Unidrive 2-wire, 4-wire (binary)
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZPLC
- GE Fanuc SNPX (90/30, 90/70)
- Idec Computer Link
- Omron Host Link (C200 and C500)
- Parker-Hannifan
- All Mitsubishi FX Series
- Modicon MODBUS RTU
- Siemens S7 MPI Adapter series PLCs
- Square D Symax - 300 Series CPU, 400 Series CPU (Symax)
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104
- Yaskawa



EZSeries™ CE Touchpanels

For Windows CE fans... We have some really cool features not available with competitors

Almost all our competitors that use Windows CE Operating System hide it in the background ...

.. EZSeries CE Touchpanels let you use the real power of Windows CE



View Video
View video file in MPEG format



View PowerPoint
Visually learn and train



View Excel
View and analyse current data



View PDF
View machine manuals in PDF format

Unique Built-in Quick Edit ... *Innovate'n'Save™*

Change your HMI Application... on the HMI itself, NO MORE LAPTOPS!



- ***Make a Quik-Edit™*** *to existing objects, screens, etc. in seconds...e.g. change colors, sizes, tag/address associations and more...*
- ***Add/Delete objects, screens, etc.***

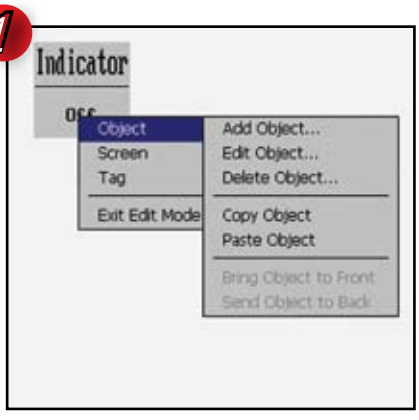
Making a Quik-Edit is as EZ as 1-2-3

In the example below, see just how EZ it is to edit a button on your existing HMI application while it's running on your EZSeries CE Touchpanel.

After switching to Edit Mode:

1) Right-click (press and hold) on an object to activate a pop-up menu
2) Select the attribute in the left pane, make your changes, and click OK
3) View the result and bask in the fact that it took you seconds!

1



2



3



This only took ***seconds!***

The Quik-Edit feature just eliminated connecting a laptop, reading the screen, making the change, and writing back to the panel again! ***Now that's EZ!***

EZSeries™ CE Touchpanels

Built-In Ethernet with 7 PLC protocols... at No extra cost! selectable via programming software

NEW

Ethernet I/P for ControlLogix
Ethernet I/P for MicroLogix
Ethernet I/P for SLC 500
Ethernet for EZ PLC

Ethernet for Automationdirect
Ethernet SRTP for GE Fanuc
Ethernet Modbus TCP/IP
Ethernet EZSeries PLCs





Allen Bradley
Micrologix







Direct logic DL205



Allen Bradley
SLC500 series



GE Fanuc SRTP



Allen Bradley ControlLogix



EZAutomation EZPLC

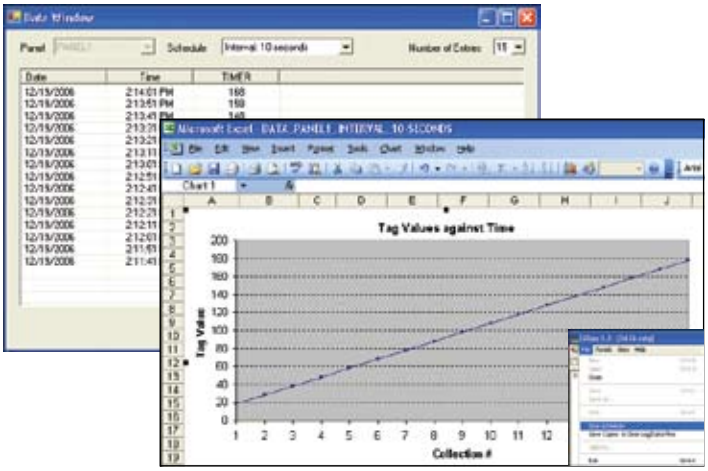


Modicon Modbus TCP/IP

Built-In Data Acquisition Software EZDaq, stores **data in ".csv" file**

NEW

Innovate'n'Save™



EZDaq software built into EZSeries CE Touchpanels allows you to specify the PLC variable, time and its trigger, the panel then collects this data which is stored in compact flash card installed on the panel. Unlike some of our competitors this data is stored in ".csv" file which can be easily imported into an excel file on your PC.

Note: you still need EZDaq software in your PC to configure the scheduler inside the EZSeries Touchpanel but once the scheduler is configured, PC does not need to be connected to the Panel for Data Acquisition.

EZSeries™ CE Touchpanels



15" TFT
starting at $2199

10" TFT
starting at $1499

8" TFT
starting at $949

8" STN
starting at $849

6" TFT
starting at $769

6" STN Color
starting at $649

6" White on Blue
starting at $399

Starting at $399

CE Specific Features

- AMD Alchemy 333 Mhz CPU
- 32 MB Flash, 64MB RAM
- Compact Flash solt
- 10/100 Basr-T Ethernet
- One RS232 Port, One RS232/422/485 Port, one USB Hoast port
- Network and I/O Card option
- Adobe Acrobat PDF Viewer
- Microsoft Excel Viewer
- Microsoft Power Point Viewer
- Microsoft Word Viewer
- MPEG (Video) Viewer
- Microsoft Word Pad Text Editor
- Internet Explorer
- Microsoft Terminal Services
- FTP Server for sending to/receiving files from a Remote Location
- Built-in EZDaq data acquisition software
- Interface to EZRMC software
- Built-in Quick-edit without laptop

The EZSeries CE Touchpanel can be configuerd to bypass all CE functions and work only with its HMI application

Product Highlights

- Dazzling graphics with 64K colors.
- Best in class library of pre-built objects like, 3-DPush buttons, Switches, Meters, bar graphs, line graphs, numeric & data entry objects.
- Free symbol factory, now with 4000 objects.
- Object level password protection (up-to 8 levels).
- Comprehensive alarm handling capability, with counts, details and the ability to export alarms.
- Recipe objects, allowing you to address up-to 40 registers simultaneously.
- Wide range of Multi-state objects, such as Multi-state bitmaps/indicators/messages.
- Range of Text objects, Static, dynamic, triggered and a pop-up text entry keyboard.
- Trending objects, such as line graphs, meters and bar graphs, also with floating point support.
- Utilize the built in clock and calendar, in user programs.
- Support for wide-range of data types including floating point.
- Memory expansion through optional flash.
- Efficiently manage your tag database, import/export tags to/from CSV or excel files.
- Export, alarms and messages to excel or CSV files, further you can embed up to 4 data variables in a message.
- Allows overlapping of the objects
- Allows free-sizing of touch objects
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Industrial Network Drivers

- AB Data Highway Plus or Remote I/O
- DeviceNet
- Profibus DP
- MODBUS Plus
- CC-Link

Advanced Features

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- EZiest to Learn Programming Software
- FDA compliant
- Built-in antiglare screen
- .090" thick touchscreen
- Higher temperature specs
- Recipe management
- Animation objects
- Project simulation
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Select from:
Ethernet I/P for ControlLogix
Ethernet I/P for MicroLogix
Ethernet I/P for SLC 500
Ethernet for Automationdirect
Ethernet for EZ PLC
Ethernet SRTP for GE Fanuc
Ethernet Modbus TCP/IP

Exclusive Features

- Online Programming
- Connect to more than 90% of the PLC & networks
- On-Screen Recipe Edit
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- Outdoor Readable Models
- Trend Object
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- Baldor
- Control Techniques - Unidrive 2-wire, 4-wire (binary)
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZPLC
- GE Fanuc SNPX (90/30, 90/70)
- Idec Computer Link
- Omron Host Link (C200 and C500)
- Parker-Hannifan
- All Mitsubishi FX Series
- Modicon MODBUS RTU
- Siemens S7 MPI Adapter series PLCs
- Square D Symax - 300 Series CPU, 400 Series CPU (Symax)
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104
- Yaskawa

EZSeries™ CE Touchpanels

Key Advantages over EZSeries with Dedicated OS

As discussed earlier, we provide our customers the choice of using either a dedicated operating system or Windows CE operating system. Also as described earlier, the migration from one to the other is seamless. Any application developed on one can be transfered to the other. Programming software is the same. For many applications, EZSeries Touchpanels with Windows CE operating system, simply referred to as CE Touchpanels, have the following advantages over EZSeries Touchpanels with Dedicated operating system;

1. Video, PDF, PPT, Word, Internet Explorer, Microsoft Terminal services and an FTP server
2. Built-in Ethernet port eliminates the additional cost of an add-on module
3. You can plug-in standard off-the-shelf compact flash module for bigger memory application
4. Quik-Edit feature allows screen design edit without the need for a Laptop

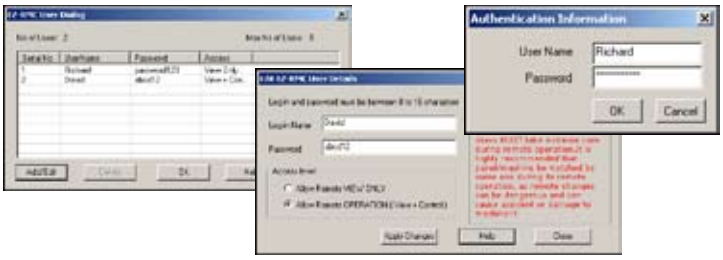
Troubleshoot your Panel/Project Half way across the World without leaving your Desk!!

NEW

Remote Monitoring and Control (RMC) allows the user to monitor and control the touchpanel anywhere in the world where there is internet. EZSeries CE Touchpanels do not require an add-on EZRMC card to perform the Remote Monitoring and Control function.

High Level of Password Security

For Obvious reasons RMC feature has multiple levels of password protection.





EZSeries CE Touchpanels do not need option **card for RMC !!**

Control Machine/Process operation through the Panel



Under multiple password security EZ-RMC software allows you to operate the Touchpanel just as if you are standing right next to it. Clicking on a mouse or entering a preset thru your PC in Chicago will perform the same actions as if an operator was doing the same on the touchscreen half way accross the world.

Monitor Machine/Process operation through the Panel



With EZ-RMC software installed in your PC you could monitor any screen on the Touchpanel addressed by the software in Real-Time allowing system troubleshooting and/or management review of the machine opertaion.

NEW

Full Featured 3.5" TFT EZSeries Touchpanel with QVGA Screen for an Incredible Price

$299

($399 with Ethernet)



EZ-T4C-FS



American Innovation
Made in USA
with US & Foreign content

Innovate'n'Save™

PC like Graphics with SCADA features

- **Advanced Alarm Management**
- **Recipe Management including On-Screen** Recipe Edit
- **Data Acquisition**
- **Pre-built advanced objects like trend graph,** meter, PID and bitmap buttons
- **Real-Time animation**
- **4000 Symbols factory**
- **Unicode enabled objects**
- **7 Ethernet protocols, $100 option**
- **Solid state LED backlight for long life**
- **Drivers for most PLCs**

3.8" Monochrome

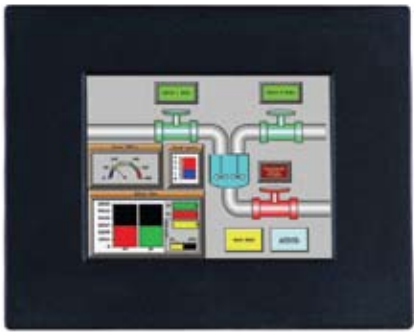
FOR JUST $199

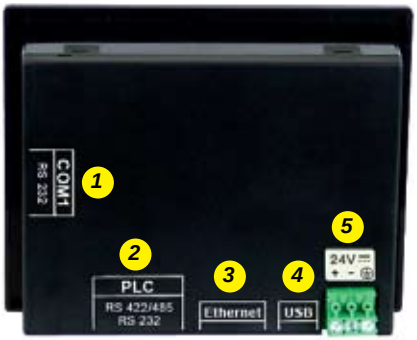


EZ-S4M-FS

What Does EZSeries Touchpanel Jr. Offer?

3.8" Mono and 3.5" TFT Models with 48 Touch Cells





1. ***COM1 Port***
   The COM1 port is a RS-232C female 9-pin D-sub connector
2. ***PLC Port***
   The PLC port is a RS-232C, RS-422A or RS-485A female 15-pin D-sub connector
3. ***Ethernet Port***
   (Optional)
4. ***USB Port***
   (Not yet released)
5. ***Removable Power Connector***

Unique High-End Features

- On-Line Programming
- Project Simulation
- Four new Unicode Enabled Objects
- Data Acquisition over Ethernet or serial port
- On Screen Recipe Edit
- Save & Edit up to 200 Recipe Variables
- Unique OEM/SI Utility to field upgrade user programs
- Animation Objects
- Unmatched alarm capability with history, count, details and password protected Alarms
- Allows overlapping of the objects
- Allows free-sizing of touch objects
- Built-In Photo Editor, Modem Support
- Multi-state Bitmap object (bit or word selectable)
- Multi-state Indicator/Message object (bit or word selectable) allows up to four embedded data variables in messages
- Bitmap Button object
- Convenience features, such as pick and apply styles and display of address on objects
- Support for importing jpeg, gif, ico images
- Built-in Symbol Factory with over 4,000 symbols
- Screen and object password protection (8 user-defined levels)
- Floating-point numbers to and from PLC
- Forty-character tagnames mapped to PLC addresses
- Import/export tags to/from Excel or CSV files - Export messages to Excel or CSV file
- Export alarms to Excel or CSV file
- Scalable meters and bar graphs
- Floating point support for Meters, Bar Graphs, PID and Line Graphs
- Screen Thumbnail View

Drivers Supported

- Allen-Bradley DF1 Half and Full Duplex (PLC-5, SLC 500, MicroLogix 1000, 1200 and 1500)
- DH485/AIC/AIC+ for MicroLogix 1000, 1200, 1500, SLC500, 5/01, /02, /03
- Allen-Bradley Ethernet I/P for ControlLogix
- Allen-Bradley DF1 over Ethernet
- Aromat Mewtocol COM
- Baldor
- Control Techniques - Unidrive 2-wire, 4-wire (binary)
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZPLC
- GE Fanuc SNPX (90/30, 90/70)
- GE SRTP over Ethernet
- Idec Computer Link
- Omron Host Link (C200 and C500)
- All Mitsubishi FX Series
- Modbus TCP/IP Ethernet
- Modicon MODBUS RTU
- Parker Hannifan
- Siemens S7 MPI Adapter series PLCs
- Square D Symax - 300 Series CPU, 400 Series CPU (Symax)
- Support for ST & Long File types in AB Drivers
- Support for full range of I/O and direct addressing of I/O for DF1 and MicroLogix
- Driver for SLC 5/05 over Ethernet (legacy Ethernet I/P)
- Support ControlLogix and Compact Logix Tag Names
- Support for Binary Files (B3:0/0) using shortcut method of B3/0, B3/1, B3/2
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104
- All AutomationDirect DirectLOGICPLCs
- Yaskawa (Memobus protocol)

Head to Head Comparison

Feature	*EZAutomation EZSeries Jr. Mono*	*Automation Direct C-More micro*	*Xycom Proface*
			
Display / Size	3.8" 340x240 QVGA	128x64	3.8" 320x240 QVGA
Graphics	Full high-end graphical Touch Objects incl. 4000 symbol library	Low-end Limited Graphical Objects	Low-end Limited Graphical Objects
Advanced Alarm	Yes	No	No
On-Screen Recipe Edit	Yes	No	No
Animation Objects	Yes	No	Yes
Trend Object	Yes	No	Yes
Bitmap Buttons	Yes	No	Yes
Serial Port	2 ports (RS232/RS422/485) D-Sub	1 port (RJ12)	1 port (RS232C) D-Sub
Price	**$199** EZ-S4M-FS	**$297** EA1-S3ML, EA-MG-BZ2, EA-M4-P1	**$425** AGP3200-A1-D24
TFT Color Models			
Display / Size	3.5" 320x240 QVGA,		3.8" 320x240 QVGA,
Without Ethernet	**$299** EZ-T4C-FS	NA	**$495** AGP3200-T1-D24
With Ethernet	**$399** EZ-T4C-FSE Ethernet/IP for ControlLogix, MicroLogix and SLC500, Modbus TCP/IP, SRTP		**$495** AGP3200-T1-D24 Good Set of Drivers

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Superb Brightness, Crisp Display, Longer Bulb life, Clarity at elevated Temp., Anti-glare Screen and Robust Hard surface 0.090" Thick Touchscreen

Brightness and Bulb life

The EZSeries Touchpanels have the best display brightness, clarity and bulb life. All TFT panels have a wider viewing angle, about 20% better nits (millicandella/sq mt luminous intensity) rating than industry average as well as longer life of its backlight bulbs rated as half brightness in a given number of hours. As you can see from the specifications, EZSeries Touchpanels have about 20% more brightness.

Brightness and Clarity at Elevated Temperatures

EZSeries Touchpanels have a better temperature specifications then most of our competitors. Typical temperature ratings for STN display is 0-40° C, where as EZSeries is 0-45° C or 50° C. Temperature rating for TFT display is typically 0-50° C where as EZSeries is rated to 0-55° C.

Display Charactersitic Table

Brightness (nits) / Bulb Half Life on Models	*EZSeries Touchpanel*	*Panelview Plus*	*C-More™*
6" White on Blue	140 nits 50,000 hrs	N/A	N/A
6" Mono	140 nits 50,000 hrs	50,000 hrs	150 nits 50,000 hrs
6" STN color	200 nits 40,000 hrs	50,000 hrs	200 nits 50,000 hrs
6" TFT color	370 nits 55,000 hrs	300 nits 50,000 hrs	270 nits 50,000 hrs
8" STN color	140 nits 40,000 hrs	N/A	N/A
8" TFT color	370 nits 54,000 hrs	300 nits 50,000 hrs	300 nits 50,000 hrs
10"TFT color	370 nits 50,000 hrs	300 nits 50,000 hrs	270 nits 50,000 hrs
15" TFT color	250 nits 50,000 hrs	300 nits 50,000 hrs	210 nits 50,000 hrs

Display Comparison under birght light at 25° C



8" TFT - 370 nits



8" TFT - 300 nits

Display Comparison at 50° C ambient



8" TFT at 50° C



8" TFT at 50° C

For product comparisons EZAutomation took these photographs as displayed above in identical settings for both products side-by-side Actual results may vary depending upon individual test and operating conditions

EZSeries Outshines even with Built-in Anti-Glare Touchscreen

The EZSeries Touchpanels have always had a built-in Anti-glare Touchscreen to improve display visibility in a typical plant environment where there may be lot of light reflections. The above photographs were taken with the standard EZSeries Touchpanels with built-in Anti-glare Touchscreens

EZSeries Sport Solid Hard surface 0.090" thick Touchscreen and not your typical paper thin Touchscreen

EZ Series Touchpanels use a hard surface (0.090" thick) touchscreen as a standard which results in :

1. No color ghosting caused by thin film touch screens
2. No Newton rings
3. Clear vision even with a anti-glare coating on the screen
4. Higher reliability for aggressive operators

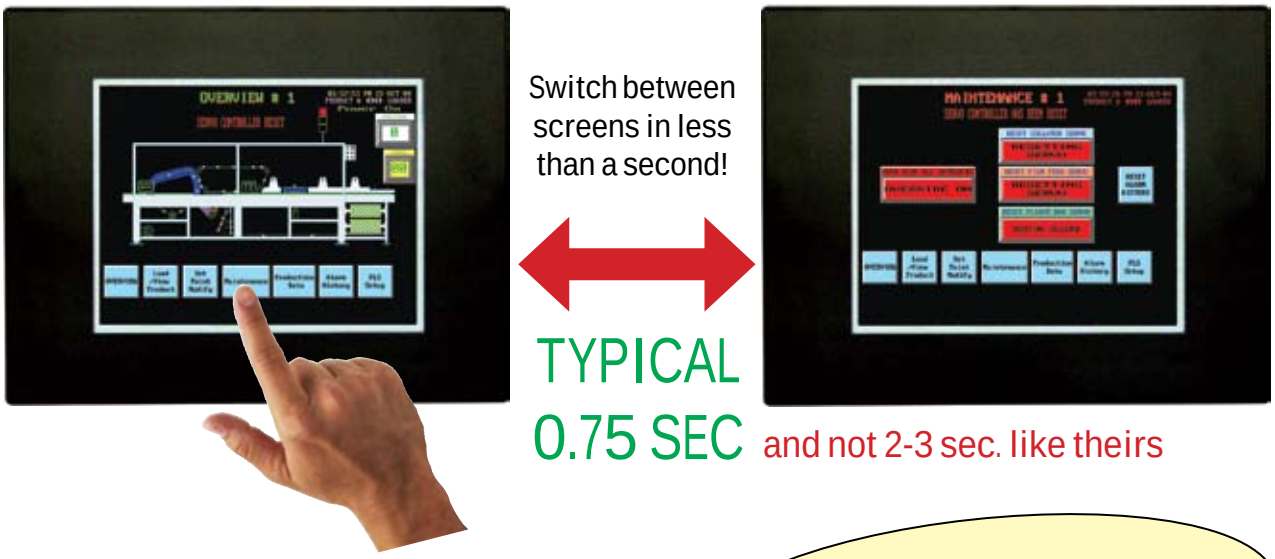
Most competitors use paper thin films as their Touchscreens



0.090" Thick standard on all Panels

Compare Our Response Time and Screen Update Time

Patent Pending



Switch between screens in less than a second!

TYPICAL 0.75 SEC and not 2-3 sec. like theirs

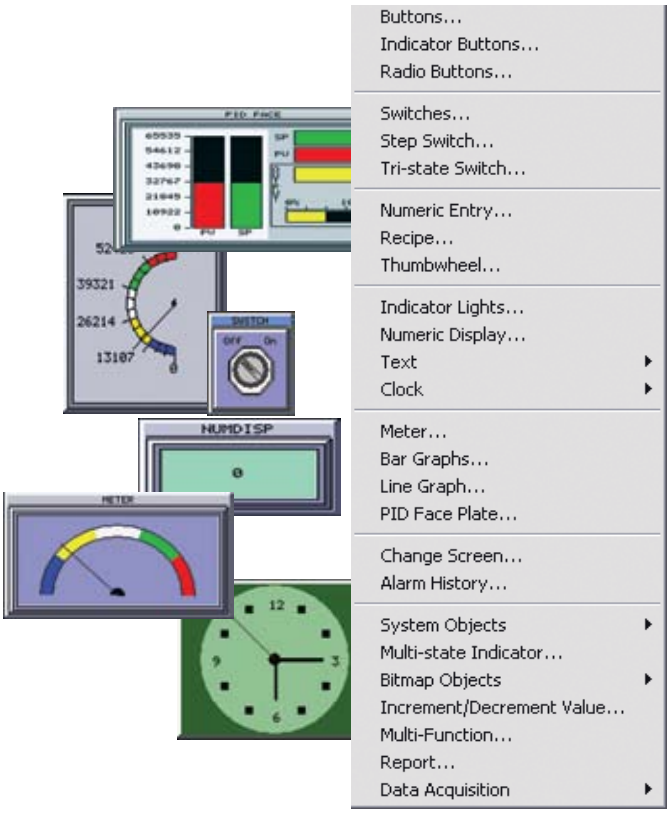


Fastest Response to Touch Input

Because of the use of vector based graphics and a dedicated OS, EZSeries Touchpanels are universally recognized as having the fastest response to touch inputs, typically less than 3/4 of a second even with complex screens. This means no waiting and also less wear on a panel from operators pounding an object on a screen waiting for a response.

Innovate'n'Save™

EZSeries Touchpanels, SENSIBLE and Operator Friendly



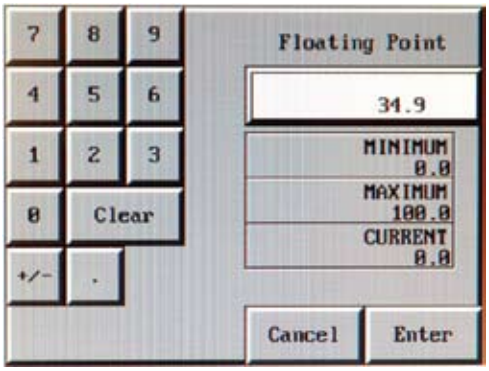
Dazzling Graphics & 256 Colors

Though extremely easy to configure, these touch panels are much more than push-button & pilot-light replacements. These panels provide high-end panel components & compelling real-life graphics that you would normally expect only on an expensive PC-based software HMI. Additionally, with 128 colors, blinking abilities, and extensive bitmap support, the unit offers dazzling graphics that would please any discerning user.

Pre-Built Panel Components (copyrighted)

In addition to pushbuttons, indicator lights, numeric entry and displays, the EZSeries Touchpanel offers panel components such as Analog Meters, PID Faceplates, Bar Graphs, Trend Graphs, Alarms, Recipes, Radio Buttons, Thumbwheels, a variety of Switches, and a rich library of Bitmaps.

Also, the user can select from a palette of 128 rich colors for all these components. Each color can be selected to blink in order to create components that will grab the operator's attention.



POP-UP Keypad allows you to **enter data into a pre-defined** PLC register.

Wide Range of Data Entry Tools

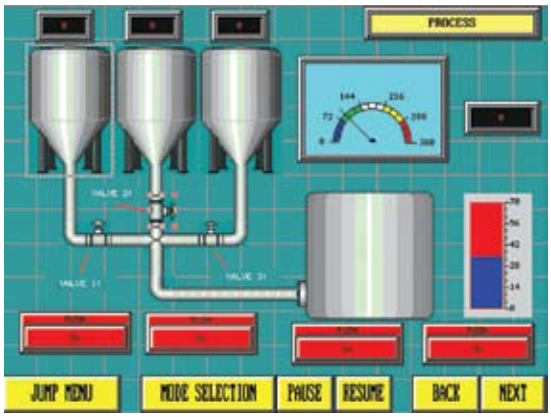
The EZSeries Touchpanel also comes with a wide range of data entry tools to allow an operator to easily enter both text or numeric data.

- A pop-up ascii keyboard, allows operators to enter part numbers and/or leave messages on the panel for another operator.
- A pop-up numeric keypad allows operators to set passwords, reset set-points and other data variables.
- Don't like numeric keypads, no problem, we also support pop-up thumbwheel switches, just like those old mechanical one's.



POP-UP Electronic Thumbwheel emulates a mechanical thumbwheel switch.

Simple to Use, Yet Feature Rich



Freely Overlap and Size Objects

Freedom to overlap and size objects is now a standard feature of the EZSeries Programming Software. You can take any combination of the objects mentioned above and overlap them on the screen, which means an operator can stick to one screen without having to navigate through several screens to execute a specific operation. Also objects on screen are no longer restricted to the touch cell grid and can be resized freely.

Innovate'n'Save™



Multiple Languages

With multiple language capabilites of EZSeries, you can now program the text for Panel components in up to 9-different languages. This means English reading operators can work with the panel in English, while the Spanish proficient operators can work in the Spanish language on the same panel. Also, with up to 9 different languages, OEMs exporting to other countries can develop programs to cover many of the commonly used languages.

Spanish GUI

EZSeries Touchpanel not only have multiple languages for operator messages, they have the option of panel setup as well as screen creation in spanish itself.





Multi-state Indicator & Bitmap Button

The multi-state indicators allow you to visualize process conditions, such as three states of a traffic light. EZSeries also offers Bitmap-based multi-state indicators, where you can use up to 256 bitmaps to indicate 256 different conditions. The bitmaps allow you to design very intuitive screens.

Password Protection

The EZSeries offers comprehensive alarming tools, allowing you to trigger alarms based on events (Bits) and values(registers), with, the values being monitored for a variety of conditions (in/out of range). The alarm history also stores details and counts and all this information can be printed or logged. Also the EZSeries offers the flexibility of not only password protecting your alarms but also every object.

Eight levels of password security for every input object.



Exclusive On Screen Recipe Edit without Laptop

Patent Pending

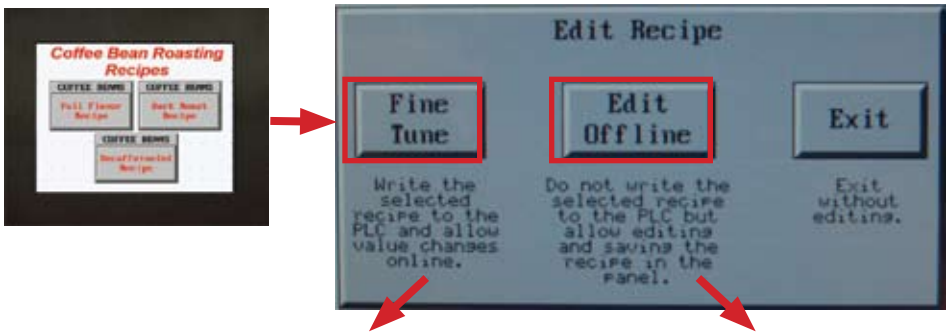
Current Methodology of Recipe Editing

Current technology in HMI/Touchscreens requires changes to recipes in the programming software on a PC. This is a very tedious and time comsuming process as it requires several iterations of Trial-n-Error before optimum "ingredients" of a recipe are discovered.



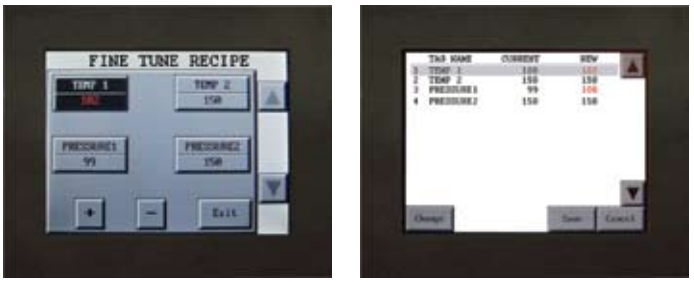
NEW! EZAutomation On-Screen Recipe Editing ... *Innovate'n'Save*™

When recipe editing is enabled, pressing a recipe button invokes the "EDIT RECIPE MENU". In this menu either FINE TUNE (make recipe changes and download to PLC in real-time) or EDIT OFFLINE (make recipe changes and save to panel; download to PLC later)





As you Increment or Decrement the ingredients of a recipe, changes are made to the PLC instantaneously. Fine-Tune your **process on-the-fly!**



Make changes to multiple ingredients on the **Touchscreen with ease! When finished, save to** Panel and download to PLC

Basics of Recipe

What is Recipe?

In the programming software, a single push to the Recipe object allows you to download a set of variables (memory table / Data Table) to the PLC.

What kind of variables can you store in a Recipe?

Any data type supported by the touchpanel (Discretes, Unsigned Integers, Signed Integers, Floating Points, ASCII, and BCDs).

How many variables can you have in a Recipe?

A single Recipe can have up to 200 variables in it.

Enabling Recipe Editing

In the programming software under Setup Menu > Project Attributes > On Panel Recipe Edit Tag, define a tag and create a button for the same to Enable or Disable the recipe editing.

On Panel Recipe Edit Tag

When you press recipe button, the value of On Panel Recipe Edit Tag determines the course of action to be taken. If the tag value is 1, recipe button goes to the Setup Mode where you can either select Fine Tune or Edit Offline mode. Otherwise, if the tag value is 0, it just writes the current recipe values to PLC.

Real Time Animation Objects

Patent Pending

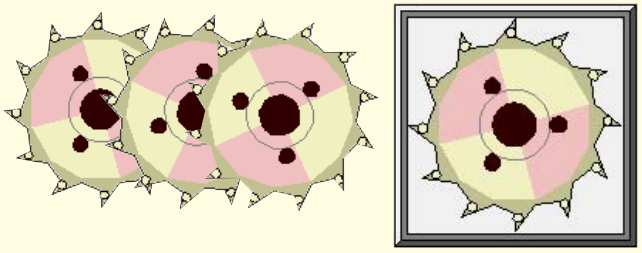
Great for the machine operators to view and understand the tool motion, machine status or the whole process in real time

Single Position

How does a Single-Position Animation Object work?

Single position animation allows you to display a sequence of images at a fixed location on the screen. The images in the animation can be updated either periodically, using a numeric tag, or when a discrete tag changes state.

For a Single-position Animation object, we have used 3 images of a mining tool.One image gets triggered, as per the tag value or set time interval.



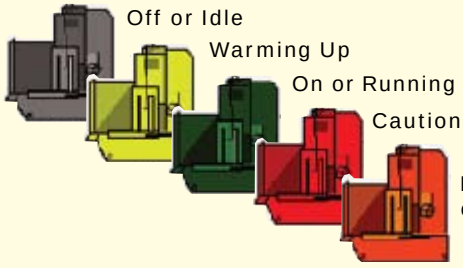
Multi Position

How does a Multi-Position Animation Object work?

Multi position animation allows you to display a sequence of images at different locations on the screen. The images in the animation can be updated either periodically, using a numeric tag, or when a discrete tag changes state.

An operator would know the condition of the machine based on the colored bitmap which is displayed. Each image is associated with a tag value.

State Awareness

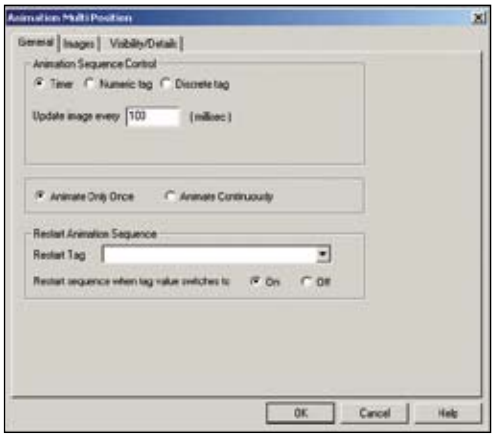


Creating a visual representation of the process



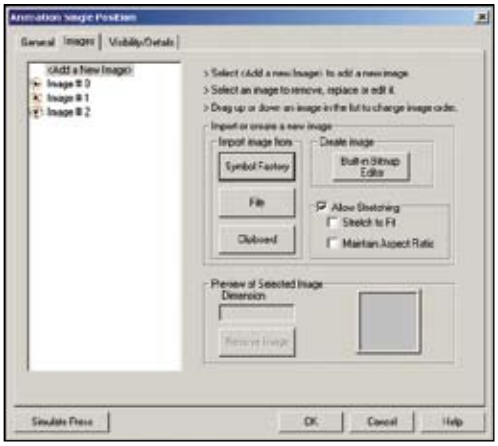
How to configure an animation object?

1. Select animation sequence control as to when the animation is triggered, either periodically (using a timed interval), using a numeric tag, or when a discrete tag changes state.
2. Select when animation occurs only once or continuously (loop control)
3. Select when to restart the animation sequence



How to add images to an animation object?

The images tab allows you to add images that are required for the animation object. Each image is automatically assigned an increasing index number. The index number determines the sequence of display of images in case of timed or discrete animation control. Of course, you may also replace and remove the images from the existing image list.



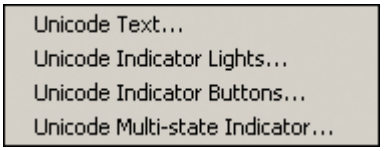
It's like animating process in real time

Unicode Universal languages

Great for the companies that are offering products to the international market

What are Unicode Objects?

Unicode objects are based on the Unicode Character Encoding System. There are four different types of Unicode Objects- Unicode Text, Unicode Indicator Lights, Unicode Indicator Buttons and Unicode Multi-state Indicator. These objects are exactly the same as their non unicode counter part objects except with an ability to use international languages.

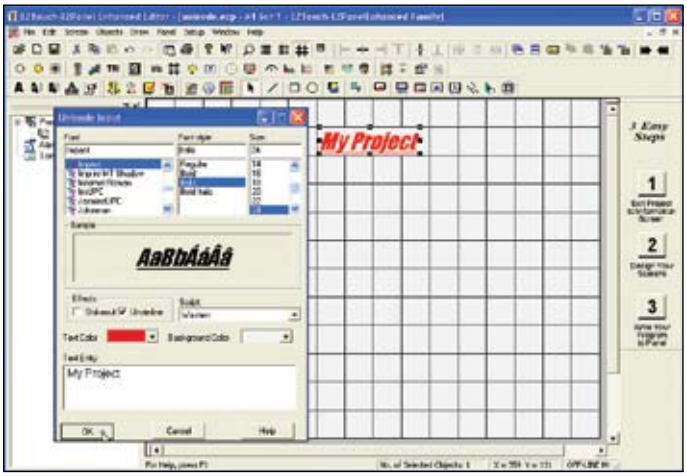


What is a Unicode System?

It is a character encoding system and can be used to create and place multilingual text using any font/script available on your PC.

Why use Unicode Text object vs. Static Text object?

Static Text object allows the user to display static text on a screen in only one custom font for EZSeries Touchpanels with pre-set sizes of 6x8, 8x16, 8x32 etc., whereas with Unicode Text object, users can use any font in any size already installed on the user PC. Unicode Text object also allows the user to enter static text in any supported International Language including complex script (e.g. Chinese) and right-to-left languages (Thai, Arabic etc).





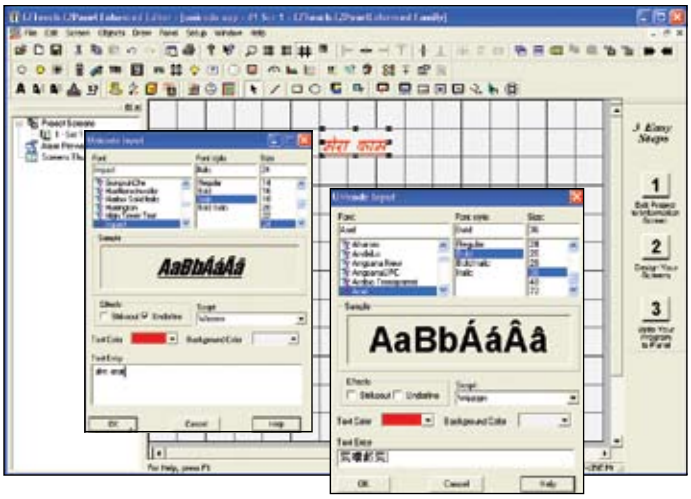


How to add Multiple Languages?

You may add different languages (Chinese, Hindi, Urdu, German, French, Japanese) to your PC through My Computer > Control Panel > Regional and Language options.

A language bar shows up on the task bar and makes it very easy to switch between the languages.





Further, Unicode allows the programmers to enhance the mutilanguage capability of the touch panel objects.



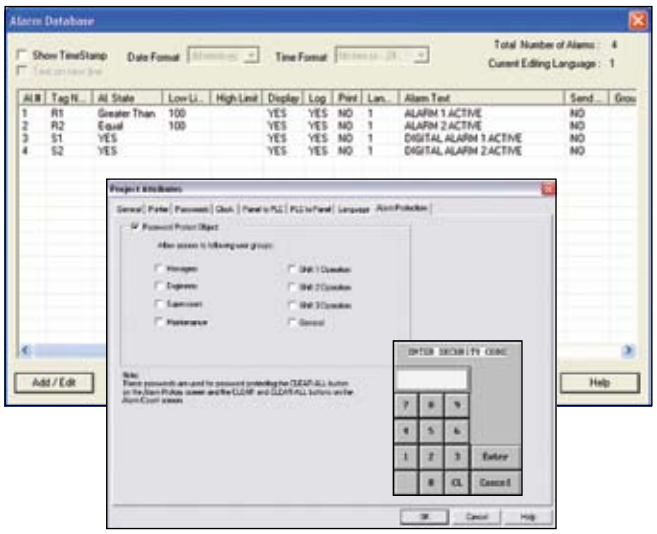
Note: In order to enter text for South Asian languages (Thai, Vietnamese, Arabic etc requiring Cyrillic alphabet or right-to-left script) and Indic languages (Hindi, Tamil etc) you might need to install additional support on your PC. For entering text in East Asian languages (Chinese, Japanese etc) using U.S. keyboard you might need to install an additional Input Method Editor (IME).

Advanced Alarm Management

Advanced Alarm Management System comprises Alarm Database, Alarm Preview, Alarm History, Alarm Count, Alarm Protection, Send Alarm to Marquee and lot more.

Alarm Database

Alarm Database is a snap shot of all the alarms and their attributes. It allows to add new alarms, edit the existing ones and embed PLC Tags in the alarm text. Max limit of alarms is upto 999. Alarm database can also be imported/exported to excel.



Triggering Alarms

Alarms are triggered by the associated PLC Tags. Our panel has advanced capabilities to monitor the state/value of the PLC Tags. If your data type is DISCRETE, you will be able to select whether the alarm will be displayed when the bit is On or when the bit is Off., whereas if the data type is other than discrete enter the limits (low or high) and define a set of condition(s) to activate the alarm.

Alarm Protection

Use the Alarm Protection feature to limit access to the Clear All or Clear buttons on the Alarm History and/or Alarm Count screens. Operator willl have to enter a password on the popup keypad to be able to use them.

NEW! Feature Now you can position your Alarm messages anywhere on the screen

Alarm Preview

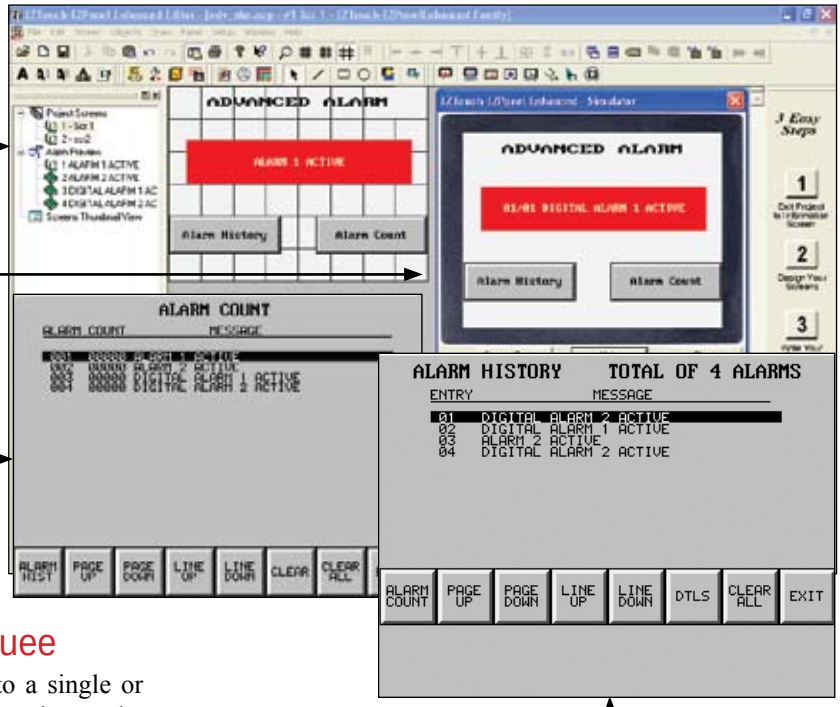
To preview and edit the alarm text. Modify the size, position and the background color of the alarm window.

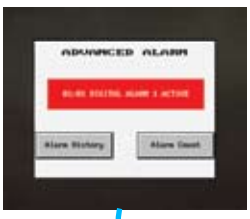
Project Simulation

You may verify the functionality of an alarm on the PC itself, obviously even before transferring the project to the panel.

Alarm Count

The Alarm Count lists all the triggered alarms and shows the total count for each alarm in a given period.





Send Alarm to Marquee

You may send the alarms to a single or multiple marquees connected to the RS232/422 port of the panel, just by configuring the COM1 port of the panel for PRINTER.



Alarm History

The Alarm History will show each alarm that has occurred with the most recent at the top. When you press the Alarm Detail button, you will get the Entry Number of the Alarm, when it was activated (time and date), when it was cleared, actual value, high/low limits, and which limit is tripped (HIGH/LOW/DIS). Alarm history can be exported/imported to excel.

Unique Visibility Tags - Allows Objects to be Hidden for Maximum Utilization of Screen Real Estate

Patent Pending

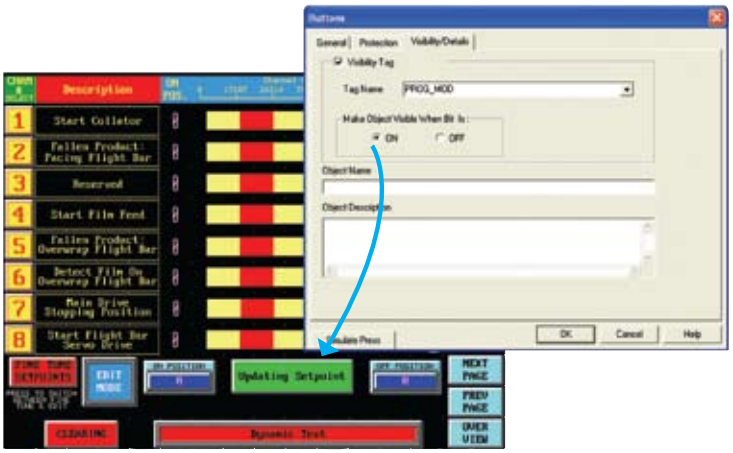
All objects have the unique ability to appear and disappear based upon both PLC tags, as well as internal tags. In the following example, we show one of the many ways Visibility Tags can be used to expand your screen.



Here is how one of our customers used visibility tags to reduce the number of screens by 30%!

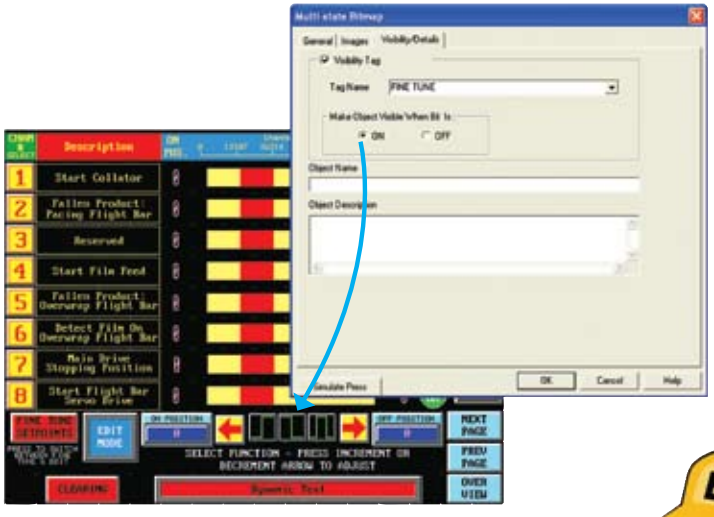
1 Normal Run Mode

Operator does not have access to changing PLS setpoints.



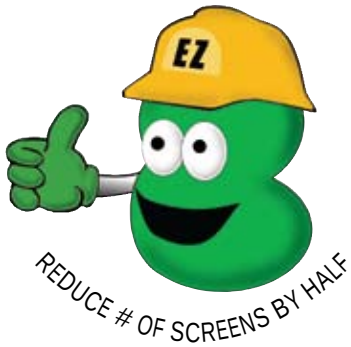
2 Setpoint Edit Mode

PLC “PROG_MOD” Tag makes three additional objects appear on the screen. “ON POSITION”, “OFF POSITION” and “Updating Setpoint” objects are programmed with “PROG_MOD” variable as their Visibility tag.



3 Fine Tune Mode

PLC “FINE_TUNE” Tag makes Fine tune objects replace the updating setpoint object. Panels without visibility tags would need screen real estate for both “PROG_MOD” objects and “FINE_TUNE” objects. Visibility tags thus save a tremendous amount of screen real estate. Its not unusual to reduce the number of total screens to half by virtue of this unique feature.



Innovate‘n’Save™

EZSeries Programming Software

Easy as 1-2-3 Programming Software

EZSeries programming software is by far one of the easiest to use programs available in the market. You have seen a presentation of our powerful objects in the last few pages. Now let's take a look at how easy and simple it is to create an object.



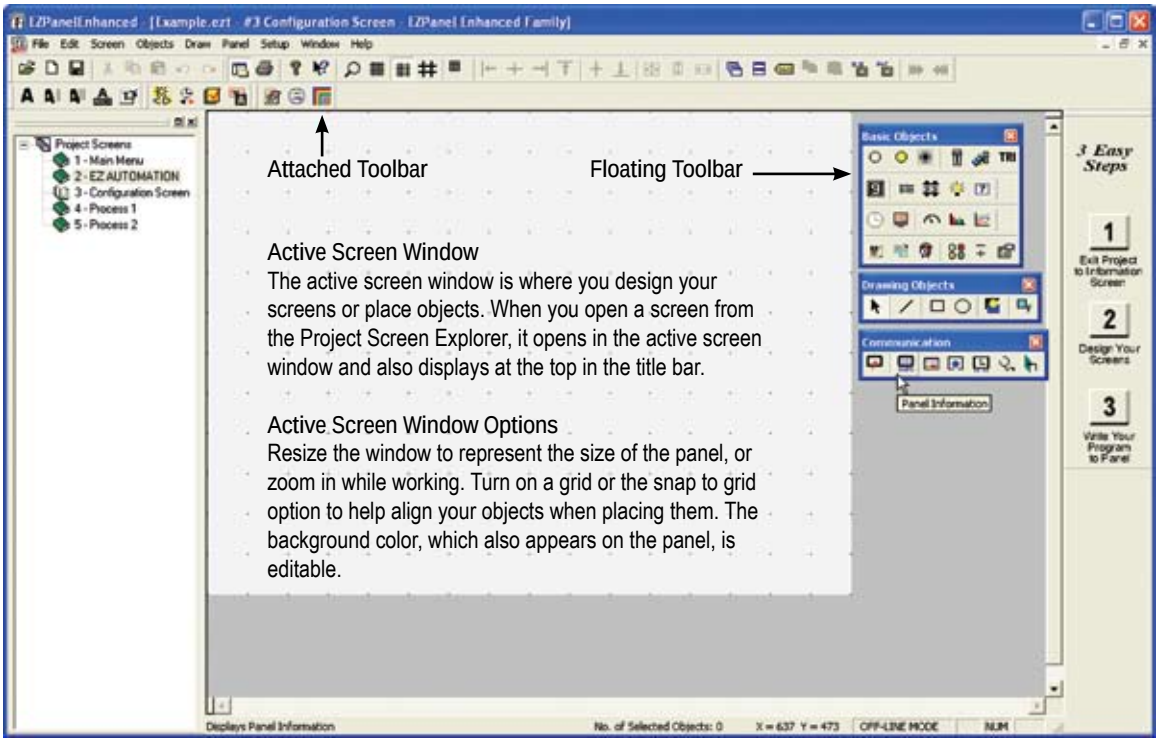
The EZSeries programming software is just like any other windows application that comes with a main menu bar with pull-down menus, tear off toolbars with icons that have the hover-over description, a main window area where the screen is designed, etc. You can also build multiple screens at the same time and display them as tiled or cascaded in the main window, as shown in the examples to the right.

Toolbars and Icons

These toolbars, whether attached or floating, contain all the icons which represent the objects, which can also be selected through the main menu under Objects. Toolbars are are fully customizable, and can be moved and resized to where you need them most. The example below shows how 3 floating toolbars (Basic Objects, Drawing Objects and Communication) have been created from pulling them away from under the main menu bar. The Communication toolbar below also illustrates how hovering over an icon will display a brief description. Click on an icon, and the associated dialog box will appear for you to begin building your object.

Main Menu Bar →

Project Screen Explorer →
This side window displays the screens that you have created within your project. To open and edit a screen, simply double click the name of the screen. The book icons also let you know which screens are currently open.



Minimum PC Requirements

- Pentium, 133 MHz, CD ROM
- 128MB RAM
- 130 MB free disk space
- WIN95/98/2000/NT4.0/XP/ XP Pro
- Color SVGA
  800x600 minimum
  1024x768 recommended

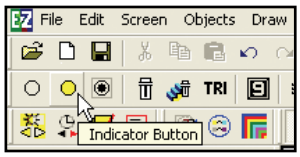
Online Programming, *Patent Pending*

Online program editing is one of the most powerful features of EZSeries panel. It lets you program your panel 'Online' without losing any precious time uploading and downloading projects to a panel. Just connect your panel to your computer, select online programming, edit, and save your entire project while your panel is online with a PLC.

In case you missed our illustration of just how important and powerful this feature is, please review pages 3-8 and 3-9 as it explains in detail this huge time saving feature!

EZSeries Programming Software

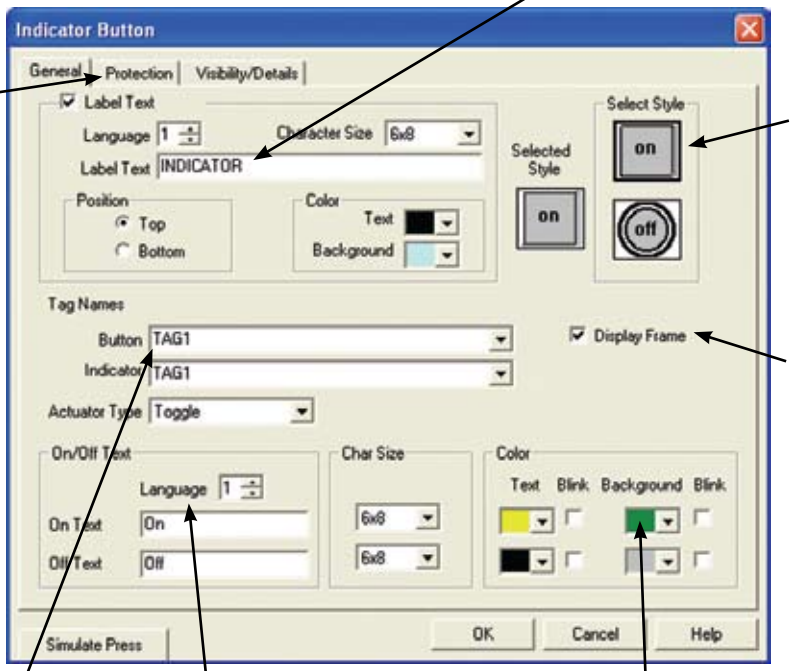
1 Using the Objects pull-down menu or an icon in the toolbar, select the object you want to create. In this example, we are creating an Indicator button.



It's as EZ as 1-2-3 to Create an Object

2 Every object has an associated dialog box, as shown to the right. The different tabs at the top contain all the prompts for creating the object for your specific needs.

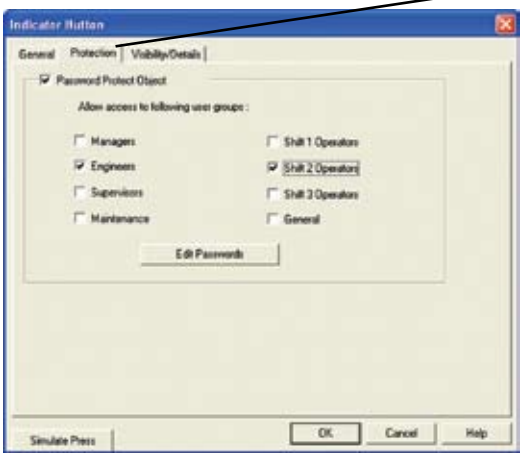
Object configuration dialog box
(Options vary upon object selected)



Custom label your objects to ensure that the objects purpose won't be mistaken.

Select the style in how you want your object to appear on the screen.

Display frame gives an object that desired 3D appearance, which can help differentiate it as a button. (Example shown at step 3)

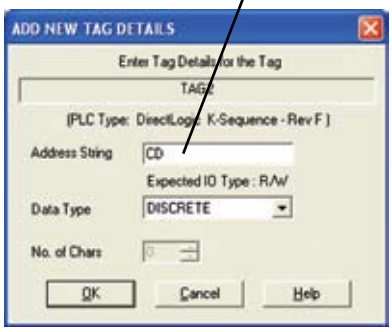


Password Protection

Allow only authorized users or certain groups the appropriate level of access with password protection, as shown above.

PLC Addressing

Type in the tagname and then right click on the name you just typed. This will bring up the dialog box to the right, to enter the appropriate PLC address string and data type, which determines how the object links to the PLC.



Color Palette

With 128 available colors for an object's text, background, label and more, making an object stand out or look as part of an organized grouping or category is easier than ever.

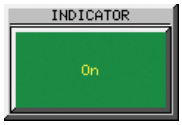


Nine Different Languages

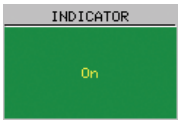
With EZSeries Touchpanel's multiple language capabilites, you can now program the text for Panel components in up to 9-different languages. This means English reading operators can work with the panel in English, while the Spanish proficient operators can work in the Spanish language on the same panel. Also, with up to 9 different languages, OEMs exporting to other countries can develop programs to cover many of the commonly used languages.



3 Once you are done creating your object, simply click OK and then click on the screen. Resize and move your object as needed. If you feel an edit is necessary, no problem! Double click the object and the dialog box will reappear. It's that EZ!!



with Display Frame



without Display Frame

EZSeries Programming Example

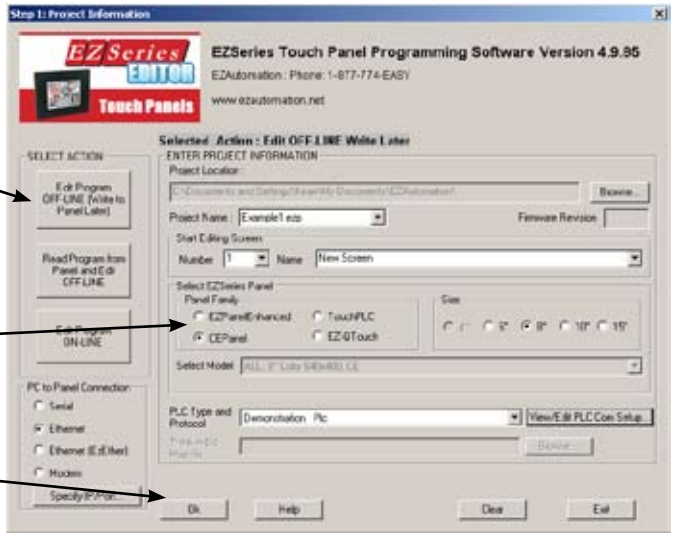
EZ as 1-2-3

1 The startup screen would provide you with options for creating and opening projects. First, choose the configuration mode: Edit offline, Read from Panel, Edit Online. Then enter your system parameters by typing in the fields or using the pull down menus.

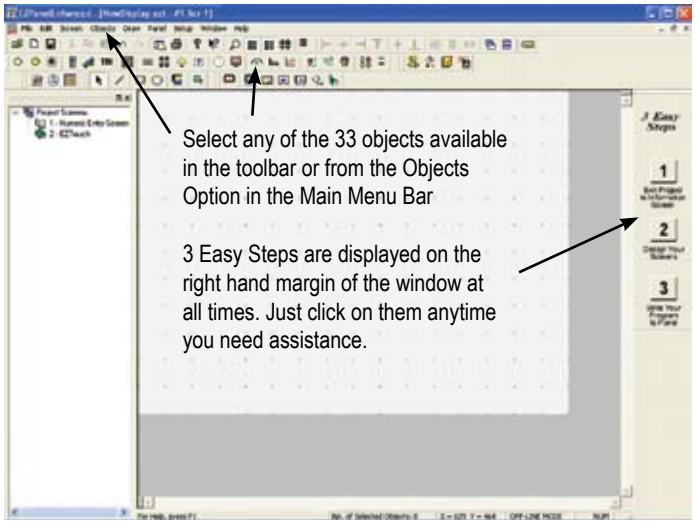
Select the configuration method from our "Online, Read from Panel, and Edit Offline" options.

Enter system information and use the pull-down menu for correct selections.

Click OK when you're done!

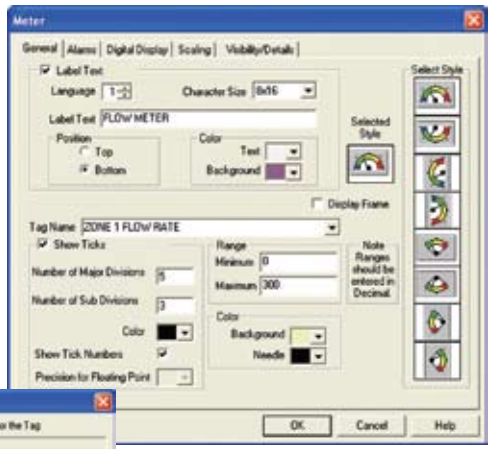


2 Once you select your options and your new/previously developed screen is open, you are ready to start creating your project using our easy to find toolbar or menu's.

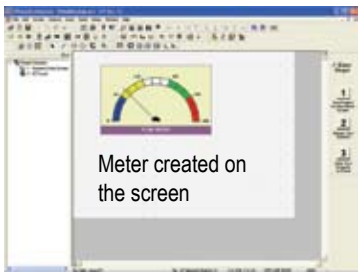


Complete the Dialog box (on the right)

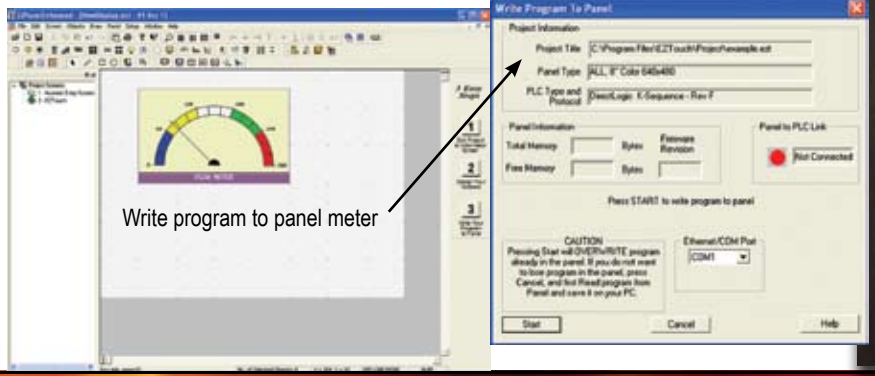
And the PLC assignment (below)

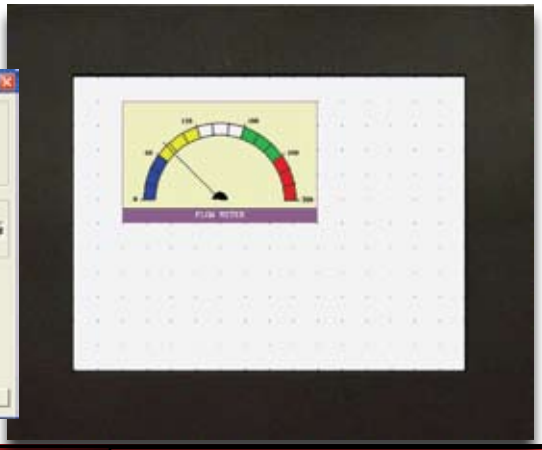






3 Click the "Write Program to Panel" button, click OK, and you're done!
Or just click Save if in Online Mode.





EZSeries Programming Software

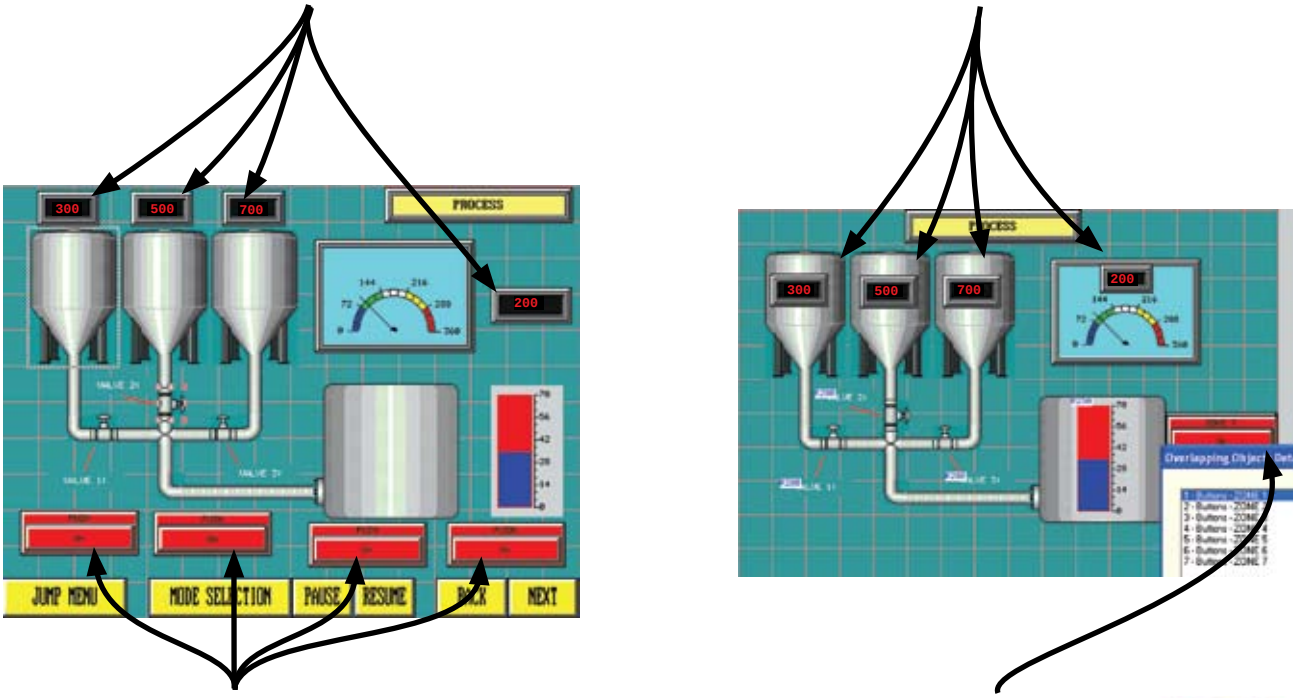
NEW
CONVENIENCE
FEATURES

EZSeries Programming Software is also compatible with the original EZTouch. This enhanced programming software supports all the new PLC drivers as well as new convenience features requested by our customers.

Overlapping of Objects

Many times, an operator will want a great deal of information available on one screen at any given time. Getting all this information to fit, however, can be quite a task. Allowing objects to overlap is just one more way you can save a great deal of screen real estate.

Now you can overlap objects, for example a numberic indicator, **on top of other objects such as dynamic bit maps or meters!**

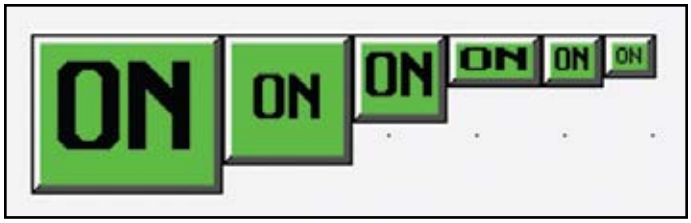


Recipe buttons can be overlapped to change up to 40 operations at a time.

NO COURSE
EZ SOFTWARE
REQUIRED

Free Sizing of Touch Objects

EZSeries Touchpanel's Enhanced programming software allows the free sizing of all objects without snapping to the grid or the actual object itself snapping to certain dimensional sizes. You can make all objects as large or as small as you want them to be.

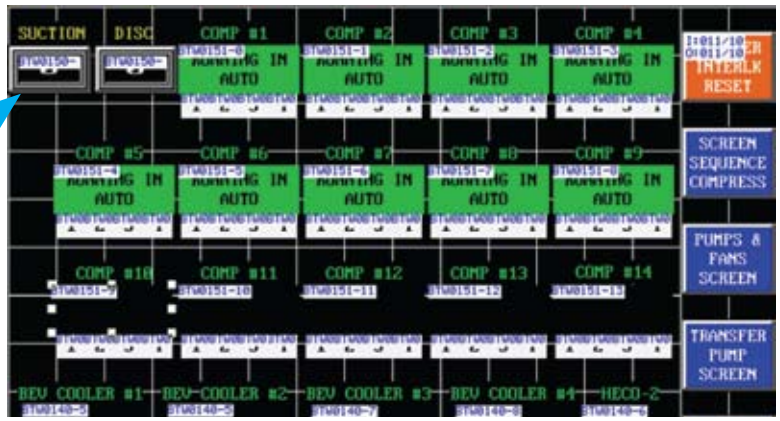


EZSeries Programming Software

Innovate'n'Save™

Display of Tag Addresses on Objects

The PLC addressing uses Tag names, so that you can associate meaningful, easy-to remember names to the addresses. Additionally, tags are useful if you use different PLCs with the same HMI program. You will only need to design the HMI program once! Then just change the tag definitions to match the PLC you have to use - a wonderful time saving feature!



The enhanced ability to display tag addresses on the objects allows EZier screen development and troubleshooting. Here we are showing the tag address for block transfer on AB's Remote I/O.

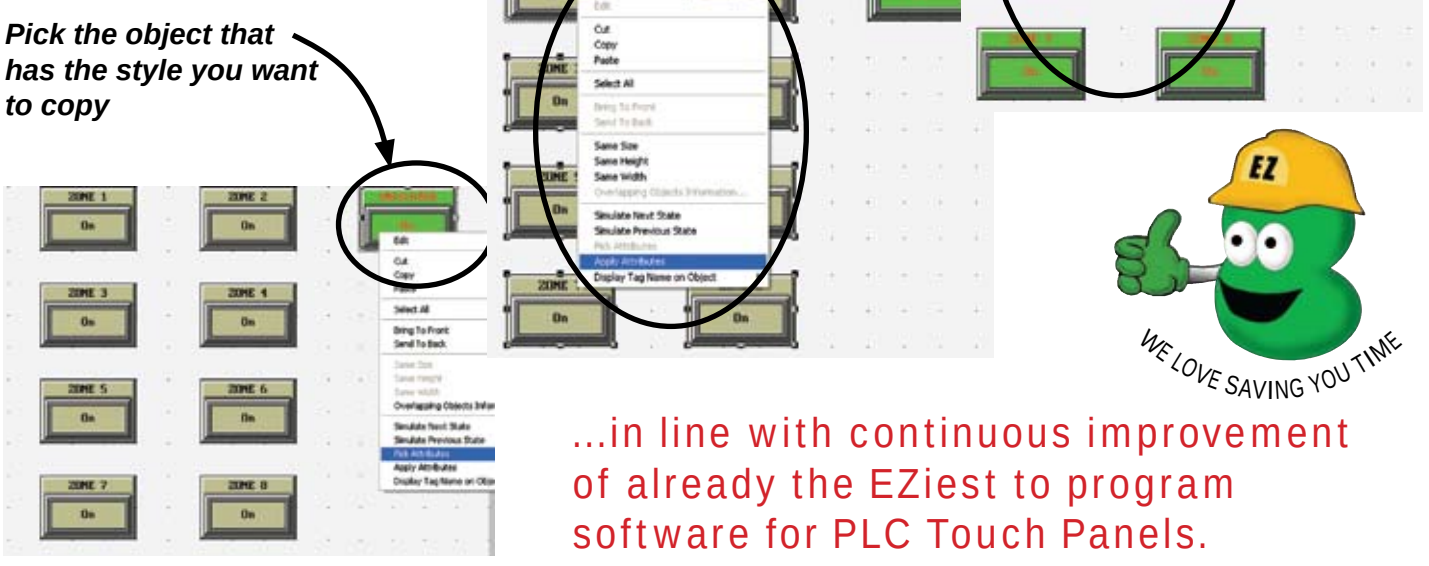
Pick and Apply Styles...

When designing screens, there are many attributes assigned to objects, such as object's colors, object's shapes, text sizes, text colors.. All these details in completing a style for the screen takes a great deal of time. This feature allows the ability to "copy and paste" these styles from one object to as many as you select. Another wonderful time saving feature!

The object's style that was picked has now been applied to the other objects

Select all the objects where you want the style to apply

Pick the object that has the style you want to copy



...in line with continuous improvement of already the EZiest to program software for PLC Touch Panels.

EZiest to Use Programming Software

In Continual State of Improvement

Project Simulation

1 What is Project Simulation?

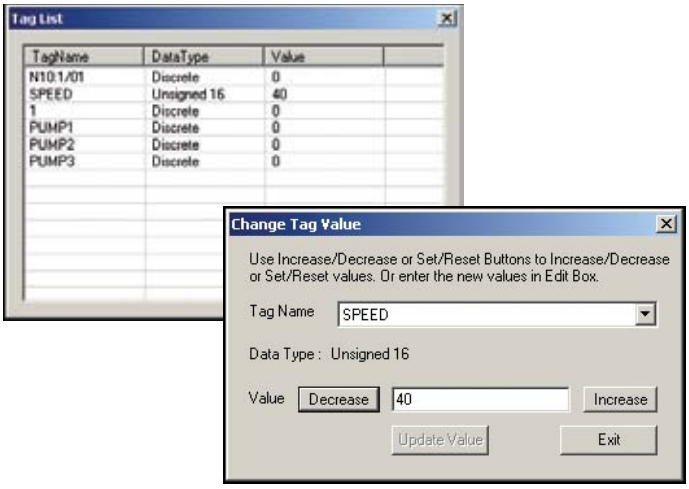
This feature allows you to simulate, interact, navigate and debug an entire project right on your PC, before you transfer it to the panel. It ensures that your project looks and operates exactly the same way you intended.

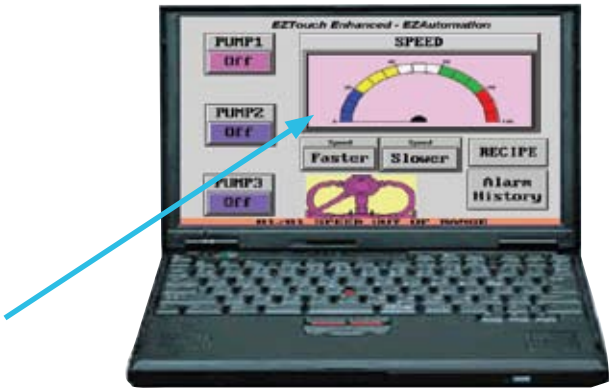
2 How to Interact with the Objects?

On the PC you will have to click on the objects, as you do touch/press them on the panel.

3 How to test the functionality of the Objects?

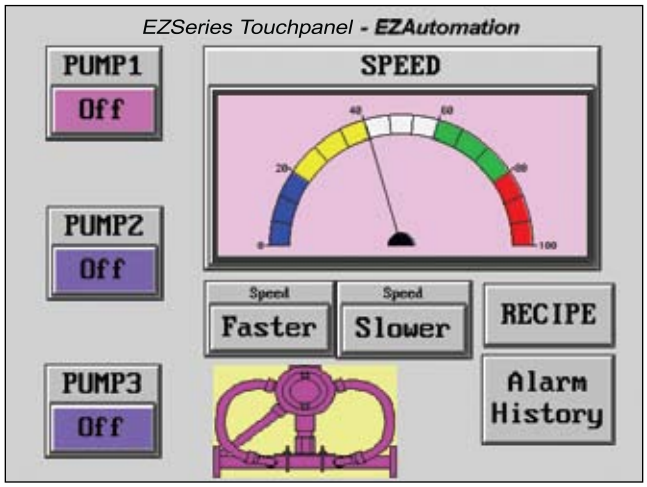
By changing the tag values of the objects and view their responses. Tag values can be changed either in the tag list or in the separate dialog boxes by right-clicking individual objects.





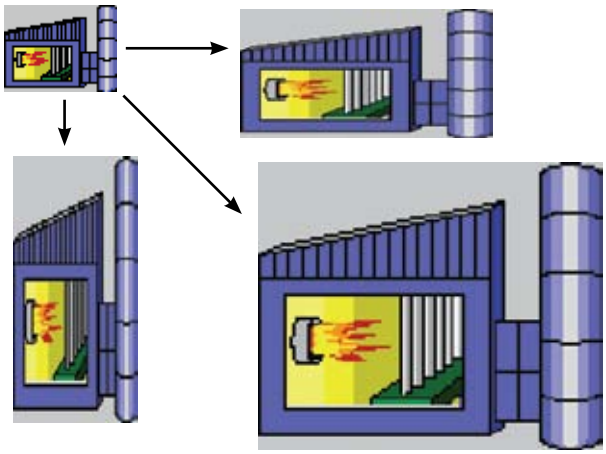
4 What is the purpose of Screen Capture?

This is an option to take the screen shots of the simulator screens and save them for further references. Basically, screen shots give you an idea that how the panel screens will look like?



Distortion Free Sizing of Objects

The EZSeries Programming Software has a patent pending feature that saves the programmer from having to size a bitmap in another photo editing software, and then bring it onto the screen. You can size an object whichever way you want it within the EZSeries Programming Software itself. It saves you the headache of going back and forth between two software programs.

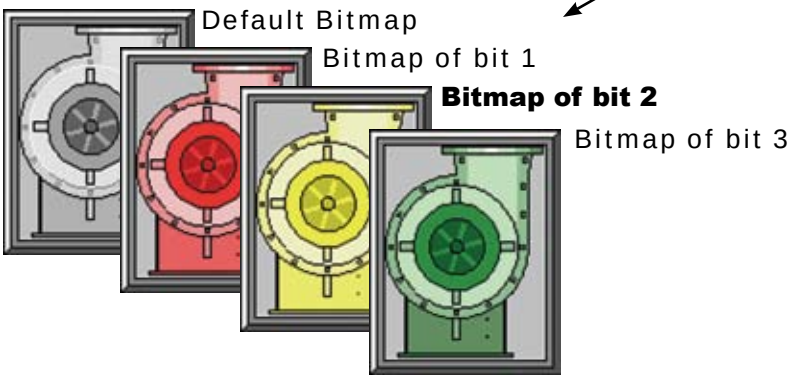


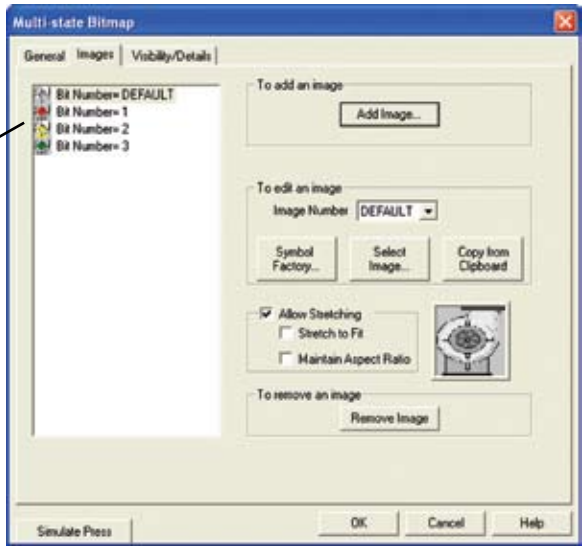
EZSeries Programming Software

Advanced Bitmap Objects

Multi-state Bitmap Object

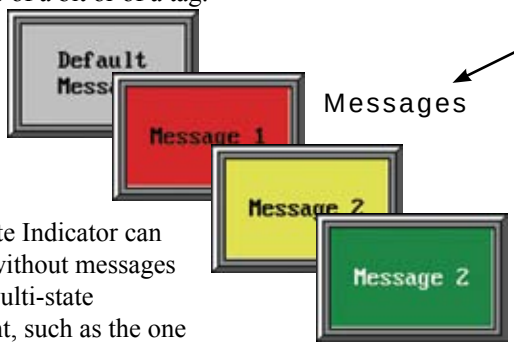
This object displays images within a given frame on the EZSeries Touchpanel. The object displays one image at a time based upon the bit that is on or the value of a tag. The maximum number of images is limited only by memory size. Our bitmaps use significantly lower memory because of our vector graphics.



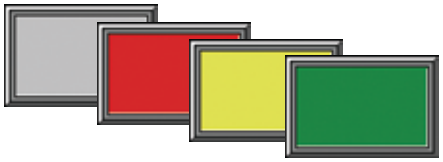


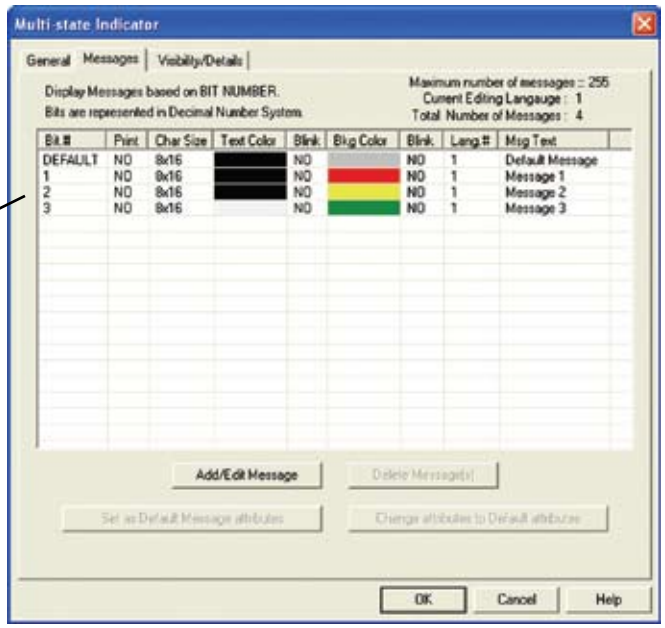
Multi-state Indicator Object

The Multi-state Indicator Object has been created to display preprogrammed messages within a frame on the EZSeries Touchpanel. Each object has its own message storage and does not need an external database. 256 messages can be displayed based upon the value of a bit or of a tag.



The Multi-state Indicator can also be used without messages as simply a Multi-state Indicator Light, such as the one shown here.



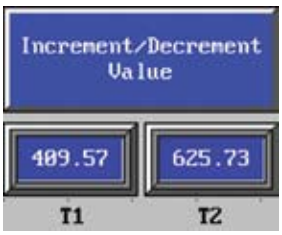


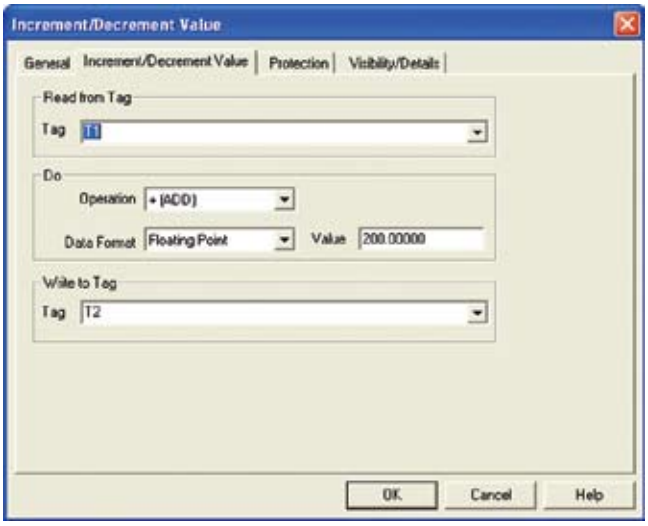
EZiest to Use Programming Software

More Convenience Features

Increment/Decrement Value Object

This object allows you to program a button that allows addition or subtraction of a preprogrammed value read from one tag and written to another as shown to the right.

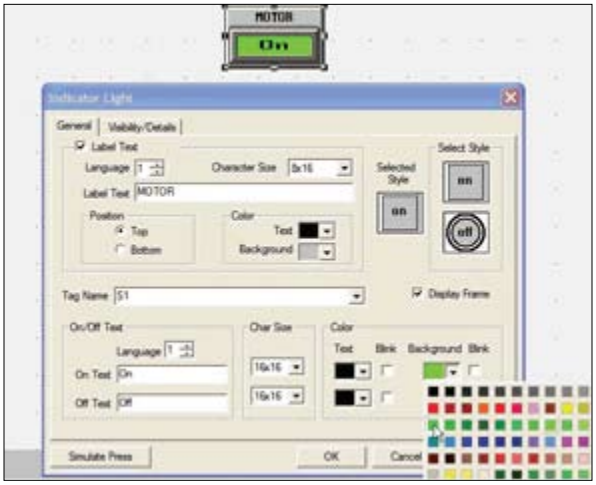




Instant Mouseover View of Colors

Instantly see your color selections as you mouseover the color palette

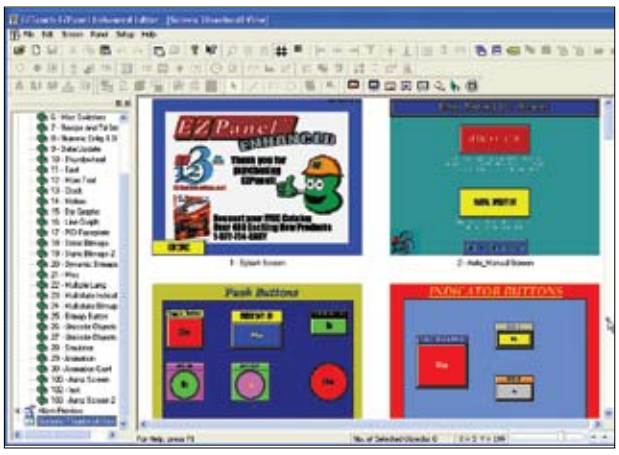
It is a simple but great idea not found in many of the leading HMIs in the market. When you mouseover different colors, you will simultaneously see it on the target object. No guess work! It speeds up project development. Couple it with our instant transfer (on-line programming) from PC to the Touchpanel, you create and enjoy your graphics with ease.



Screen Thumbnail View

Convenience to Speed up your Large Project Development Time

EZSeries Programming Software's Screen Thumbnail View is a unique and time saving feature for the convenience of programmers to avoid searching for one screen when there are more than 100 screen's in the software. On the right side of the Project tree we can find a screen thumbnail view which helps us to search the screen in minutes reducing the large project development time.



EZiest to Use Programming Software

Now with Built-in Photo Editor at no extra cost!!

NEW

The EZ Series Touchpanel editor has raised the bar further in HMI software by including an exclusive, advanced, patent pending, bitmap photo editor that allows any bitmap being imported (such as from the 4000 symbols library) to be edited almost like "Photoshop" within the EZ Software itself.

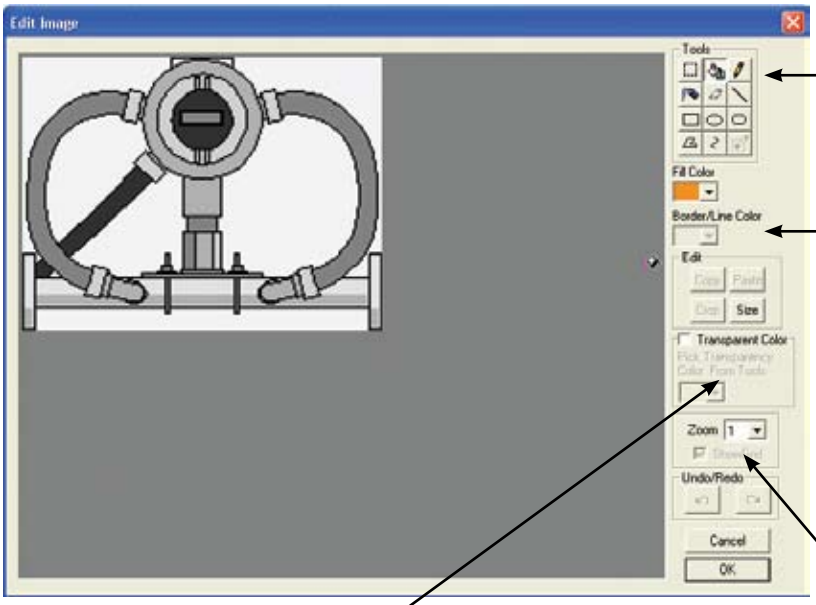
It eliminates the need to :
1. Have "Photoshop" or "MSPaint" program installed on your computer
2. Bring the bitmap into "Photoshop", edit it and then import it back to the HMI program



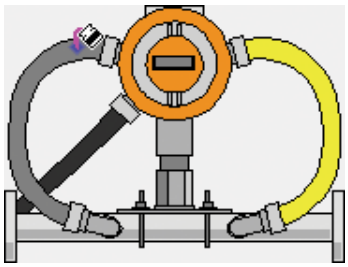




Innovate'n'Save™

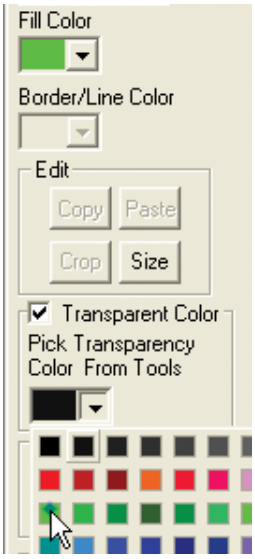


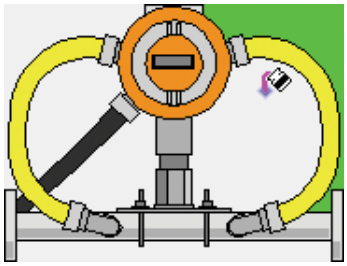
Built-In Shapes, Drawing Pencils, Spray Cans, Eraser and more ...



Fill Color

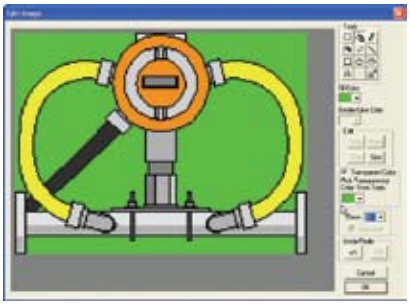
Fill the color on the bitmap of your own choice from the color palette.





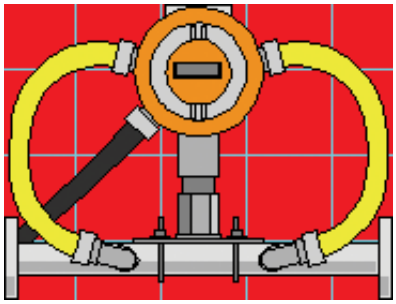
Transparent color

The transparent color is used to make all areas of that color which is the same as the fill color to be invisible or transparent.
In the above example the green fill and transparent color makes it invisible or transparent.



Zoom Tool

Zoom tool has 1 to 4 level , making edits in tight spots is no longer a problem. For pixel-per-pixel level detail there is a zoom level 4



Final bitmap Image

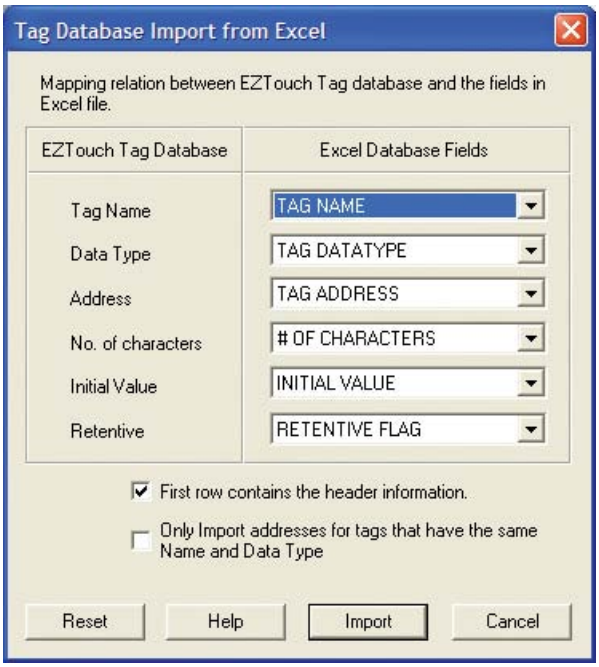
The built-in photo editing feature in EZSeries software eliminates the need for photoshop on your PC

EZSeries Programming Software

Database Management

Import / Export of Tag Database

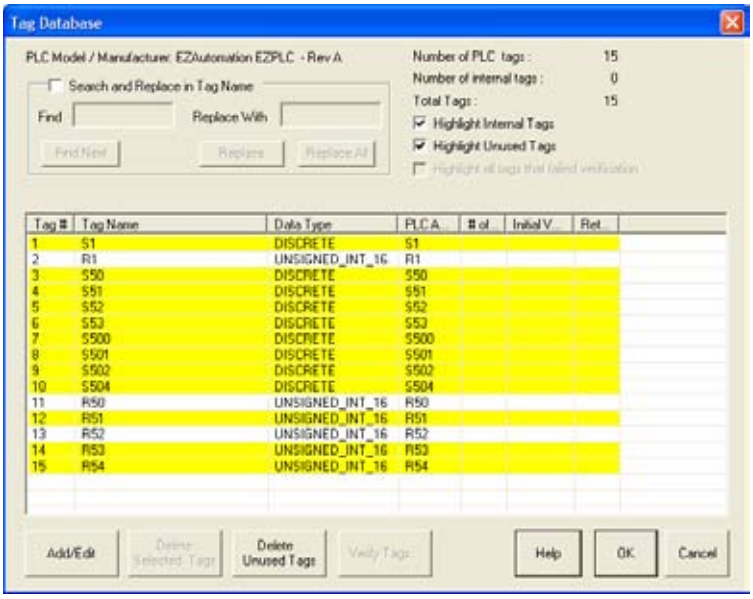
EZ Series programming software allows both import and export of tag database from and to an Excel sheet. This saves a tremendous amount of time when developing PLC software using the same tag names.



The enhanced ability of Import/Exporting the tag database, Highlighting the unused tags, and Instant Syntax checking makes it extremely convenient for the programmer to manage his/her project.

High-light Unused Tags

The Tags in the EZ Software can easily be sorted by name, by type and by PLC address. On top of that you can high-light unused tags in yellow to make it EZ on the programmer to manage his/her project.



Innovate'n'Save™

...in line with continuous improvement of already the EZiest to program software for PLC Touch Panels.

Instant Syntax Checking

The EZ Series Touchpanel software is unique in that, it checks the address syntax of all the PLCs and PLC Networks supported, before the address is allowed to be entered. This feature saves a tremendous amount of time in implementing an HMI PLC Project. **You find your errors at the time of making the error not when you are finished and saving or downloading the project.**



EZDaq Data Acquisition Software

$99 ADD-ON

Log Data For Any PLC Tag

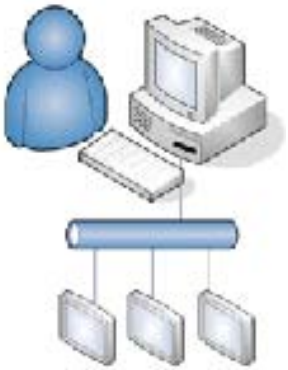
Available on RS232 Serial Port as well as Ethernet

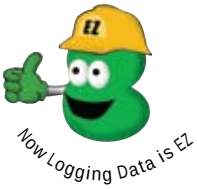
It's as EZ as 1-2-3
collect, save and store PLC tag data

What is EZDaq?

EZDaq is a data acquisition utility, designed to collect and save tag data from one or more (connected and running) EZSeries Panels.

Innovate'n'Save™



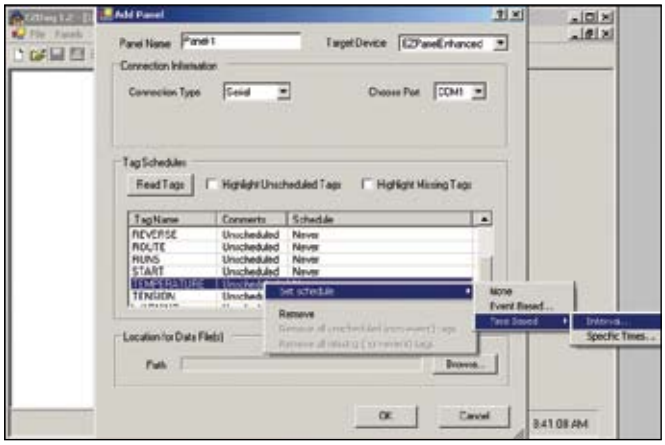


What kind of communication medium is required?

EZDaq works on both **Ethernet** as well as **Serial** communication medium.

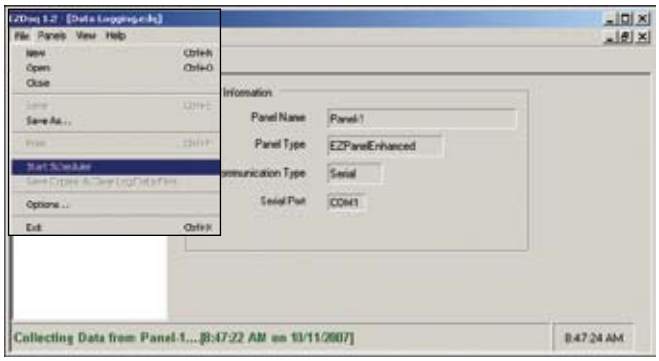
How does it work?

1. Run the EZDaq application on a PC to create a Data Acquisition Schedule file.
2. Specify the tags and a schedule for each tag for data acquisition.
3. The Schedule can be set either on the basis of time or an event.



4. While creating the Data Acquisition Schedule file, Panel (from which data has to be collected) must be connected to the PC.

5. Once the Schedule file is created, the application can start collecting and storing acquired data.

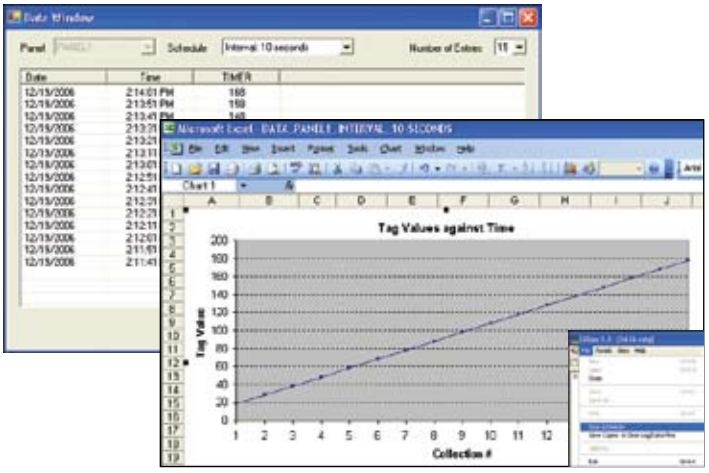


6. *For the EZSeries CE Touchpanels, you have an option to collect the data on the panel itself but to create the Schedule file, you still need a PC.*



How to view data?

Data files are organized in a convenient user selectable format (tab delimited or CSV) and can viewed in excel or any text editor.



EZSeries Touchpanel Objects

Simple yet Powerful Objects that Look Great... Now that's EZ!

This and the following pages describe the majority of the objects in the EZSeries editor. For detailed description of more advanced recently introduced objects. refer to pages listed.

On-Screen Recipe Edit - ***Page. 3-26***
Real-time Animation Objects - ***Page. 3-27***
Unicode Objects - ***Page. 3-28***
Advanced Alarm Management - ***Page. 3-29***

Pushbutton



Allows you to write to a tag, and offers 5 types of button states: Momentary ON/OFF, Set ON/OFF and toggle.

Indicator Pushbutton



Combines a regular pushbutton with an indicator light, allowing you to write to one bit and read from a second location, determining what the button displays.

Radio Pushbutton



One button can be on at any given time. When a button is pressed it releases any button that may be on, and becomes the active button.

Switch



Simulate mechanical switches of the same type, e.g.; Throw, selector, slide, toggle, etc.

Step Switch



Simulates a mechanical step switch, allowing simaltaneous monitoring & control of up to 4 different bits.

Tri-State Switch



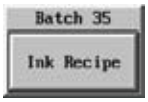
This object controls two bits at a time from 2 different tags. If the first button is pressed, both the bits are off. If the second button is pressed, the first bit on and second bit is off. If third button is pressed, the first bit is off and the second bit is on.

Numeric Entry

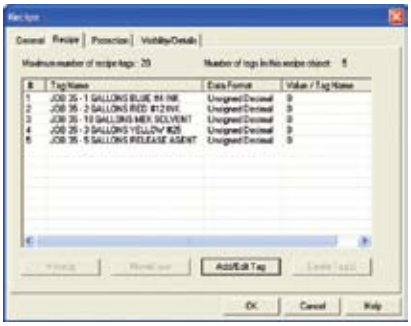


Write a value to a PLC register. A numeric keypad will pop up when this object is pressed on the screen.

Recipe



Download up to 20 preset or variable PLC registers per recipe in the EZSeries Touchpanel. This object can also be used to set values in PLC registers to change a process all together!



Thumbwheel



Simulating a mechanical thumbwheel, this pop-up thumbwheel allows operators to scroll each digit up or down, then "ENT" to download entry to the PLC.

Indicator Light



Monitor and display the state of a bit. For example, the indicator light could display the status of a bit linked to a push button.

Numeric Display



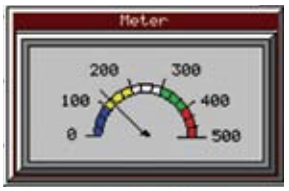
Display a numeric tag value on the screen within a frame.

Analog Clock / Digital Clock



Two options for displaying time.

Meter



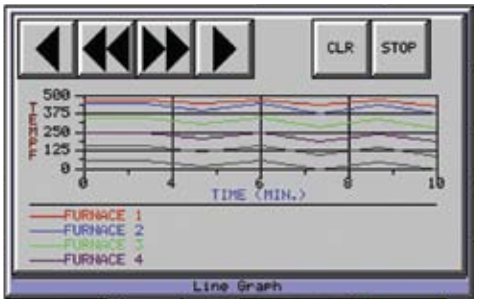
The meter object is an excellent graphical representation of an analog gauge, such as a speedometer or thermometer. Custom design the color bars for alarm zones, select the number of divisions to be displayed and the values of the meter.

Bar Graph



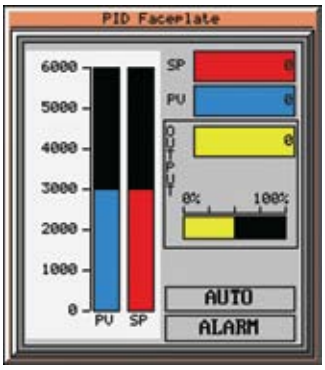
Allows you to monitor and display a tag value in a bar graph form on the screen. The bar graph can be displayed in various formats and can be programmed to read from top to bottom, left to right, right to left, etc.

Line Graph



Monitor specific tags and display the value of these data tags as they change over time. You can custom design the legend for X and Y axis and assign labels to major "tic" marks on a chart. This object also has VCR type forward/backward controls to view historical data.

PID Faceplate



Use our PID faceplate for PLC systems capable of PID loops. PID faceplate allows you to display values for three PID loop controlled parameters in the form of bar graphs. These graphs then provide valuable and timely process information. This object also monitors two discrete bits: Mode Bit and Alarm Bit, telling the operator whether the process is in Auto or Manual mode, and if any alarm for the process is active or not.

Screen Change



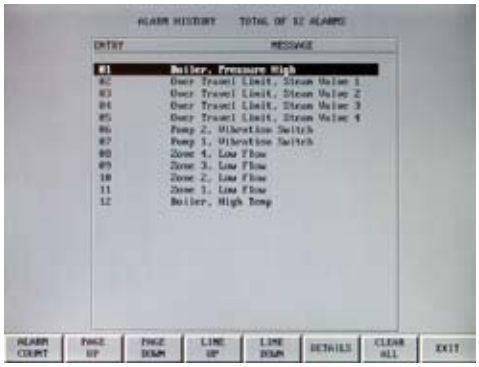
Use this object to jump or change to (display) another screen.

EZSeries Touchpanel Objects

Alarm History

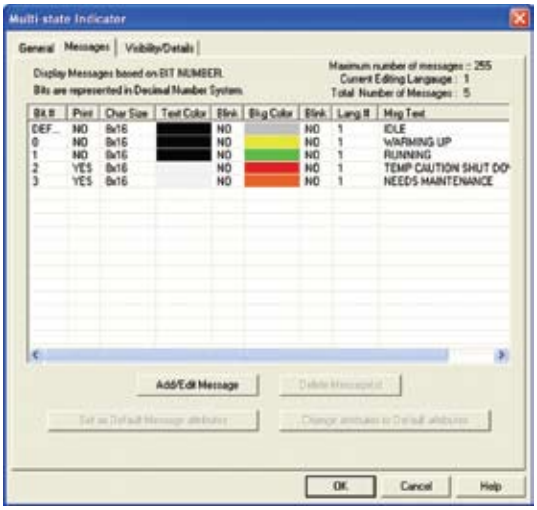


Use our pre-built Alarm History button to show Alarm Count and Alarm History with one touch of a button. Alarm History displays all the alarms triggered sequentially with the most recent one right on the top, whereas Alarm Count displays the exact number of times a certain alarm has been triggered. Use this great preventive maintenance tool to replace any components that need to be changed. Any time an alarm is highlighted and selected, it will show you all the details that you'll ever need to know including the time it was triggered, the time it was cleared, date stamp, upper and lower limits along with the limit that tripped an alarm.



Multi-state Indicator

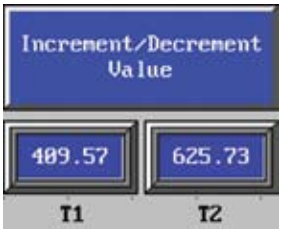
Display preprogrammed messages within a frame. Each object has its own message storage and does not need an external message database. Up to 256 messages can be stored, and the one message that is displayed is based upon the value of a bit or a tag. Messages can also embed data variables. In addition, this object can be used as an indicator light, displaying only colors without messages.





Increment/Decrement Value

This button allows addition or subtraction from a value using two predefined tags and a preprogrammed value. Once pressed, this object will read the value from the first tag, add/subtract the value defined, and write the new value to the second tag.



Static Text



Place text anywhere on the screen to provide information, screen description, etc. As with any other object, you can fully customize the colors and size, choose whether to display a frame or not, and whether or not you want its background to be transparent.

Trigger Text



This object monitors a bit to display different text strings for "ON" and "OFF" conditions. This would be used in applications where you want to provide a message or a description of the process or condition.

Lookup Text



Similar to the Multi-state indicator object, create a Lookup Text object to display pre-programmed messages within a frame on the screen. The difference is these messages are stored in the "Message Database" which acts as a global database for any lookup text object to reference throughout the project. A value corresponding to the tag name is the message number that will be displayed inside the frame. Messages are numbered from 1 to 999, so if the value corresponding to the tag name is 10 for example, the message number 10 will be displayed.

Dynamic Text



The Dynamic Text object will allow you to display the characters from ASCII values stored in a Tag. The tag will read a block of registers in the PLC. Each 16-bit register in the PLC can contain 2 ASCII characters. The maximum number of PLC registers in the block is 20 (a maximum of 40 ASCII characters). This object is typically used for displaying part numbers, VIN numbers, or production numbers. Dynamic Text is triggered by a bit Tag in the PLC. You choose whether the Text is triggered by the bit when it is in the ON state or the OFF state. The Dynamic Text object will then display a text string that is programmed in the PLC.

Text Entry



The Text Entry object, when pressed on the panel, brings up a character entry (alphanumeric) keypad. This allows the operator to enter text up to 40 characters to send to a tag assigned to an address in a PLC.

It has many uses, some of which may be: to send part numbers or production numbers to a PLC, or to send a message to a PLC that will, in turn, route it to one or more plant floor message display(s), such as EZMarquee.



EZSeries Touchpanel Objects

Adjust Contrast

Use the Adjust Contrast object to place a button on the EZSeries Touchpanel screen that gives you access to the panel's adjust contrast feature. Use the UP and DOWN arrows that appear on the bottom to adjust the screen contrast.



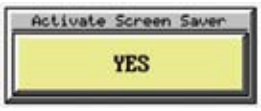
Increment/Decrement Hour

Place an object on the screen that allows you to adjust the hour (up or down) of the internal Real-time clock.



Activate Screen Saver

Place a button on the screen that enables you to activate the panel screen saver, to lengthen the longevity of the panel.



Select Language

This object allows the operator to change the language by pressing the button on the panel. Text that has been programmed for that language will convert to the language that the operator selects.



EZSeries Editor allows you to create Dynamic Bitmaps, Multi-state Bitmaps, Button Bitmaps, and Static Bitmap Objects in a breeze.

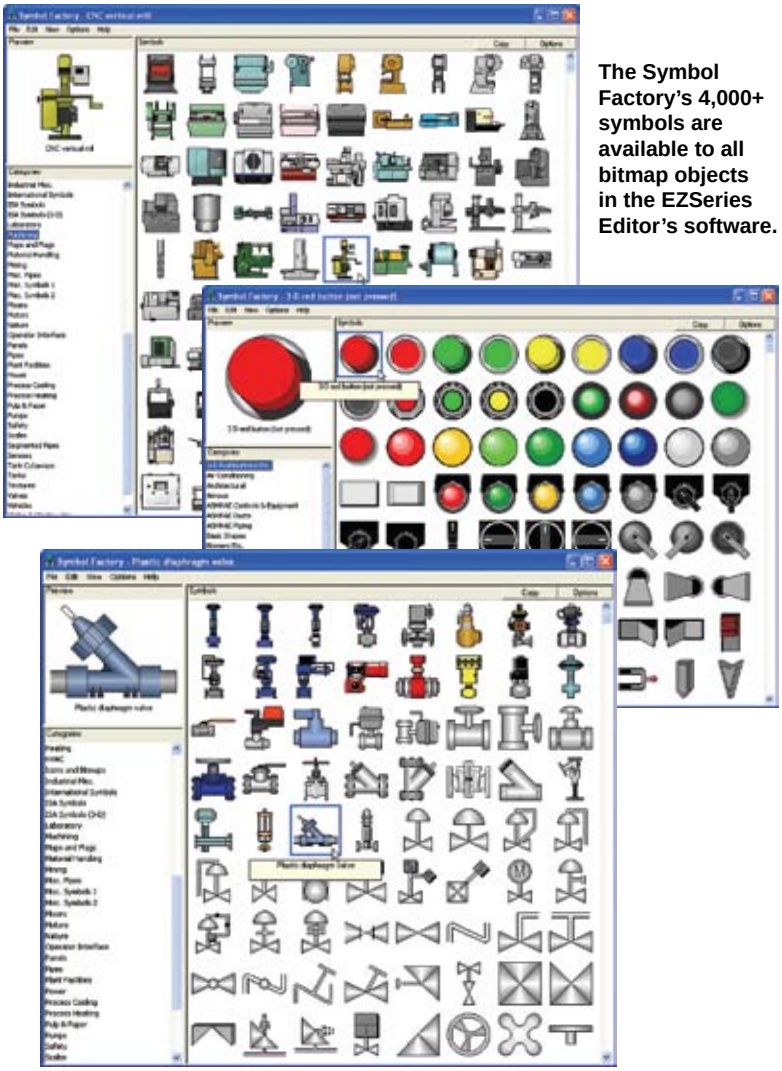
There is a built in library of 4,000 objects available for you to copy and paste directly to a project screen and use them in any arrangement or position them just the way you like.



Static Bitmap

A static bitmap lets you simply display a bitmap which can be resized within the editor and stays static on a screen, e.g. a company logo.

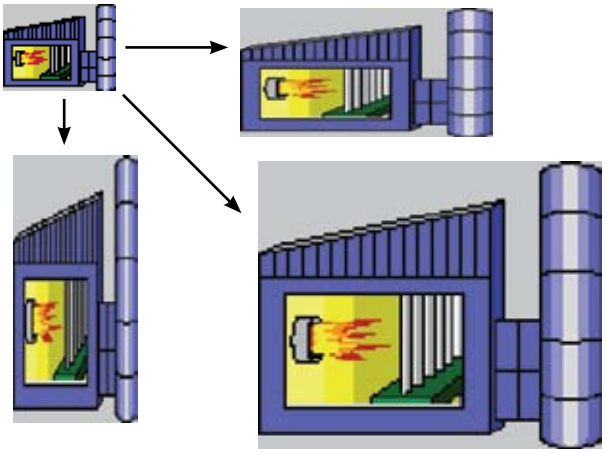
All bitmaps can be imported, copied from the clipboard, or pulled in from the symbol factory (as shown to the right) and the EZSeries Touchpanel supports the following formats: .bmp, .wmf, .emf, .gif, .jpeg, .jpg, and .ico.



The Symbol Factory's 4,000+ symbols are available to all bitmap objects in the EZSeries Editor's software.

Sizing Bitmap Objects is EZ!

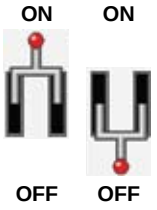
The EZSeries Editor has a patent pending feature that saves the programmer from having to size a bitmap in another photo editing software, and then bring it onto the screen. You can size an object whichever way you want it within the EZSeries Touchpanel Software itself. It saves you the headache of going back and forth between two software programs.



EZSeries Touchpanel Objects

Bitmap Button

The Bitmap Button object allows the use of bitmaps for the ON/OFF states, instead of text or colors. For example, you could place a throw switch and static text labeling on/off states. When the operator presses the switch, the bitmap is replaced with the OFF state bitmap, showing the switch down. This is a simple toggle between ON/OFF states. You can also have buttons stay ON or turn OFF only when the operator is pressing the button, as shown farther right. There is even one more option in which a button, once pressed, can only be turned ON or OFF by a non-HMI source, like a PLC.




OFF
(not pressed)

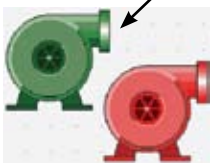

ON
(pressed)

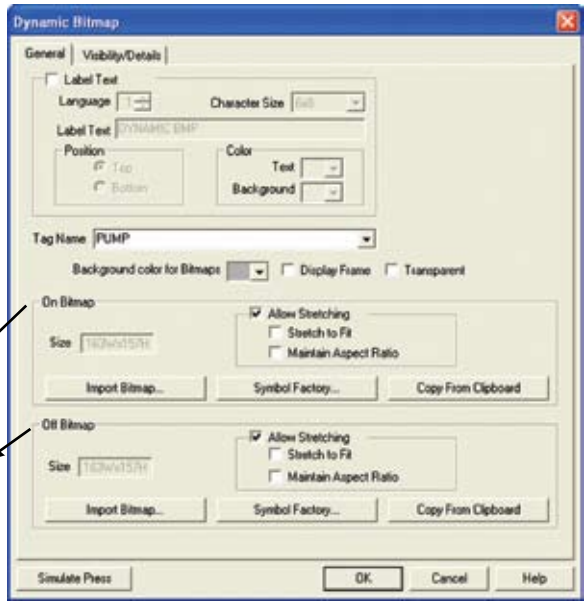
Dynamic Bitmap

A Dynamic Bitmap object, while not an interactive button, can show a dynamic visual representation of a process. Simply select a bitmap to represent the process running and another to represent the process not running, as the ON/OFF states of the bitmap.

For example, if your process uses a pump, and you want a visual representation of when the pump is on or off, then select the dynamic bitmap object. Click the symbol factory button from the On Bitmap section of the dialog box to access the symbol factory. After selecting the pumps category from the list on the bottom left and then the desired pump, click Options. This gives you the ability to change the object's shading, color, orientation, etc.
When finished and out of the Symbol Options box, click Copy, which copies the bitmap to the clipboard. Then click Copy From Clipboard. This places the symbol into the object's On Bitmap state. Repeat these steps for the Off Bitmap, and you are done!







Multi-state Bitmap

Similar to the Multi-state Indicator, this object displays predefined bitmaps instead of messages. Choose up to 16 different bitmaps to represent various conditions of a process. The bitmap shown is based on the value of a bit in a word or a word address. The example below shows how an operator would know the condition of the machine based on the colored bitmap which is displayed.

Off or Idle

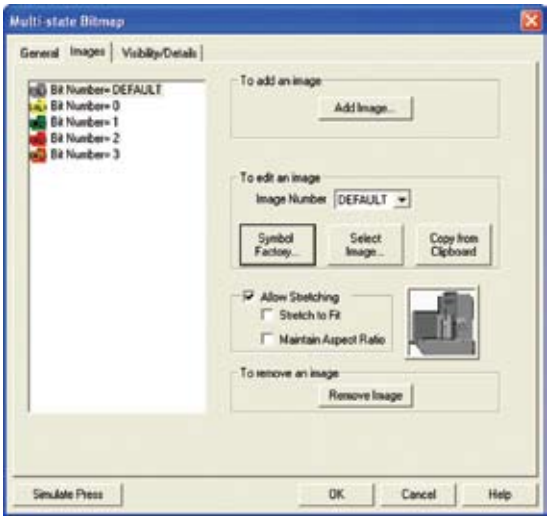
Warming Up

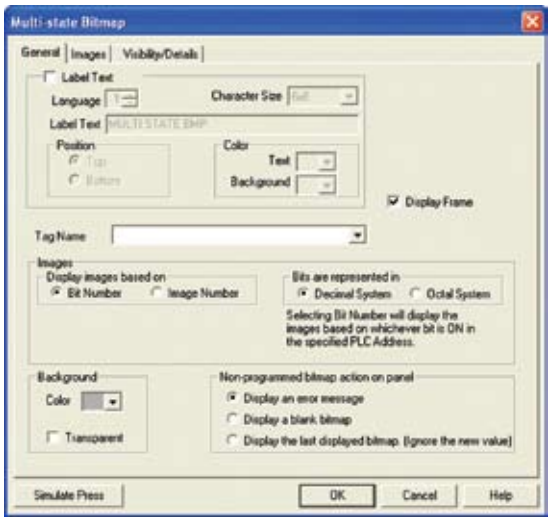
On or Running

Caution or Malfunction

Down for Repair or Needs Maint.







Update Project Screens Over Internet or Email

NO Programming Software Required OEM/SI Utility

EZPackager: Projects/Screen update in the field with Email or Download from Web

EZPackager is a unique utility which allows OEMs and System Integrators to Email EZSeries Touchpanel project changes to the end user over Internet. The end user does not need programming software for upgrading their EZSeries Touchpanel.

Current Methodology

OEM/SIs are typically forced to snail-mail Touchpanel Upgrades/Updates using Compact Flash card (assuming end user does not have a copy of HMI programming software). Sending compact flash cards through regular mail is time consuming process and can take several days before the end user receives update. For International customers this could mean delay of weeks if not more!



NEW! Methodology

OEM/SI Utility (EZPackager) creates updates in the form of Zip files from the programming software. This update (zip file) can be e-mailed to the end user within minutes. The end user simply extracts the zip file and runs the updating utility (EZPanelUpdater. exe) to complete the update. HMI programming software is not required by the end user for this update.



Innovate'n'Save™

Judge for yourself which Panel is Best for your PLC?

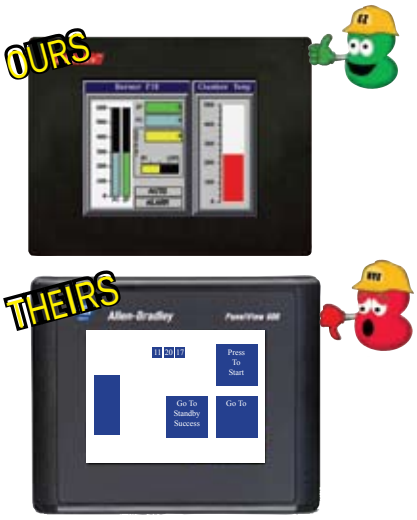
Head to Head Comparison

Feature/Price	*EZAutomation EZSeries Touchpanel EZ-S6C-F*	*Allen-Bradley PanelView 2711-T6C16L1*
Display type	STN	STN
Number of colors	128	16
Number of gray shades	16	4
Standard Memory	512K	240K
Online Programming	Yes	No
Trend graphs	Yes	No
Analog meters	Yes	No
Recipe download object	Yes	Yes
Thumbwheel (numeric entry)	Yes	No
Panel Price	$699	$1,560
Programming software Price	$99	$295
Programming cable Price	$20	$95
Total Price of Panel, Software and Cable	**$818**	**$1,950**

It's Clear which Looks Better!

We wanted to show some basic objects for each of these units to give an indication that the old phrase "You get what you pay for" doesn't always apply! All EZSeries Touchpanel objects have a built-in 3-D appearance, complete with tic marks, labels, and borders. In the following comparison, the screens were created with a simple rule; to create objects by using only a standard single object. (i.e. Can't use other aids to enhance this object.)

Which panel looks better to you?



Let's Compare EZSeries Touchpanel to Panelview Plus with DH+



Feature/Price	*EZAutomation EZSeries Touchpanel EZ-T10C-FH*	*Allen-Bradley PanelView Plus 2711P-T10C6D1*
Screen type	10" TFT	10" TFT
Resolution	VGA	VGA
Number of Colors	256	18 bit
Touch cells	192	192
DH+/Remote I/O support	Yes	Yes
Online Programming	Yes	No
Power Consumption	16 watts	27 watts
Software Learning Curve	15 minutes	3 day course
Panel Price	$2,199	$3,630
Programming software Price	$99	$613
Programming cable Price	$20	$100
Total Price of Panel, Software and Cable	**$2,318**	**$4,343**

You don't have to spend days negotiating to even come close to **our List Price for a single Unit!**

As you can see from the Head to Head comparison, our prices are almost half of the competition and our features are better! Our competition like AB and GE would want you to believe that they can come close to our price if only you committed to huge volumes and went through hours and days of negotiations to accomplish that. We make it EZ, one simple Low price whether you buy one or you buy hundreds!

EZSeries Dedicated OS Feature Comparisons to other HMIs

Features	EZAutomation EZSeries Touchpanel	Automation Direct C-More	Allen Bradley Panel View Plus	Xycom Proface
Ease of Programming	EZiest and fastest Programming	2 times longer in a benchmark test	5 times longer in a benchmark test	No test conducted
On-Line Programming	YES, No Downtime	NO	NO	NO
On Screen Recipe Edit	YES, Fine tuning on Touchpanel	NO	NO	NO
Remote Monitoring & Control	YES, $99 add-on card with $99 PC software	NO	NO	NO
Seperate Procesors for PLC/ Graphics and Ethernet/ Internet	YES	NO	NO	NO
SCADA Features across all Models	YES, starting with 4" Monochrome at $199	NO	NO	NO
FDA Compliant	YES	NO	YES	NO
Display Brightness	10% - 20% more brightness	See induvidual models	See induvidual models	See induvidual models
Bulb Life	10% - 20% more bulb life on TFT	See induvidual models	See induvidual models	See induvidual models
Backlight Field Replacement	Can be done but cumbersome	Little easier still cumbersome	YES	Can be done but cumbersome
Outdoor Readability	Low power consumption, Transflective, 6" and 10" Models starting $1	Not available	Not available except for 12" model	Not available
Number of colors	256	65,536	25-65,536 depending on model	25-65,536 depending on model
Touch Screen Resolution	192 touchcell matrix (strictly user preference)	Analog resistive (strictly user preference)	Matrix or Analog depending on model (strictly user preference)	Matrix or Analog depending on model (strictly user preference)
Built-In Anti Glare Screen	YES, no effect on visibility	NO, optional Anti Glare cover reduces visibility	Not Available	Not Available
Hard Surface Touchscreens	0.090 inch Thick	Paper thin Touch Screen	Hard Surface	Paper thin Touch Screen
Brightness at Elevated Temperatures	Best in class, TFT models (50-60 °C)	50 °C	55 °C	50 °C
PLC/Network Drives	90% of installed PLCs and Networks including DH+/RIO, Modbus Plus, CC Link, Profibus, DeviceNet, SRTP, et	Mostly Limited to Basic Drivers for Low End PLCs, No Drivers for Siemens and High End Allen Bradley	Mostly Limited to Allen Bradley PLCs	Good Driver set except for some high end drivers such as RIO for some models
Universal Ethernet Port	EtherNet/IP for ControlLogix and MicroLogix , Modbus TCP/IP, SRTP on same Model	Limited ContolLogix, No MicroLogix, Modbus TCP/IP, No SRTP	No SRTP	Good set of Drivers
Multiple Processors for communication over Ethernet	2 separate processors in all Models provide the fastest response	Single Multi-tasking processor limits execution speed	Single Multi-tasking processor limits execution speed	Single Multi-tasking processor limits execution speed
Data Acquisition	EZ Data Acquisition for any Tag thru RS232 or Ethernet Port, $99 EZ Daq Software for trending in Excel	Limited Data collection in NotePad need transfer to a PC from the flash card or the USB Drive, 3 rd party software to go to Excel	Available but costing literally thousands of Dollars	Need a transfer mechanism to PC and #rd party software for go to Excel
OEM / SI Utility	YES, OEM/SI can upgrade user program without having Programming software	NO	NO	NO
Design Protection for OEM/SI	YES, Entire Project password protected	NO	NO	NO
Alarm Management and History	Free placement of Alarm banner and advanced Alarm History management	Alarm banner fixed	YES, on some Models	YES, on some Models
Recipe Management	Available across all Models	Available across all Models	Limited	Limited
Animation Objects	YES	YES	YES, on some models	YES, on some models
Project Simulation	YES	YES	YES, on some models	YES, on some models
Foreign Language / Unicode Support	Yes, All Fonts, Languages and scripts supported by Unicode	Limited to 10 Languages, does not Support Unicode	Support Unicode and Multiple Languages	Supports Unicode
Memory Utilization	Extremely Condensed Vector Graphics Less than 1KB	Bitmap Graphics need huge memory	Bitmap Graphics need huge memory	Bitmap Graphics need huge memory, 4MB Limits Graphics

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EZSeries Dedicated OS Feature Comparisons to other HMIs

Features	EZAutomation EZSeries Touchpanel	Automation Direct C-More	Allen Bradley Panel View Plus	Xycom Proface
Same Hardware and Software for all Models	YES, Same Feature set across entire Family	YES, But some Models do not have HIgh-end Features	NO	NO
3-D Objects	Some of the best looking Objects in an HMI	Some of the best looking Objects in an HMI	Limited	Limited
Touch Screen Response Time	Best in class approx. ½ sec	50% more	Slow	Slow
Trend Object	Copyrighted Trend Object with VCR type control to review past history		NO	NO
Bitmap Buttons	YES across all Models	YES across all Models	YES, but available only on bigger Models	YES, but available only on bigger Models
Photo Editor within Programming Software	YES, Patent Pending	NO	NO	NO
Monitor Tag Values in PC when connected to PLC	YES, Real-time monitoring	NO	NO	NO
Pick and Apply Styles	YES, Saves lot of time	NO	NO	NO
Display Tag Names/ addresses on Objects	YES, Great trouble shooting aid	NO	NO	NO
Overlapping Objects	YES	YES	YES	YES
Thumbwheel for Numeric Entry	YES, Copyrighted Thumbwheel object		NO	NO
Symbol Library	4000 Built-In symbols	4000 Built-In symbols	NO	NO
Multi-state Bitmap Object	YES	YES	YES, but available only on bigger Models	YES, but available only on bigger Models
Multi-state Indicator Objects	YES	YES	YES, but available only on bigger Models	YES, but available only on bigger Models
Instant Mouse Over View of Colors	YES, Great time saving tool saves trial and error	NO	NO	NO
Visibility Control for all Objects	YES, Saves screen space		NO	NO
Modem Support	YES, Convenient for simple Dial-up connection	NO	NO	NO

EZSeries Dedicated Touchpanel Price Comparisons

Price Comparisons	EZAutomation EZSeries Touchpanel	Automation Direct C-More	Xycom Proface	Allen Bradley Panel View Plus
6" Monochrome STN	EZ-S6W-RS $369	EA7-S6M-R $395	GP2301-LG41-24V (Low-end model) $895	2711P-T6M8D $1440
6" STN Color	EZ-S6C-RS $699	EA7-S6C $675	GP2301-SC41-24V (Low-end model) $1095	NA
6" TFT Color	EZ-T6C $769	EA7-T6C $775	GP2300-TC41-24V (Low-end model) $1495	2711P-T6C8D $2005
8" TFT Color	EZ-T8C $949	EA7-T8C $975	GP2401-TC41-24V (Low-end model) $2025	2711P-T7C6D2 (7" TFT Color) $2980
10" TFT Color	EZ-T10C $1499	EA7-T10C $1575	GP2501-TC11 (Low-end model) $2595	2711P-T10C6D1 $3965
15" TFT Color	EZ-T15C $2199	EA7-T15C $2275		2711P-T15C6D1 $6120

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EZSeries Windows CE OS Feature Comparisons to other HMIs

Features	EZAutomation EZSeries CE Touchpanel	Automation Direct C-More
Open Platform HMI	Windows CE Open for use by customer	Even though CE Platform but closed to the user
Edit HMI Application on HMI itself, No Laptops	Yes, With Unique Built - In Quik Edit change colors, sizes, tag/ address, Add or Delete Screens..	NO
View Video on HMI	YES, Mpeg Video	NO
View Word Files	YES	NO
View Excel Files	YES	NO
View Power Point Files	YES	NO
View PDF Files	YES	NO
View .Mpeg Videos	YES	NO
Web Browsing	YES	NO
Custom VB or C++ Application	YES	NO
.Net Compact Framework Support	YES	NO
Remote Monitoring & Control	YES, with $99 PC Software	NO
Send Emails Automatically	Under Development	YES
Ease of Programming	Eziest and Fastest programming	2 Times Longer in a Benchmark test
On-Line Programming	YES, No Downtime what so ever to make a change !!	NO
On Screen Recipe Edit	YES, allows fine tuning of Recipe on Touch Panel, without PC	NO
FDA Compliant	YES	NO
Display brightness	See Individual Model, 10% - 20% more Brightness than Best in class for most Models	See Individual Model
Bulb life	10% - 20% more Life than the Best in Class for TFT Models	See Individual Model
Backlight Field Replaceable	Can be done but cumbersome	Little easier still cumbersome
Outdoor Readability	Low power consumption, Transflective, 6" and 10" Models starting $1499	Not Available
Touchscreen Resolution	Analog resistive	Analog resistive
Built-in Anti Glare Screen	Yes, No effect on visibility	No, Optional Anti Glare Cover reduces Visibility
Hard Surface Touch Screens	0.090 inch Thick	Paper thin Touch Screen
Brightness at Elevated Temperatures	Best in Class, TFT Models rated from 55 - 60 Deg C	50 Deg C
PLC / Network Drivers	90% of Installed PLCs and Networks including DH + / RIO, Modbus Plus, CC Link, Profibus, DeviceNet, SRTP, etc	Mostly Limited to Basic Drivers for Low End PLCs, No Drivers for Siemens and High End Allen Bradley
Ethernet Protocols	7 : EtherNet/IP for ControlLogix, MicroLogix and SLC 500, Modbus TCP/IP, SRTP, DirectLogic Ethernet, EZPLC on same Model	Limited ContolLogix, DirectLogic, No MicroLogix, Modbus TCP/IP, No SRTP
Data Acquisition	EZ Data Acquisition for any Tag thru RS232 or Ethernet Port, Data stored in Compact Flash or logged to Main Frame Computers through Ethernet, Historical Data can be viewd right on the panel, $99 EZ Daq Software for trending in Excel	Limited Data collection in NotePad need transfer to a PC from the flash card or the USB Drive, 3 rd party software to go to Excel, Data cannot be transferred through Ethernet, Historical Data can not be viewed on the HMI
OEM / SI Utility	YES, OEM/SI can upgrade user program without having Programming software	NO
Design Protection for OEM/SI	YES, Entire Project password protected	NO
Alarm Management and History	Free placement of Alarm banner and advanced Alarm History management	Alarm banner fixed
Recipe Management	Available across all Models	Available across all Models
Animation Objects	YES	YES
Project Simulation	YES	YES
Foreign Languages / Unicode Support	Yes, All Fonts, Langauges and sripts supported by Unicode	Limited to 10 Langauges, doesnot Support Unicode
Flash Memory	32 MB	32 MB
RAM Memory	64 MB	32 MB

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EZSeries Windows CE OS Feature Comparisons to other HMIs

Features	EZAutomation EZSeries CE Touchpanel	Automation Direct C-More
Memory Utilization	Extremely Condensed Vector Graphics Less than 1KB for this guage ! 	Bitmap Graphics need huge memory
Same Hardware and Software for all Models	YES, Same Feature set across entire Family	YES, But some Models do not have HIgh-end Features
3-D Objects	Some of the best looking Objects in an HMI	Some of the best looking Objects in an HMI
Trend Object	Copyrighted Trend Object with VCR type control to review past history	
Bitmap Buttons	YES across all Models	YES across all Models
Photo Editor within Programming Software	YES, Patent Pending	NO
Monitor Tag Values in PC when connected to PLC	YES, Real-time monitoring	NO
Pick and Apply Styles	YES, Saves lot of time	NO
Display Tag Names/ adresses on Objects	YES, Great trouble shooting aid	NO
Overlapping Objects	YES	YES
Thumbwheel for Numeric Entry	YES	YES
Symbol Library	4000 Built-In symbols	4000 Built-In symbols
Multi-state Bitmap Object	YES	YES
Multi-state Indicator Objects	YES	YES
Instant Mouse Over View of Colors	YES, Great time saving tool saves trial and error	NO
Visibility Control for all Objects	YES, Saves screen space	
Modem Support	YES, Convenient for simple Dial-up connection	NO
Transition from Dedicated Operating system to Windows operating system	EZSeries Touchpanel and EZCE Touchpanel have a seamless transition. Programming software is the same. HMI Applications are transparent and thus can be run on either panel	NO

EZSeries Windows CE Touchpanel Price Comparisons

Price Comparisons	EZAutomation EZSeries CE Touchpanel	Automation Direct C-More
6" White on Blue	EZC-S6W-E $399	Not Available
6" Monochrome STN	EZC-S6M-E $449	EA7-S6M $475
6" STN Color	EZC-S6C-E $649	EA7-S6C $675
6" TFT Color	EZC-T6C-E $769	EA7-T6C $775
8" STN Color	EZC-S8C-E $849	Not Available
8" TFT Color	EZC-T8C-E $949	EA7-T8C $975
10" TFT Color	EZC-T10C-E $1499	EA7-T10C $1575
15" TFT Color	EZC-T15C-E $2199	EA7-T15C $2275

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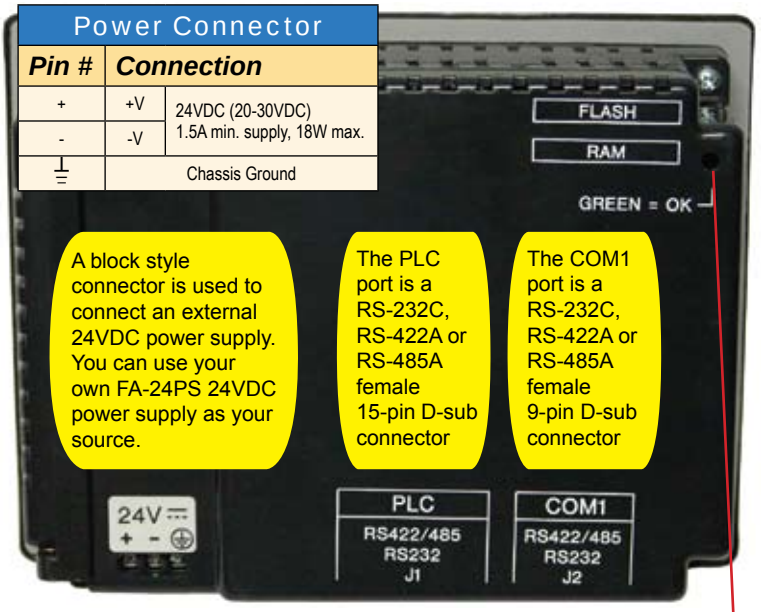
EZSeries Touchpanel Overview

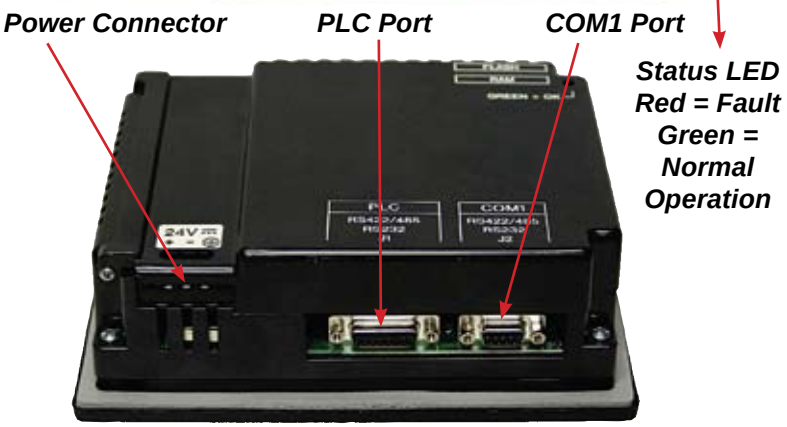
PLC/Network Drivers

PLC Compatibility Table			
PLC/Network	***Model***		***Protocols***
EZAutomation	EZPLC		EZ Protocol, Serial or Ethernet
Allen-Bradley	MicroLogix 1000/1100/1200/1500 SLC 500, 5/01, /02, /03		DH485/AIC/AIC+, Serial or Ethernet I/P
	MicroLogix 1000, 1100, 1200 and 1500 SLC 5/03, /04, /05, PLC-5 (w/DF1)		DF 1 Half Duplex; DF1 Full Duplex, , Serial or Ethernet I/P
	SLC 5/04, PLC 5		DH+ (Option Card) or Ethernet I/P
	PLC5		DF 1, Serial or Ethernet I/P
	PLC 2, 3 and 5		Remote I/O (w/DH+ Option Card) or Ethernet I/P
Aromat	Aromat		Mewtocol COM
Baldor	Motion Controller		Baldor
Control Techniques	Unidrive 2-wire, 4-wire		Binary
Control Technology Corporation (CTC)	CTC 2600, 2700 and 5100		CTC Binary
DeviceNet	DeviceNet I/O		Generic DeviceNet I/O (Option Card)
General Electric	90/30 and 90/70 Versamax		SNPX, SNP, Serial or Ethernet SRTP
Idec	Idec		Computer Link
Mitsubishi	FX Series (all)		Direct
	CC Link		CC Link Protocol
Modicon	984 CPU, Quantum 113 CPU, AEG Modicon Micro Series 110 CPU: 311-xx, 411-xx, 512-xx, 612-xx		Modbus RTU or Modbus TCP/IP
	984 Series, Quantum Series		Modbus Plus (Option Card), Serial or Modbus TCP/IP
Omron	C200, C500, CQM1, CPM1, CPM2		Host Link
Parker-Hannifan	Motion Controller		Parker-Hannifan
Profibus	Profibus-DP		Generic Profibus-DP (Option Card)
DirectLOGIC	DL05, DL06		K-Sequence, DirectNet, MODBUS (Koyo Addressing)
	DL105		K-Sequence
	DL205	D2-230	K-Sequence
		D2-240	K-Sequence, DirectNet
		D2-250	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		D2-240/250ECM	DirectNet
	DL305	D3-330/330P	DirectNet
		D3-340	DirectNet
		D3-350	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		D3-350 ECM	DirectNet
	DL405	D4-430	K-Sequence, DirectNet
		D4-440	K-Sequence, DirectNet
		D4-450	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		All with ECM	DirectNet
Siemens	Siemens S7 MPI Adapter		3964R
	Siemens S7-200		S7-200
Square D Symax	300 Series CPU, 400 Series CPU		Symax
Texas Instruments	TI5X5 Series - TI505, TI 545-1102, TI545-1104		TBP (Transparent Byte Protocol) or NITP (Non-Intelligent Terminal Protocol)
Uni-Telway	Telemecanique TSX 37 Micro		UNI-TE (Version 1.1)
Yaskawa	Yaskawa Drives		Memobus
Other	H2 - WinPLC (Think & Do V6.3, Think & Do Studio, check for version compatibility)		MODBUS RTU (serial port)

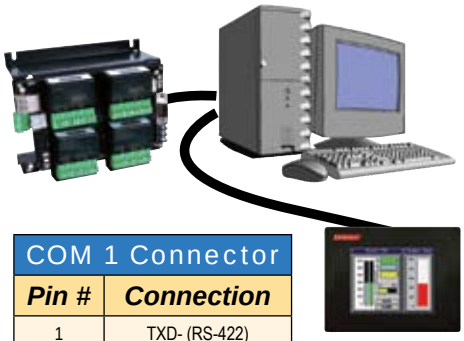
EZSeries Touchpanel Wiring

Power Connector		
Pin #	***Connection***	
+	+V	24VDC (20-30VDC) 1.5A min. supply, 18W max.
-	-V	
⏚	Chassis Ground	





Setup for online programming



PLC Connector	
Pin #	***Connection***
1	Chassis GND
2	PLC TXD (RS-232)
3	PLC RXD (RS-232)
4	+5V
5	Logic GND
6	LE
7	PLC CTS (RS-232)
8	PLC RTS (RS-232)
9	RXD+ (RS-422)
10	RXD- (RS-422)
11	TXD+ (RS-422)
12	TXD- (RS-422)
13	Terminating resistor
14	NC
15	NC

COM 1 Connector	
Pin #	***Connection***
1	TXD- (RS-422)
2	TXD (RS-422)
3	RXD (RS-232)
4	RXD- (RS-232
5	Logic GND
6	TXD+ (RS-422)
7	CTS (RS-232)
8	RTS (RS-232)
9	RXD+ (RS-422)

EZSeries RAM and Flash Card Options

EZSeries Firmware is stored in the internal Flash memory of the panel which can be field upgraded through it's programming port.

The user program resides in the battery backed RAM of the panel. A backup battery provides power to the unit when external 24VDC power input is not present. If the backup battery is removed while the unit is without external 24VDC power, the user program residing in the RAM of the unit will be lost.

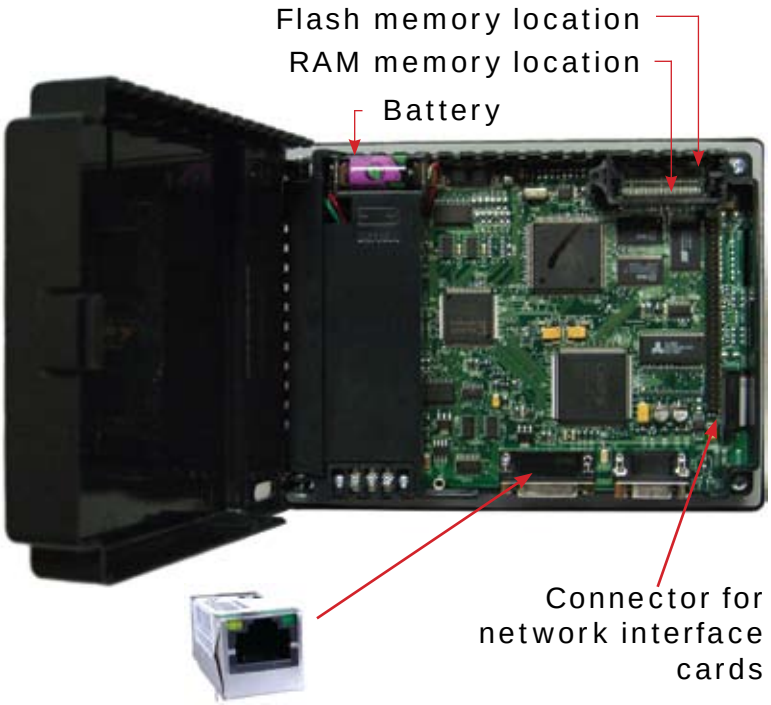
Optional FLASH Card

Flash cards for EZSeries are used for backup of user-programs. There are three sizes of flash cards available (512K, 1MB, and 2MB). When an EZSeries Touchpanel powers up it always checks for a flash card. If present, it loads the user-program from the flash card into the RAM of the panel.

1. Use flash cards for backing up user-programs. If the user program gets corrupted you will always have a backup copy for immediate transfer to a panel without the need of a PC.
2. Take advantage of programming multiple units without a PC just by powering them up with the flash card installed. Once the unit powers up, the flash card can be removed and the user-program will reside in the RAM of the panel.
3. OEMs can distribute upgrades/updates of applications on flash cards which can be utilized by Users to transfer the updated/upgraded user-programs to the RAM of a panel without the need of a PC.

Optional RAM Card

There are two sizes of plug-in RAM cards available, 512K and 1MB RAM, for expanding the available RAM on a panel. For most applications, the available RAM is more than sufficient for typical user-programs. For applications utilizing extensive bitmaps and/or screens can take advantage of plug-in RAM cards for expanding program storage space.



RJ45 Connector in place of 15-pin D-Sub for Universal Ethernet models

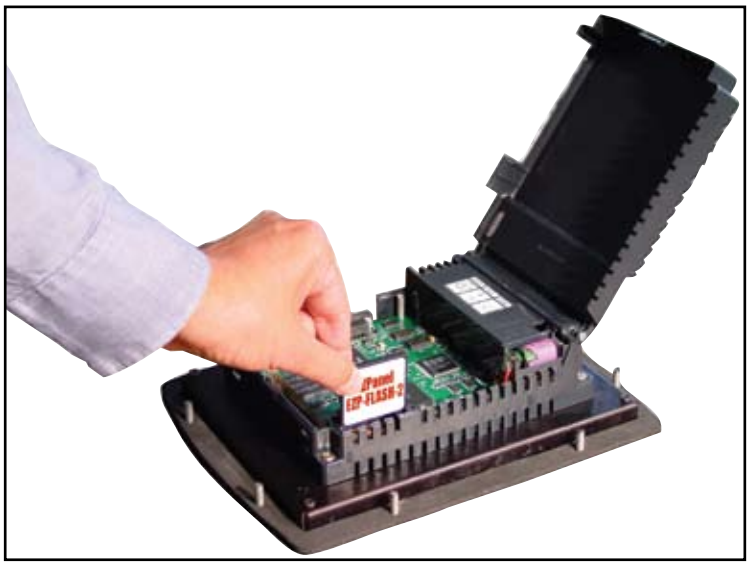
Battery Replacement

3.6 volt high energy Lithium battery is used to provide back-up power for program storage in the sytem RAM. EZSeries Touchpanel has a low battery indicator on the screen. It is recommended that the battery is replaced every five years.

RAM memory card installed



Flash Card getting installed



Connecting to a PLC/Programming Computer is EZ

Cable Connections

Due to the new drivers that have been added to our EZSeries panels, we have added many new cables for the various communication methods.

Delivery Status: STK

Cable Part Number	Cable Description	Price
EZ-PGMCBL	10 ft. Programming Cable	$20
EZ-CBL	10 ft. EZPLC cable RS232	$20
EZ-2CBL	10 ft. RS 232C, 15 pin D-shell male to RJ12	$20
EZ-2CBL-1	10 ft. RS 232C, 15 pin D-shell male to15 pin male	$20
EZ-3CBL	10 ft. RS 232C, 15 pin D-shell male to RJ11	$20
EZ-4CBL-1	10 ft. RS 232C, 15 pin to 15 pin D-shell male	$20
EZ-4CBL-2	10 ft. RS 232C, 15 pin to 25 pin D-shell male	$20
EZ-MLOGIX-CBL	10 ft. Allen-Bradley MicroLogix 1000, 1200, 1500	$25
EZ-SLC-232-CBL	10 ft. Allen-Bradley SLC 5-03-04-05 with DF-1 port	$20
EZPLC5-232-CBL	10 ft. Allen-Bradley PLC-5 CPU with DF1 port	$20
EZ-DH485-CBL	10 ft. Allen-Bradley SLC 500 with DH485 port	$22
EZ-90-30-CBL	10 ft. GE Fanuc Series 90/30 and 90/70 using SNPX	$20
EZ-MITSU-CBL	10 ft. Mitsubishi FX Series 15-25 pin D-shell male	$20
EZ-MITSU-CBL-1	10 ft. Mitsubishi FX Series 15-8 DIN	$20
EZ-S7MPI-CBL	10 ft. Siemens Simatic 7 15-9 D-shell	$20
EZ-OMRON-CBL	10 ft. Omron C200-C500 with Hostlink protocol	$20
EZ-ARCOL-CBL	10 ft. Aromat Mewtool COM	$20
EZ-CTRLUNI-CBL	10 ft. Control Techniques (Emerson) RS422 4 wire	$20
EZ-CTCBI-CBL	10 ft. CTC Binary, RS232	$20
EZ-IDECM-CBL	10 ft. IDEC Micro, 8 pin mini DIN	$20
EZ-MODUNI-CBL	10 ft. Modicon Uni-Telway	$20
EZ-MODRTU-CBL	10 ft. Modbus RTU	$20
EZ-MODTCP-CBL	10 ft. Modbus TCP/IP	$20
EZ-S7200-CBL	10 ft. Siemens S7 200	$20
EZ-SYMAX-CBL	10 ft. Square D Symax	$20
EZ-TX505-CBL	10 ft. Texas Instrument 505	$20
EZ-CTRLUNI-CBL-1	10 ft. Control Technologies RS485, 2 wire	$20
EZ-IDECS-CBL	10 ft. IDEC Smart	$20
EZ-TX545-CBL	10 ft. Texas Instrument 545-1102, RS422	$20
EZ-TX545-CBL1	10 ft. Texas Instrument 545-1104, RS422	$20
EZ-MODRJ-CBL	10 ft. RS232 15 pin D-shell male to RJ45	$20
EZ-CBL-20FT	20 ft. RS232C Shielded Cable	$45
EZ-2CBL-20	To connect any EZText, EZTouch or EZCE Touchpanel to DL05, DL06, DL105, DL205, D3-350 or D4-450 CPU	$45
EZ-2CBL-25	o connect any EZText, EZTouch or EZCE Touchpanel to DL05, DL06, DL105, DL205, D3-350 or D4-450 CPU	$60
EZ-CTCBI-CBL-25	To connect any EZTouch or EZCE Touchpanel to Control Technology Corp (CTC) PLC	$75

EZSeries Accessories

Delivery Status: STK

Part Number	Description	Price
EZ-PANELEDIT	EZSeries Programming Software	$99
EZ-WEB-DATA	EZ RMC card for Remote Monitoring & Control	$99
EZ-SOFT-REMOTE	EZ RMC Software	$99
EZ-PANEL-M	Hardware User Manual	$15
EZ-RAM-1	512K RAM Card	$50
EZ-RAM-2	1MB RAM Card	$97
EZ-FLASH-1	512K Flash Card	$46
EZ-FLASH-2	1MB Flash Card	$56
EZ-FLASH-3	2MB Flash Card	$80
EZ-ETHERNET	DirectLogic Ethernet Option Interface Card	$190
EZ-ETHERPLUS	Modbus TCP/IP or DirectLogic Ethernet Option Card	$240
EZ-BAT	Replacement 1/2 AA, 3.6 volt Lithium Battery	$20
EZ-BRK-1	EZSeries Touchpanel optional DIN Mounting Clips (pk. of 2)	$15
EZ-COMCON3	15-pin male D-sub connectors with terminal blocks, for connecting RS422 network cable from EZSeries Touchpanel or EZText panels	$19
EZ-PANEL6-GSK	(6") Standard Replacement Gasket for all 6" panels	$8
EZ-PANEL8-GSK	(8") Standard Replacement Gasket	$8
EZ-PANEL10-GSK	(10") Standard Replacement Gasket	$8
EZ-PANEL-STUDS	Spare mounting studs (four with nuts)	$8
EZ-6SLIMF-GSK	(6") Slim bezel FDA replacement gasket	$8
EZ-8SLIMF-GSK	(8") Slim bezel FDA replacement gasket	$25
EZ-10SLIMF-GSK	(10") Slim bezel FDA replacement gasket	$30
EZ-15SLIMF-GSK	(15") Slim bezel FDA replacement gasket	$34
EZ-COV6	Pack of 3 protective shields for any 6" EZSeries Touchpanel panel	$20
EZ-COV8	Pack of 3 protective shields for any 8" EZSeries Touchpanel panel	$34
EZ-COV10	Pack of 3 protective shields for any 10" EZSeries Touchpanel panel	$38
EZ-COV15	Pack of 3 protective shields for any 15" EZSeries Touchpanel panel	$56

EZSeries Dedicated OS Selection Guide & Specifications

EZSeries 4-inch and 6-inch Model Specifications				
Part Number	*EZ-S4M-FS* (All Serial Drivers) $199 *EZ-S4M-FE* (Ethernet Model) $299	*EZ-T4C-FS* (All Serial Drivers) $299 *EZ-T4C-FE* (Ethernet Model) $399	*EZ-S6W-RS* (Non-expandable) $369 *EZ-S6W-RSU* $798 (Universal Ethernet, No Flash/RAM expansion)	
				
Specification	4" slim bezel grayscale	4" color slim bezel	6" white on blue	
Enclosure	NEMA 4, 4X (indoor)	NEMA 4, 4X (indoor)	NEMA 4, 4X (indoor)	
Display Type	3.8" STN (16 shades of gray)	3.5" TFT (128-color palette)	5.7" STN (4 shades of blue)	
Display View Area	3.14"x2.39" (79.8x60.6 mm)	2.87"x2.18" (72.9x55.4 mm)	4.72"x3.5" (119.4x88.9 mm)	
Screen Pixels	320x240		320x240	
Brightness/Life	140 nits/50,000 hours	400 nits/75,000 hours	140 nits/50,000 hours	
Touch Screen	48 resistive touch cells (8x6)		48 resistive touch cells (8x6)	
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)			
Service Power	24VDC (20-30VDC operating range), 1.2A switching supply recommended			
Power Backlight On	10 watts @ 24VDC	12 watts @ 24VDC	10 watts @ 24VDC	
Power Backlight OFF	3 watts @ 24VDC	5 watts @ 24VDC	3 watts @ 24VDC	
Agency Approval	UL, CUL, CE	UL, CUL, CE	UL, CUL, CE	
Operating Temp.	0° to 40° C (32 to 113° F)	0° to 55° C (32 to 131° F)	0° to 45° C (32 to 113° F)	
Storage Temp.	-20 to 60°C (-4 to 140°F)			
Humidity	10-95% RH, noncondensing			
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)			
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)			
Vibration	5 to 55Hz 2G for 2 hours in the X, Y and Z axes			
Shock	10G for under 12ms in the X, Y and Z axes			
User Memory	256KB System RAM memory only			
# of Screens	Up to 999 limited by memory			
Real Time Clock	Not in Panel (PLC clock is still accessible if available)		Built into panel (PLC clock is still accessible if available)	
Screen Saver	Yes, Backlight off			
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)			
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)			
	Optional Ethernet with Ethernet IP, EZ IP, Modbus TCP/IP, SRTP, Koyo ECOM and TCP/IP for Programming		For Universal Ethernet model 15 D-sub is replaced by Universal Ethernet port	
External Dimensions	6.145"x8.048"x2.433" (156.078x204.407x51.786mm)	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)	6.145"x8.048"x2.433" (156.078x204.407x51.786mm)	
Weight	1.4 lbs	1.4 lbs	1.7 lbs	

EZSeries Dedicated OS Selection Guide & Specifications

EZSeries 6-inch Model Specifications			
Part Number	*EZ-S6M-F* (All Serial Drivers) $479 *EZ-S6M-FH* (DH+, Remote I/O) $979 *EZ-S6M-R* (Non-expandable) $399	*EZ-S6M-FS* (Full Featured) $449 *EZ-S6M-FSC* (CC Link) $1049 *EZ-S6M-FSD* (DeviceNet) $1049 *EZ-S6M-FSE* (Ethernet IP) $1049 *EZ-S6M-FSH* (DH+, Remote I/O) $1049 *EZ-S6M-FSM* (Modbus Plus) $1049 *EZ-S6M-FSP* (Profibus) $1049 *EZ-S6M-FST* (Modbus TCP/IP) $849 *EZ-S6M-FSU* (Universal Ethernet) $848 *EZ-S6M-ES* (EZPLC) $399 *EZ-S6M-RS* (Non-expandable) $399 *EZ-S6M-RMC* (RMC card installed) $549	*EZ-S6C-F* (All Serial Drivers) $699 *EZ-S6C-FH* (DH+, Remote I/O) $1199 *EZ-S6C-K* (Koyo Only) $699
			
Specification	6" gray scale	6" slim bezel gray scale	6" color
Enclosure	NEMA 4, 4X (indoor)	NEMA 4, 4X (indoor)	NEMA 4, 4X (indoor)
Display Type	5.7" STN (16 shades of gray)		5.7" STN (128 colors)
Display View Area	4.72"x3.5" (119.4x88.9 mm)		
Screen Pixels	320x240		
Brightness/Life	140nits/50,000 hours	140nits/50,000 hours	200nits/40,000 hours
Touch Screen	48 resistive touch cells (8x6)	192 resistive touch cells (16x12) except -ES and -RS models have 48 (8x6)	48 resistive touch cells (8x6)
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)		
Service Power	24VDC (20-30VDC operating range), 1.2A switching supply recommended		
Power Backlight On	12 watts @ 24VDC		13 watts @ 24VDC
Power Backlight OFF	5 watts @ 24VDC		6 watts @ 24VDC
Agency Approval	UL, CUL, CE		
Operating Temp.	0 to 45°C (32 to 113°F)		
Storage Temp.	-20 to 60°C (-4 to 140°F)		
Humidity	10-95% RH, noncondensing		
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test		
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)		
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)		
Vibration	5 to 55Hz 2G for 2 hours in the X, Y and Z axes		
Shock	10G for under 12ms in the X, Y and Z axes		
User Memory	(all except -R) 512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer (-R) 256KB System RAM memory only	(all except -ES and -RS) 512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer (-ES and -RS) 256KB System RAM memory only	512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer
# of Screens	Up to 999 limited by memory		
Real Time Clock	Built into panel (PLC clock is still accessible if available)		
Screen Saver	Yes, Backlight off		
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)		
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)		
	No Ethernet	For Universal Ethernet model 15 D-sub is replaced by Universal Ethernet port	No Ethernet
External Dimensions	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)	6.145"x8.048"x2.433" (156.078x204.407x51.786mm)	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)
Weight	1.4 lbs	1.7 lbs	1.4 lbs

EZSeries Dedicated OS Selection Guide & Specifications

EZSeries 6 and 8-inch Model Specifications

Part Number	*EZ-S6C-FS* (Full Featured) $649 *EZ-S6C-FSC* (CC Link) $1299 *EZ-S6C-FSD* (DeviceNet) $1299 *EZ-S6C-FSE* (Ethernet IP) $1699 *EZ-S6C-FSH* (DH+, Remote I/O) $1299 *EZ-S6C-FSM* (Modbus Plus) $1299 *EZ-S6C-FSP* (Profibus) $1299 *EZ-S6C-FST* (Modbus TCP/IP) $1069 *EZ-S6C-FSU* (Universal Ethernet) $1098 *EZ-S6C-ES* (EZPLC) $649 *EZ-S6C-KS* (Koyo only) $649 *EZ-S6C-RMC* (RMC card installed) $799	*EZ-T6C-FS* (Full Featured) $769 *EZ-T6C-FSC* (CC Link) $1499 *EZ-T6C-FSD* (DeviceNet) $1499 *EZ-T6C-FSE* (Ethernet IP) $1499 *EZ-T6C-FSH* (DH+, Remote I/O) $1499 *EZ-T6C-FSM* (Modbus Plus) $1499 *EZ-T6C-FSP* (Profibus) $1499 *EZ-T6C-FST* (Modbus TCP/IP) $1269 *EZ-T6C-FSU* (Universal Ethernet) $1398 *EZ-T6C-ES* (EZPLC) $769 *EZ-T6C-RMC* (RMC card installed) $919	*EZ-S8C-F* (Full Featured) $849 *EZ-S8C-FC* (CC Link) $1449 *EZ-S8C-FD* (DeviceNet) $1449 *EZ-S8C-FE* (Ethernet IP) $1449 *EZ-S8C-FH* (DH+, Remote I/O) $1449 *EZ-S8C-FM* (Modbus Plus) $1449 *EZ-S8C-FP* (Profibus) $1449 *EZ-S8C-FT* (Modbus TCP/IP) $1399 *EZ-S8C-FU* (Universal Ethernet) $1248 *EZ-S8C-RMC* (RMC card installed) $999	*EZ-S8C-FS* (Full Featured) $849 *EZ-S8C-FSC* (CC Link) $1449 *EZ-S8C-FSD* (DeviceNet) $1449 *EZ-S8C-FSE* (Ethernet IP) $1499 *EZ-S8C-FSH* (DH+, Remote I/O) $1449 *EZ-S8C-FSM* (Modbus Plus) $1449 *EZ-S8C-FSP* (Profibus) $1499 *EZ-S8C-FST* (Modbus TCP/IP) $1399 *EZ-S8C-FSU* (Universal Ethernet) $1248 *EZ-S8C-RMC* (RMC card installed) $999
				
Specification	6" color slim bezel		8" color slim bezel	
Enclosure	NEMA 4, 4X (indoor)		NEMA 4, 4X (indoor)	NEMA 4, 4X, FDA compliant
Display Type	5.7" STN (128-color palette)	5.7" TFT (128-color palette)	8.2" STN (128-color palette)	
Display View Area	4.65"x3.5" (118.1 x 88.9mm)		6.65"x5.024" (168.9 x 127.61mm)	
Screen Pixels	320x240		640x480	
Brightness/Life	200nits/40,000 hours	400nits/75,000 hours	140 nits/25,000 hours	140 nits/25,000 hours
Touch Screen	192 resistive touch cells (16x12)			
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)			
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended			
Power Backlight On	13 Watts @ 24VDC	15 Watts @ 24VDC	16 Watts @ 24VDC	
Power Backlight Off	6 Watts @ 24VDC	8 Watts @ 24VDC	9 Watts @ 24VDC	
Agency Approval	UL, CUL, CE	UL, CUL, CE pending	UL, CUL, CE	
Operating Temp.	0 to 50°C (32 to 122°F)	0 to 55°C (32 to 131°F)	0 to 50°C (32 to 122°F)	
Storage Temp.	-25 to 60°C (-13 to 140°F)	-25 to 65°C (-13 to 149°F)	-25 to 60°C (-13 to 140°F)	
Humidity	10-95% RH, noncondensing			
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)			
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)			
Vibration	5 to 55Hz 2G for 2 hours in the X, Y and Z axes			
Shock	10G for under 12ms in the X, Y and Z axes			
User Memory	512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer			
# of Screens	Up to 999 limited by memory			
Real Time Clock	Built into panel (PLC clock is still accessible if available)			
Screen Saver	Yes, Backlight off			
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)			
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)			
	For Universal Ethernet model 15 D-sub is replaced by Universal Ethernet port			
External Dimensions	6.145"x8.048"x2.433" (156.078x204.407x51.786mm)		8.748"x10.894"x2.289" (222.199x276.708x58.136mm)	
Weight	1.7 lbs		2.9 lbs	

EZSeries Dedicated OS Selection Guide & Specifications

EZSeries 8, 10 and 15-inch Model Specifications				
Part Number	EZ-T8C-F (Full Featured) $949 EZ-T8C-FC (CC Link) $1799 EZ-T8C-FD (DeviceNet) $1799 EZ-T8C-FE (Ethernet IP) $1799 EZ-T8C-FH (DH+, Remote I/O) $1799 EZ-T8C-FM (Modbus Plus) $1799 EZ-T8C-FP (Profibus) $1799 EZ-T8C-FT (Modbus TCP/IP) $1799 EZ-T8C-FU (Universal Ethernet) $1698 EZ-T8C-E (EZPLC) $949 EZ-T8C-RMC (RMC card installed) $1099	EZ-T10C-F (Full Featured) $1499 EZ-T10C-FC (CC Link) $2199 EZ-T10C-FD (DeviceNet) $2199 EZ-T10C-FE (Ethernet IP) $2199 EZ-T10C-FH (DH+, Remote I/O) $2199 EZ-T10C-FM (Modbus Plus) $2199 EZ-T10C-FP (Profibus) $2199 EZ-T10C-FT (Modbus TCP/IP) $2199 EZ-T10C-FU (Universal Ethernet) $1998 EZ-T10C-E (EZPLC) $1499 EZ-T10C-RMC (RMC card installed) $1649	EZ-T10C-FS (Full Featured) $1499 EZ-T10C-FSC (CC Link) $2199 EZ-T10C-FSD (DeviceNet) $2199 EZ-T10C-FSE (Ethernet IP) $2199 EZ-T10C-FSH (DH+, Remote I/O) $2199 EZ-T10C-FSM (Modbus Plus) $2199 EZ-T10C-FSP (Profibus) $2199 EZ-T10C-FST (Modbus TCP/IP) $2199 EZ-T10C-FSU (Universal Ethernet) $1998 EZ-T10C-RMC (RMC card installed) $1649	EZ-T15C-FS (Full Featured) $2199 EZ-T15C-FSC (CC Link) $2999 EZ-T15C-FSD (DeviceNet) $2999 EZ-T15C-FSE (Ethernet IP) $2999 EZ-T15C-FSH (DH+, Remote I/O) $2999 EZ-T15C-FSM (Modbus Plus) $2999 EZ-T15C-FSP (Profibus) $2999 EZ-T15C-FST (Modbus TCP/IP) $2999 EZ-T15C-FSU (Universal Ethernet) $2698 EZ-T15C-RMC (RMC card installed) $2349
				
Specification	8" color slim bezel	10" color slim bezel		15" color slim bezel
Enclosure	NEMA 4, 4X (indoor)	NEMA 4, 4X (indoor)	NEMA 4, 4X (indoor)	NEMA 4, 4X (indoor)
Display Type	8 " TFT (128-color palette)	10.4" TFT (128-color palette)		15.0" TFT (128-color palette)
Display View Area	6.05"x4.55" (153.7 x 115.8mm)	8.31"x6.22" (211.07 x 158mm)		12.02"x9.01" (305.28 x 228.96mm)
Screen Pixels	640x480			
Brightness/Life	370 nits/54,000 hours	400 nits/50,000 hours		250 nits/55,000 hours
Touch Screen	192 resistive touch cells (16x12)			
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)			
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended			
Power – Backlight On	18 Watts @ 24VDC			20 Watts @ 24VDC
Power – Backlight Off	9 Watts @ 24VDC			13 Watts @ 24VDC
Agency Approval	UL, CUL, CE pending	UL, CUL, CE		
Operating Temp.	0 to 55°C (32 to 138°F)			
Storage Temp.	-25 to 65°C (-13 to 149°F)			
Humidity	10-95% RH, noncondensing			
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)			
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)			
Vibration	5 to 55Hz 2G for 2 hours in the X, Y and Z axes			
Shock	10G for under 12ms in the X, Y and Z axes			
User Memory	512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer			1MB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer
# of Screens	Up to 999 limited by memory			
Real Time Clock	Built into panel (PLC clock is still accessible if available)			
Screen Saver	Yes, Backlight off			
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)			
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)			
	For Universal Ethernet model 15 D-sub is replaced by Universal Ethernet port			
External Dimensions	8.748"x10.894"x2.289" (222.199x276.708x58.136mm)	10.59"x13.58"x2.86" (268.99x344.93x72.64mm)		13.00"x16.75"x4.66" (330.2 x 425.45 x 118.36mm)
Weight	2.9 lbs	3.8 lbs		7 lbs

EZSeries CE Touchpanel Selection Guide & Specifications

EZSeries CE Touchpanel 6-inch Model Specifications				
Part Number	Windows CE.NET 4.2 Professional Plus *EZC-S6W-E* (Full Featured) $399 *EZC-S6W-EU* (Universal Ethernet) $898	Windows CE.NET 4.2 Professional Plus *EZC-S6M-E* (Full Featured) $449 *EZC-S6M-ED* (DeviceNet) $1799 *EZC-S6M-EH* (DH+) $1399 *EZC-S6M-EM* (Modbus Plus) $1399 *EZC-S6M-EP* (Profibus) $1799 *EZC-S6M-EC* (CC Link) $1399 *EZC-S6M-EU* (Universal Ethernet) $1298	Windows CE.NET 4.2 Professional Plus *EZC-S6C-E* (Full Featured) $649 *EZC-S6C-ED* (DeviceNet) $1899 *EZC-S6C-EH* (DH+) $1499 *EZC-S6C-EM* (Modbus Plus) $1499 *EZC-S6C-EP* (Profibus) $1899 *EZC-S6C-EC* (CC Link) $1499 *EZC-S6C-EU* (Universal Ethernet) $1398	Windows CE.NET 4.2 Professional Plus *EZC-T6C-E* (Full Featured) $769 *EZC-T6C-ED* (DeviceNet) $2299 *EZC-T6C-EH* (DH+) $1899 *EZC-T6C-EM* (Modbus Plus) $1899 *EZC-T6C-EP* (Profibus) $2299 *EZC-T6C-EC* (CC Link) $1899 *EZC-T6C-EU* (Universal Ethernet) $1798
				
Specification	6" white on blue	6" slim bezel gray scale	6" color slim bezel	
Display Type	5.7" STN (White on Blue)	5.7" STN (Monochrome)	5.7" STN (18 bit colors)	5.7" TFT (18 bit colors)
Enclosure	NEMA 4, 4X			
Display View Area	4.72"x3.5" (119.4x88.9 mm)		4.65"x3.5" (118.1 x 88.9mm)	
Screen Pixels	320x240			
Brightness/Life	140 nits/50,000 hours		200 nits/40,000 hours	400 nits/75,000 hours
Touch Screen	Analog Resistive Touch Screen			
CPU Type	AMD 333 MHz 32 Bit CPU			
Service Power	24VDC (20-30VDC operating range), 1.2A switching supply recommended		24VDC (20-30VDC operating range), 1.5A switching supply recommended	
Power	10 watts @ 24VDC	12 watts @ 24VDC	13 Watts @ 24VDC	15 Watts @ 24VDC
Agency Approval	UL, CUL, CE pending			
Operating Temp.	0 to 45°C		0 to 50°C	0° to 55°C
Storage Temp.	-20° to 65°C			
Humidity	10-95% RH, noncondensing			
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)			
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)			
Vibration	5 to 55Hz 3G for 2 hours in the X, Y and Z axes			
Shock	20G for under 12ms in the X, Y and Z axes			
User Memory	32 MB Built-in Flash; 64 MB RAM; Optional Compact Flash Card for Memory Backup/Transfer			
Num. of Screens	Up to 999 limited by memory			
Real Time Clock	Built into panel (PLC clock is still accessible if available)			
Screen Saver	Yes, Backlight off			
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)			
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)			
	Optional Ethernet with Ethernet IP, EZ IP, Modbus TCP/IP, SRTP, Koyo ECOM and TCP/IP for Programming			
	For Universal Ethernet model 15 D-sub is replaced by Universal Ethernet port			
External Dimensions	6.145"x8.048"x2.433" (156.078x204.407x51.786mm)			
Weight	1.7 lbs			

EZSeries CE Touchpanel Selection Guide and Specifications

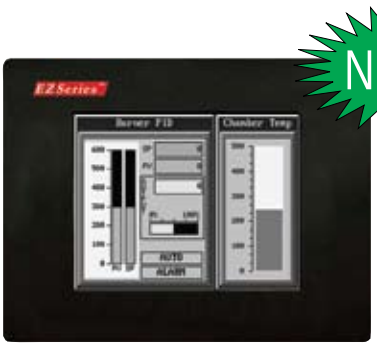
EZSeries CE Touchpanel 8, 10 and 15-inch Model Specifications				
Part Number	Windows CE.NET 4.2 Professional Plus *EZC-S8C-E* (Full Featured) $849 *EZC-S8C-ED* (DeviceNet) $2399 *EZC-S8C-EH* (DH+) $1999 *EZC-S8C-EM* (Modbus Plus) $1999 *EZC-S8C-EP* (Profibus) $2399 *EZC-S8C-EC* (CC Link) $1999 *EZC-S8C-EU* (Universal Ethernet) $1898	Windows CE.NET 4.2 Professional Plus *EZC-T8C-E* (Full Featured) $949 *EZC-T8C-ED* (DeviceNet) $2599 *EZC-T8C-EH* (DH+) $2199 *EZC-T8C-EM* (Modbus Plus) $2199 *EZC-T8C-EP* (Profibus) $2599 *EZC-T8C-EC* (CC Link) $2199 *EZC-T8C-EU* (Universal Ethernet) $2098	Windows CE.NET 4.2 Professional Plus *EZC-T10C-E* (Full Featured) $1499 *EZC-T10C-ED* (DeviceNet) $2899 *EZC-T10C-EH* (DH+) $2499 *EZC-T10C-EM* (Modbus Plus) $2499 *EZC-T10C-EP* (Profibus) $2899 *EZC-T10C-EC* (CC Link) $2499 *EZC-T10C-EU* (Universal Ethernet) $2398	Windows CE.NET 4.2 Professional Plus *EZC-T15C-E* (Full Featured) $2199 *EZC-T15C-ED* (DeviceNet) $3699 *EZC-T15C-EH* (DH+) $3299 *EZC-T15C-EM* (Modbus Plus) $3299 *EZC-T15C-EP* (Profibus) $3699 *EZC-T15C-EC* (CC Link) $3299 *EZC-T15C-EU* (Universal Ethernet) $3198
				
Specification	8" color slim bezel		10" color slim bezel	15" color slim bezel
Display Type	8.2" STN (18 bit colors)	8" TFT (18 bit colors)	10.4" TFT (18 bit colors)	15.0" TFT (18 bit colors)
Enclosure	NEMA 4, 4X			
Display View Area	6.65"x5.024" (168.9x127.61 mm)	6.05"x4.55" (153.7x115.8 mm)	8.31"x6.22" (211.07 x 158mm)	12.02"x9.01" (305.28 x 228.96mm)
Screen Pixels	640x480			1024x768
Brightness/Life	140 nits/25,000 hours	370 nits/54,000 hours	400 nits/50,000 hours	250 nits/55,000 hours
Touch Screen	Analog Resistive Touch Screen			
CPU Type	AMD 333 MHz 32-bit CPU			
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended			
Power	16 Watts @ 24VDC		18 Watts @ 24VDC	20 Watts @ 24VDC
Agency Approval	UL, CUL, CE (pending)			
Operating Temp.	0 to 50°C (32 to 122°F)	0° to 55°C (32 to 131°F)	0° to 55°C (32 to 131°F)	0° to 55°C
Storage Temp.	-20° to 65°C			
Humidity	10-95% RH, noncondensing			
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)			
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)			
Vibration	5 to 55Hz 3G for 2 hours in the X, Y and Z axes			
Shock	20G for under 12ms in the X, Y and Z axes			
User Memory	32 MB Built-in Flash; 64 MB RAM			
Num. of Screens	Up to 999 limited by memory			
Real Time Clock	Built into panel (PLC clock is still accessible if available)			
Screen Saver	Yes, Backlight off			
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)			
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)			
	Optional Ethernet with Ethernet IP, EZ IP, Modbus TCP/IP, SRTP, Koyo ECOM and TCP/IP for Programming			
	For Universal Ethernet model 15 D-sub is replaced by Universal Ethernet port			
External Dimensions	8.748"x10.894"x2.289" (222.199x276.708x58.136mm)		10.59"x13.58"x2.86" (268.99x344.93x72.64mm)	13.00"x16.75"x4.66" (330.2 x 425.45 x 118.36mm)
Weight	2.9 lbs		3.8 lbs	7 lbs

EZSeries 4” Monochrome Panels

4” Monochrome EZSeries (3.8” STN)

EZSeries 4” Monochrome panel has a 3.8” diagonal touch screen with 320x240 pixel resolution. This panel has an STN LCD (liquid crystal display) with 16 shades of gray. It is available with serial drivers and “E” option has Ethernet IP, EZ IP, Modbus TCP/IP, SRTP, Koyo ECOM and TCP/IP for programming.

All these panels have a very low slim profile along with a smaller footprint on enclosures.



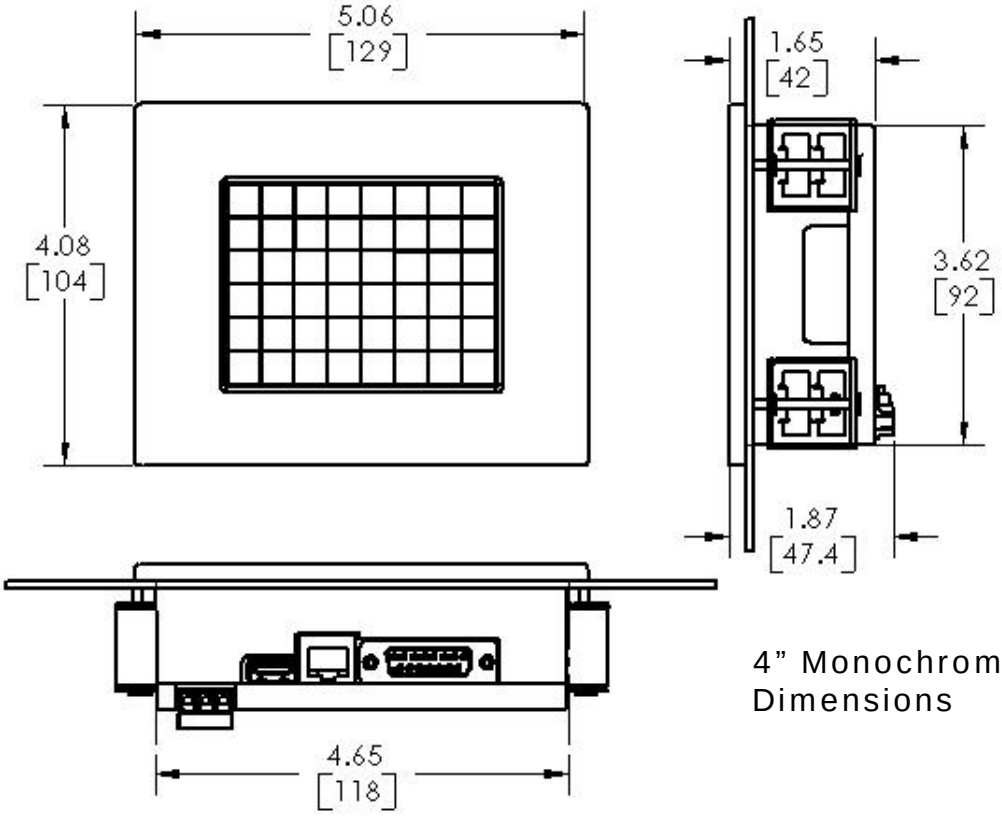
4” Mono models feature:

- 3.8” diagonal mono STN LCD
- 16 shades of gray
- NEMA 4,4X
- 320x240 pixel resolution
- 140 nits brightness
- 50,000 hour expected bulb half-life
- 1/4” gasket and four DIN mounting clips
- 48 touch cells (8x6)
- Has all EZSeries Touchpanel objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming Software

See the different communication interface options available in the chart to the right

Model Number	Interface	Price	Del.
EZ-S4M-FS	All serial drivers (non-expandable)	$199	STK
EZ-S4M-FE	Ethernet IP, EZ IP, Modbus TCP/IP, SRTP, Koyo ECOM and TCP/IP for programming	$299	STK

Notes:
1. These panels do not have a built-in Real-time clock and program back-up battery as the user program stored in flash
2. They do not have the option for use of Network cards such as DH+ or Profibus
3. These panels do not need RMC card for Remote Monitoring and Control, as this function can be performed over either built-in Ethernet port or Serial port

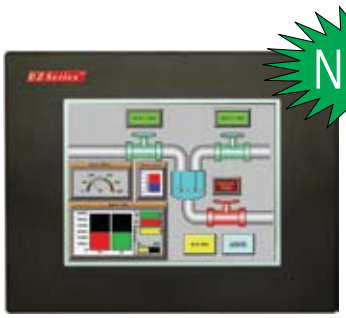


4” Monochrome Dimensions

EZSeries 3.5” TFT Panel

3.5” TFT Color EZSeries

EZSeries 3.5” panel has a 3.5” diagonal touch screen with 320x240 pixel resolution. This panel has TFT LCD (liquid crystal display) with 128 colors. It is available with serial drivers and “E” option has Ethernet IP, EZ IP, Modbus TCP/IP, SRTP, Koyo ECOM and TCP/IP for programming.



All these panels have a very low slim profile along with a smaller footprint on enclosures.

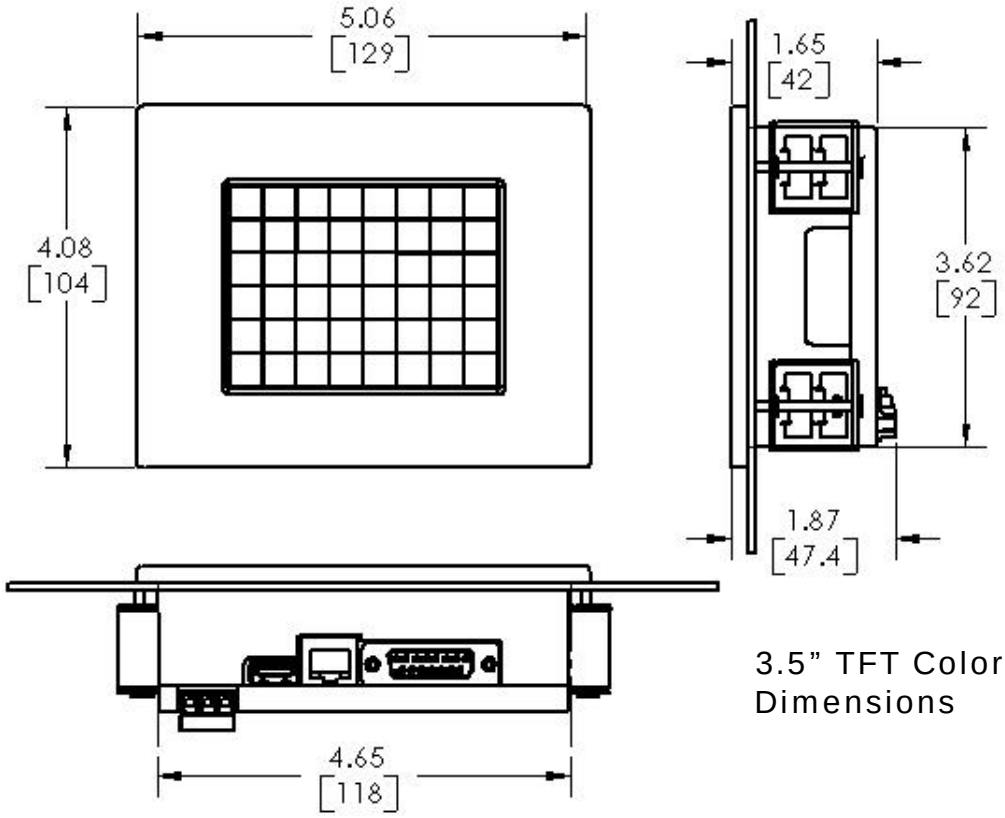
3.5” TFT Color models feature:

- 3.5” diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 4,4X
- 320x240 pixel resolution
- 400 nits brightness
- 75,000 hour expected bulb half-life
- 48 touch cells (8x6)
- 1/4” gasket and four DIN mounting clips
- Has all EZSeries Touchpanel
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming Software

See the different communication interface options available in the chart to the right

Model Number	Interface	Price	Del.
EZ-T4C-FS	All serial drivers (non-expandable)	$299	STK
EZ-T4C-FE	Ethernet IP, EZ IP, Modbus TCP/IP, SRTP, Koyo ECOM and TCP/IP for programming	$399	STK

Notes:
1. These panels do not have a built-in Real-time clock and program back-up battery as the user program stored in flash
2. They do not have the option for use of Network cards such as DH+ or Profibus
3. These panels do not need RMC card for Remote Monitoring and Control, as this function can be performed over either built-in Ethernet port or Serial port



3.5” TFT Color Dimensions

EZSeries 6” White on Blue Panel

6” White on Blue EZSeries (5.7” STN)

EZSeries 6” slim bezel White on Blue panel has a 5.7” diagonal touch screen with 320x240 pixel resolution with 4 shades of blue. This panel has a LCD (liquid crystal display) and is available for serial drivers or Universal Ethernet with a choice of either DF1, I/P, Modbus TCP/IP or SRTP protocols. This panel has a very low slim profile along with a smaller footprint on enclosures.

NOTE: EZSeries CE Touchpanels have built-in Ethernet yet are still available with additional Universal Ethernet option if the application needs multiple processors



EZSeries Touchpanel feature:

- 5.7” diagonal LCD
- 4 shades of blue
- NEMA 4, 4X
- 320x240 pixel resolution
- 140 nits brightness
- 25,000 hour expected bulb half-life
- 48 touch cells (8x6)
- 1/4” gasket and four DIN mounting clips
- 2.3” (59.0mm) installed depth
- 256K RAM, not expandable
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software

EZSeries CE Touchpanel

Part Number	Description	Price	Del.
EZC-S6W-E	6” Mono White-on-blue display, Enhanced CE 4.2 PP, Nema 4, 4X	$399	STK
EZC-S6W-EU	6” Mono White-on-blue display, Enhanced CE 4.2 PP, Universal Ethernet, Nema 4, 4X	$898	3DAY

EZSeries CE Touchpanels with Windows CE Professional Plus offer:

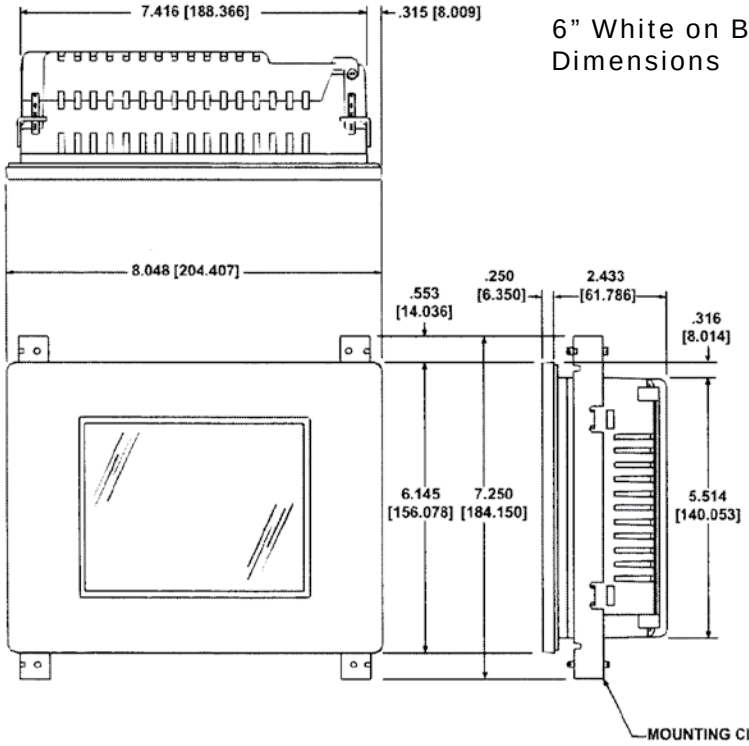
- File viewers such as Video, Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE
- Built-in Ethernet protocols, Ethernet IP, EZ IP, SRTP, Modbus TCP/IP and Koyo ECOM

EZSeries Dedicate OS

Model Number	Interface	Price	Del.
EZ-S6W-RS	All serial drivers	$369	STK
EZ-S6W-RSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	$798	3DAY

EZSeries CE Touchpanel feature:

- 5.7” diagonal LCD
- NEMA 4, 4X
- 320x240 pixel resolution
- 140 nits brightness
- 25,000 hour expected bulb half-life
- Analog resistive touch screen
- Alchemy 333 MHz Processor
- 32MB Flash, 64MB RAM and 2 MB for HMI
- 1/4” gasket and four DIN mounting clips for NEMA 4/4X
- 2.43” installed depth
- Has all EZSeries Touchpanel
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software



6” White on Blue Dimensions

EZSeries 6” Mono Panels

6” Monochrome EZSeries - (5.7” STN)

EZSeries ’s 6” mono panels have a 5.7” diagonal touch screen, with a 320x240 pixel resolution and feature an STN LCD (liquid crystal display) with 16 shades of gray. There are three 6” mono panels to choose from: one with reduced memory/no Ethernet option, one with full 512K memory which accepts Ethernet cards, and the third with DH+/Remote I/O.



6” Mono models feature:

- 5.7” diagonal mono STN LCD
- 16 shades of gray
- NEMA 4, 4X (indoor)
- 320x240 pixel resolution
- 200 nits brightness
- 75,000 hour expected bulb half-life
- 1/4” O-ring gasket and eight mounting studs for NEMA 4/4X (indoor)
- 2.3” (59.0mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Touchpanel Editor

See the different communication interface options available in the charts to the right

EZSeries Touchpanel

Model Number	Interface	Price	Del.
EZ-S6M-R	All serial drivers (non-expandable)	$399	STK

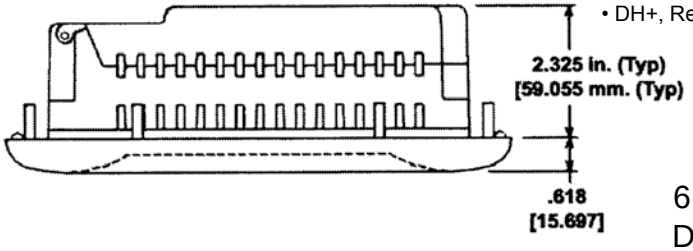
Panels with Reduced Memory offer:

- 256K RAM, not expandable
- No Ethernet or DH+ card support
- 48 touch cells (8x6)

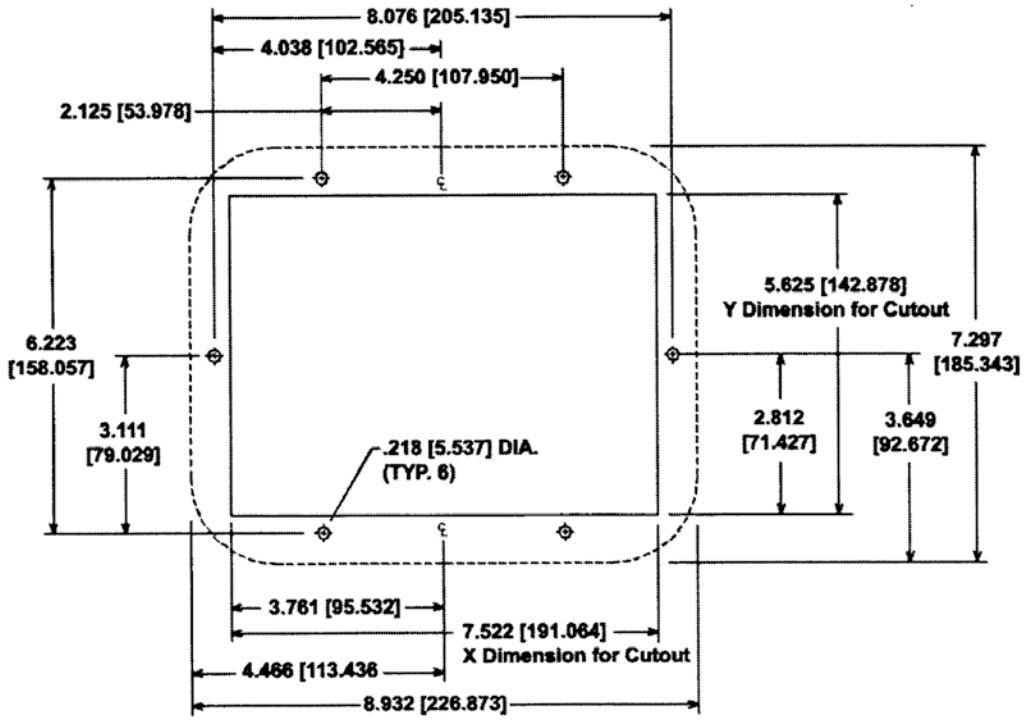
Model Number	Interface	Price	Del.
EZ-S6M-F	All serial drivers and accepts optional Ethernet cards	$479	STK
EZ-S6M-FH	DH+, Remote I/O	$979	3DAY

Panels with Full Memory offer:

- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- Modbus TCP/IP card optional (EZP-ETHERPLUS)
- 48 touch cells (8x6)
- DH+, Remote I/O option



6” Mono Dimensions

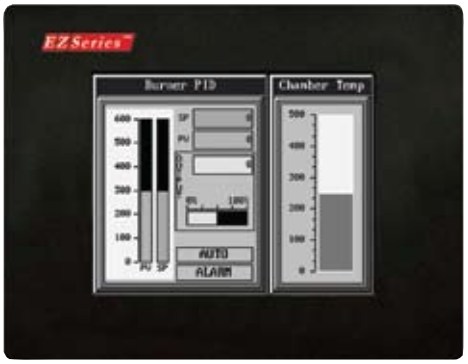


EZSeries 6” Mono Slim Bezel Panels

6” Monochrome EZSeries (5.7” STN)

EZSeries ’s 6” slim bezel panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These panels have an STN LCD (liquid crystal display) with 16 shades of gray. EZSeries are available in 2 models:
1) Reduced Memory, not expandable, no network cards, 48 touch cells
2) Full memory, expandable, all network option cards, 192 touch cells.

NOTE: EZSeries CE Touchpanels have built-in Ethernet yet are still available with additional Universal Ethernet option if the application needs multiple processors



EZSeries Touchpanel feature:

- 5.7” diagonal mono STN LCD
- 16 shades of gray
- NEMA 4, 4X
- 320x240 pixel resolution
- 140 nits brightness
- 50,000 hour expected bulb half-life
- 1/4” gasket and four DIN mounting clips for NEMA 4, 4X
- 2.3” (59.0mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming Software

See the different communication interface options available in the charts to the right

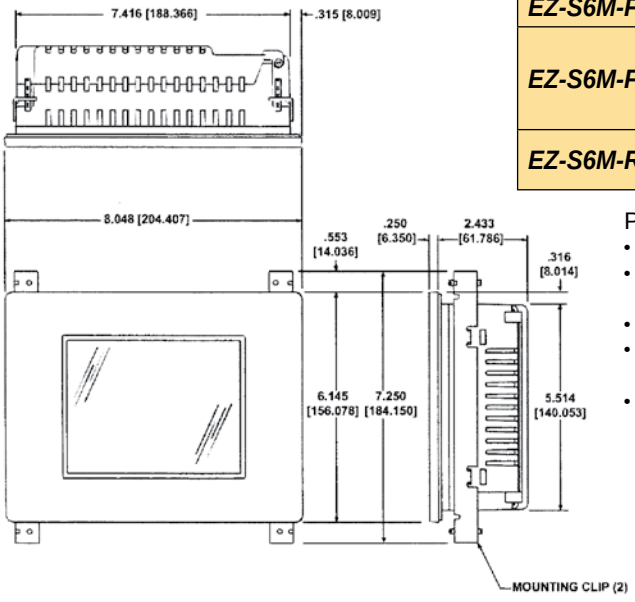
EZSeries CE Touchpanel feature:

- 5.7” diagonal mono STN LCD
- NEMA 4, 4X
- 320x240 pixel resolution
- Analog resistive touch screen
- 140 nits brightness
- 50,000 hour expected bulb half-life
- Alchemy 333 MHz Processor
- 32MB Flash, 64MB RAM and 2 MB for HMI
- 1/4” gasket and four DIN mounting clips
- 2.43” installed depth
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software

EZSeries CE Touchpanel

Part Number	Description	Price	Del.
EZC-S6M-E	6” Mono Gray scale, Enhanced CE 4.2 PP, Nema 4, 4X	$449	3DAY
EZC-S6M-ED	6” Mono Gray scale, Enhanced CE 4.2 PP, DeviceNet, Nema 4, 4X	$1,799	3DAY
EZC-S6M-EH	6” Mono Gray scale, Enhanced CE 4.2 PP, DH+, Nema 4, 4X	$1,399	3DAY
EZC-S6M-EM	6” Mono Gray scale, Enhanced CE 4.2 PP, MB+, Nema 4, 4X	$1,399	3DAY
EZC-S6M-EP	6” Mono Gray scale, Enhanced CE 4.2 PP, Profibus, Nema 4, 4X	$1,799	3DAY
EZC-S6M-EC	6” Mono Gray scale, Enhanced CE 4.2 PP, CCLink, Nema 4, 4X	$1,399	3DAY
EZC-S6M-EU	6” Mono Gray scale, Enhanced CE 4.2 PP, Universal Ethernet, Nema 4, 4X	$1,298	3DAY

Enhanced CE Touchpanels with Windows CE Professional Plus offer:
- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE
- Built-in Ethernet protocols, Ethernet IP, EZ IP, SRTP, Modbus TCP/IP and Koyo ECOM



EZSeries Dedicated OS

Model Number	Interface	Price	Del.
EZ-S6M-ES	EZPLC only	$399	STK
EZ-S6M-RS	All serial drivers (non-expandable)	$399	STK

Panels with Reduced Features offer:
- 256K RAM, not expandable
- No Ethernet card support
- 48 touch cells (8x6)

Model Number	Interface	Price	Del.
EZ-S6M-FS	All serial drivers and accepts optional Ethernet and network cards	$449	STK
EZ-S6M-FSD	DeviceNet	$1,049	3DAY
EZ-S6M-FSE	AB Ethernet I/P	$1,049	3DAY
EZ-S6M-FSH	DH+, Remote I/O	$1,049	3DAY
EZ-S6M-FSM	Modicon MB+	$1,049	3DAY
EZ-S6M-FSP	Profibus	$1,049	3DAY
EZ-S6M-FST	Modbus TCP/IP	$849	3DAY
EZ-S6M-FSC	CCLink	$1,049	3DAY
EZ-S6M-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	$848	3DAY
EZ-S6M-RMC	RMC card Installed	$599	3DAY

Panels with Full Memory offer:
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZ-ETHERNET)
- Modbus TCP/IP card optional (EZ-ETHERPLUS)
- 192 touch cells (16x12)

EZSeries 6” STN Color Panels

6” Color EZSeries - (5.7” STN)

EZSeries 6” panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These panels have an STN LCD (liquid crystal display).

There are three 6” color panels to choose from: one with Koyo driver only, one with full 512K memory which accepts Ethernet cards, and the third with DH+/Remote I/O.



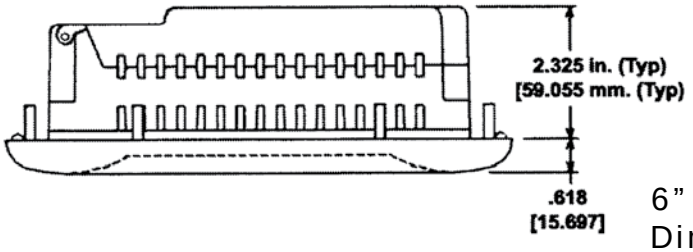
6” STN Color models feature:

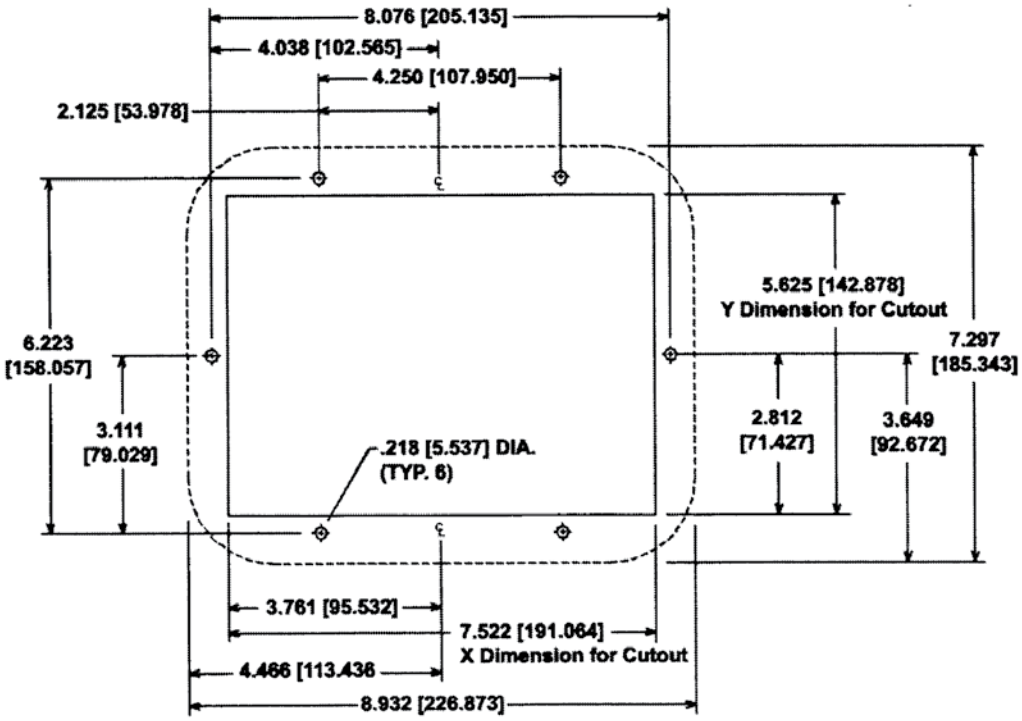
- 5.7” diagonal color STN LCD
- 128 colors
- NEMA 4, 4X (indoor)
- 320x240 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- Modbus TCP/IP card optional (EZP-ETHERPLUS)
- 400 nits brightness
- 75,000 hour expected bulb half-life
- 48 touch cells (8x6)
- 1/4” O-ring gasket and eight mounting studs for NEMA 4/4X (indoor)
- 2.3” (59.0mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Touchpanel Editor

See the many different communication interface options available in the chart to the right

EZSeries Touchpanel

Model Number	Interface	Price	Del.
EZ-S6C-K	Koyo Direct Logic	$699	STK
EZ-S6C-F	All serial drivers	$699	STK
EZ-S6C-FH	DH+, Remote I/O	$1,199	3DAY





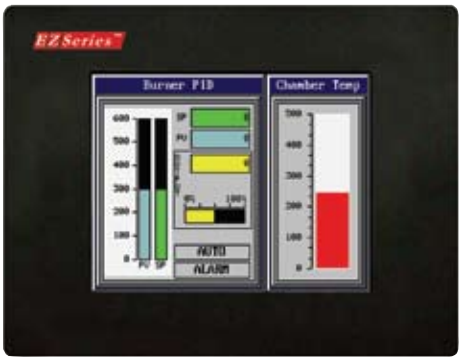
6” STN Color Dimensions

EZSeries 6” STN Color Panels

6” Color EZSeries (5.7” STN)

EZSeries 6” panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These panels have a STN LCD (liquid crystal display).

NOTE: EZSeries CE Touchpanels have built-in Ethernet yet are still available with additional Universal Ethernet option if the application needs multiple processors



EZSeries Touchpanel feature:

- 5.7” diagonal color STN LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 4, 4X
- 320x240 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- 200 nits brightness
- 40,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 4, 4X
- 2.3” (59.0mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries programming software

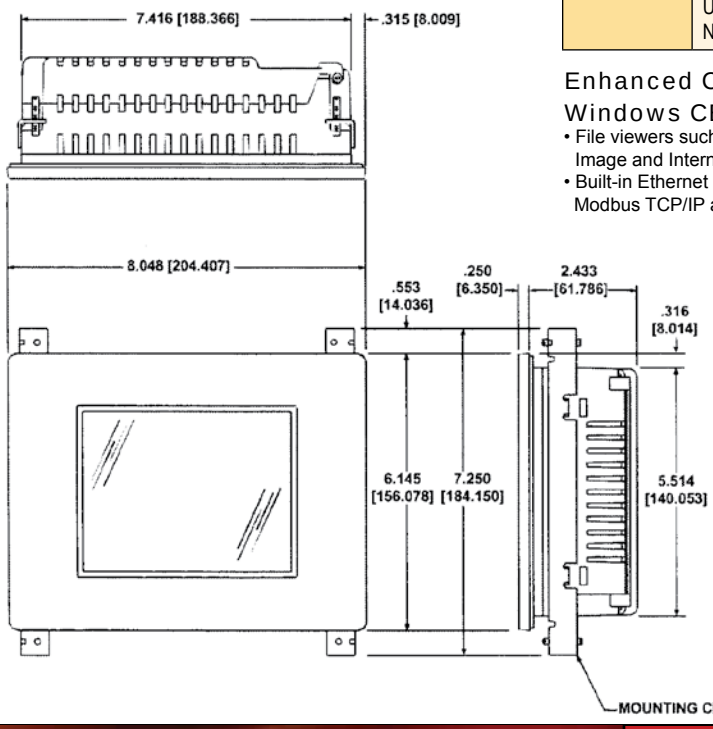
See the many different communication interface options available in the chart to the right

EZSeries CE Touchpanel feature:

- 5.7” diagonal color STN LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4, 4X
- 320x240 pixel resolution
- 200 nits brightness
- 40,000 hour expected bulb half-life
- Analog resistive touch screen
- Alchemy 333 MHz Processor
- 32MB Flash, 64MB RAM and 2 MB for HMI
- 1/4” gasket and four DIN mounting clips
- 2.43” installed depth
- Has all EZSeries Touchpanel
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software

EZSeries Dedicated OS

Model Number	Interface	Price	Del.
EZ-S6C-KS	Koyo Direct Logic serial driver only	$649	STK
EZ-S6C-ES	EZPLC driver only	$649	STK
EZ-S6C-FS	All serial drivers and accepts optional Ethernet and network cards	$649	STK
EZ-S6C-FSD	DeviceNet	$1,299	3DAY
EZ-S6C-FSE	AB Ethernet I/P	$1,299	3DAY
EZ-S6C-FSH	DH+, Remote I/O	$1,299	3DAY
EZ-S6C-FSM	Modicon MB+	$1,299	3DAY
EZ-S6C-FSP	Profibus	$1,299	3DAY
EZ-S6C-FST	Modbus TCP/IP	$1,069	3DAY
EZ-S6C-FSC	CCLink	$1,299	3DAY
EZ-S6C-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	$1,098	3DAY
EZ-S6C-RMC	RMC card Installed	$799	3DAY



EZSeries CE Touchpanel

Part Number	Description	Price	Del.
EZC-S6C-E	6” Color STN, Enhanced CE 4.2 PP, Nema 4, 4X	$649	3DAY
EZC-S6C-ED	6” Color STN, Enhanced CE 4.2 PP, DeviceNet, Nema 4, 4X	$1,899	3DAY
EZC-S6C-EH	6” Color STN, Enhanced CE 4.2 PP, DH+, Nema 4, 4X	$1,499	3DAY
EZC-S6C-EM	6” Color STN, Enhanced CE 4.2 PP, MB+, Nema 4, 4X	$1,499	3DAY
EZC-S6C-EP	6” Color STN, Enhanced CE 4.2 PP, Profibus, Nema 4, 4X	$1,899	3DAY
EZC-S6C-EC	6” Color STN, Enhanced CE 4.2 PP, CCLink, Nema 4, 4X	$1,499	3DAY
EZC-S6C-EU	6” Color STN, Enhanced CE 4.2 PP, Universal Ethernet, Nema 4, 4X	$1,398	3DAY

Enhanced CE Touchpanels with Windows CE Professional Plus offer:

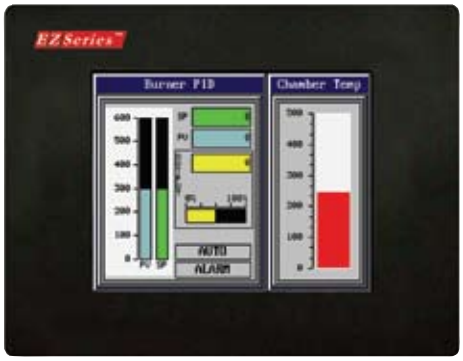
- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE
- Built-in Ethernet protocols, Ethernet IP, EZ IP, SRTP, Modbus TCP/IP and Koyo ECOM

EZSeries 6” TFT Color Panels

6” Color EZSeries (5.7” TFT)

EZSeries 6” panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. This model is a new addition to EZSeries line with a TFT LCD (liquid crystal display).

NOTE: EZSeries CE Touchpanels have built-in Ethernet yet are still available with additional Universal Ethernet option if the application needs multiple processors



EZSeries Touchpanel feature:

- 5.7” diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 4, 4X
- 320x240 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- 400 nits brightness
- 75,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 4, 4X
- 2.3” (59.0mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries programming software

See the different communication interface options available in the chart to the right

EZSeries CE Touchpanel

Part Number	Description	Price	Del.
EZC-T6C-E	6” Color TFT, Enhanced CE 4.2 PP, Nema 4, 4X	$769	3DAY
EZC-T6C-ED	6” Color TFT, Enhanced CE 4.2 PP, DeviceNet, Nema 4, 4X	$2,299	3DAY
EZC-T6C-EH	6” Color TFT, Enhanced CE 4.2 PP, DH+, Nema 4, 4X	$1,899	3DAY
EZC-T6C-EM	6” Color TFT, Enhanced CE 4.2 PP, MB+, Nema 4, 4X	$1,899	3DAY
EZC-T6C-EP	6” Color TFT, Enhanced CE 4.2 PP, Profibus, Nema 4, 4X	$2,299	3DAY
EZC-T6C-EC	6” Color TFT, Enhanced CE 4.2 PP, CCLink, Nema 4, 4X	$1,899	3DAY
EZC-T6C-EU	6” Color TFT, Enhanced CE 4.2 PP, Universal Ethernet, Nema 4, 4X	$1,798	3DAY

Enhanced CE Touchpanels with Windows CE Professional Plus offer:

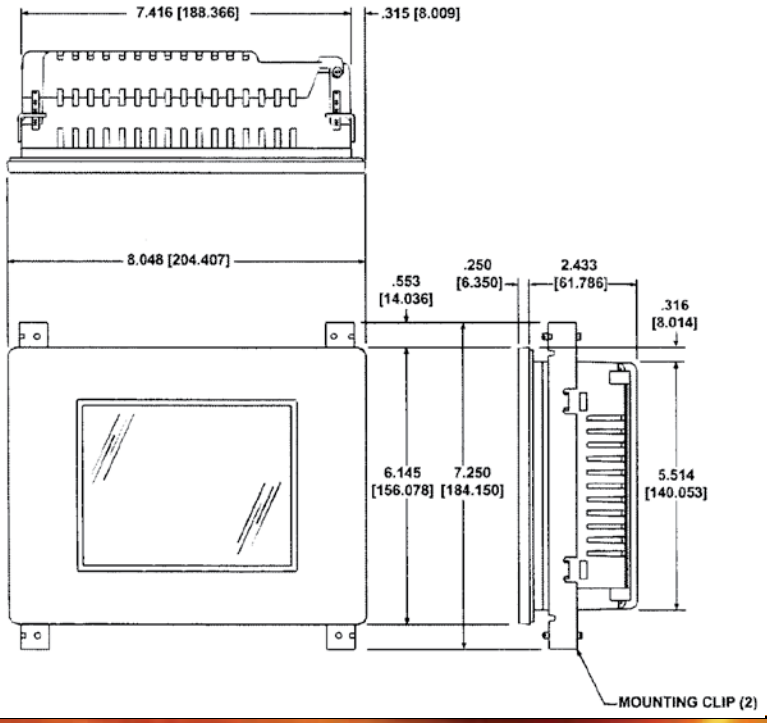
- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE
- Built-in Ethernet protocols, Ethernet IP, EZ IP, SRTP, Modbus TCP/IP and Koyo ECOM

EZSeries Dedicated OS

Model Number	Interface	Price	Del.
EZ-T6C-ES	EZPLC driver only	$769	STK
EZ-T6C-FS	All serial drivers and accepts Ethernet and network cards	$769	STK
EZ-T6C-FSD	DeviceNet	$1,499	3DAY
EZ-T6C-FSE	AB Ethernet I/P	$1,499	3DAY
EZ-T6C-FSH	DH+, Remote I/O	$1,499	3DAY
EZ-T6C-FSM	Modicon MODBUS Plus	$1,499	3DAY
EZ-T6C-FSP	Profibus	$1,499	3DAY
EZ-T6C-FST	MODBUS TCP/IP	$1,269	3DAY
EZ-T6C-FSC	CCLink	$1,499	3DAY
EZ-T6C-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	$1,398	3DAY
EZ-T6C-RMC	RMC card installed	$919	3DAY

EZSeries CE Touchpanel feature:

- 5.7” diagonal color TFT LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4, 4X
- 320x240 pixel resolution
- 400 nits brightness
- 75,000 hour expected bulb half-life
- Analog resistive touch screen
- Alchemy 333 MHz Processor
- 32MB Flash, 64MB RAM and 2 MB for HMI
- 1/4” gasket and four DIN mounting clips
- 2.43” installed depth
- Has all EZSeries Touchpanel
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software

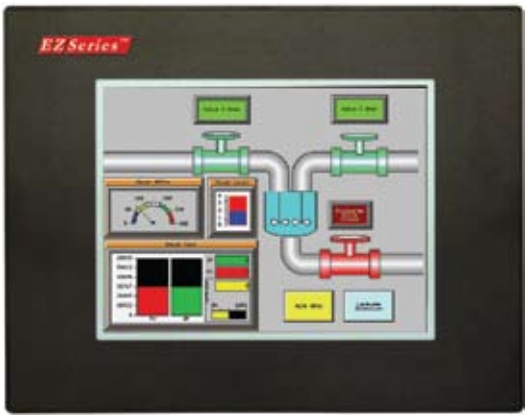


EZSeries 8” STN Color Panels

8” Color EZSeries (8.2” STN)

The 8” color EZSeries panels have a 8.2” diagonal touch screen, with a 640x480 pixel resolution and feature a STN LCD (liquid crystal display). All models feature a low-profile slim bezel design that provides a small footprint on your enclosure. These panels are available in either NEMA 4, 4X, FDA compliant or NEMA 4, 4X housing. See note below.

NOTE: EZSeries CE Touchpanels have built-in Ethernet yet are still available with additional Universal Ethernet option if the application needs multiple processors



EZSeries Touchpanel Features

- 8.2” diagonal color STN LCD
- Low-profile slim bezel design
- 128 colors
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- MODBUS TCP/IP card optional (EZP-ETHERPLUS)
- 140 nits brightness
- 25,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 4, 4X
- 1/4” O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.76” (60.53mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming Software

See the different communication interface options available in the chart to the right

EZSeries CE Touchpanel Features

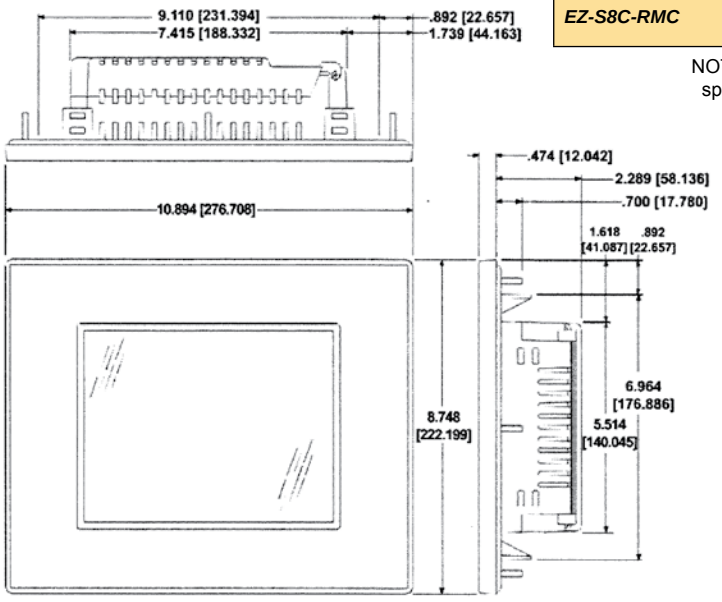
- 8.2” diagonal color STN LCD
- Nema 4, 4X
- Low-profile slim bezel design
- 18 bit colors
- 640x480 pixel resolution
- 140 nits brightness
- 25,000 hour expected bulb half-life
- Analog resistive touch screen
- Alchemy 333 MHz Processor
- 32MB Flash, 64MB RAM and 2 MB for HMI
- 1/4” O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.29” installed depth
- Has all EZSeries Touchpanel
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software

EZSeries CE Touchpanel

Part Number	Description	Price	Del.
EZC-S8C-E	8” Color STN, Enhanced CE 4.2 PP, Nema 4,4x	$849	3DAY
EZC-S8C-ED	8” Color STN, Enhanced CE 4.2 PP, DeviceNet, Nema 4,4x	$2,399	3DAY
EZC-S8C-EH	8” Color STN, Enhanced CE 4.2 PP, DH+, Nema 4,4x	$1,999	3DAY
EZC-S8C-EM	8” Color STN, Enhanced CE 4.2 PP, MB+, Nema 4,4x	$1,999	3DAY
EZC-S8C-EP	8” Color STN, Enhanced CE 4.2 PP, Profibus, Nema 4,4x	$2,399	3DAY
EZC-S8C-EC	8” Color STN, Enhanced CE 4.2 PP, CCLink, Nema 4,4x	$1,999	3DAY
EZC-S8C-EU	8” Color STN, Enhanced CE 4.2 PP, Universal Ethernet, Nema 4,4x	$1,898	3DAY

Enhanced CE Touchpanels with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE
- Built-in Ethernet protocols, Ethernet IP, EZ IP, SRTP, Modbus TCP/IP and Koyo ECOM



EZSeries Dedicated OS

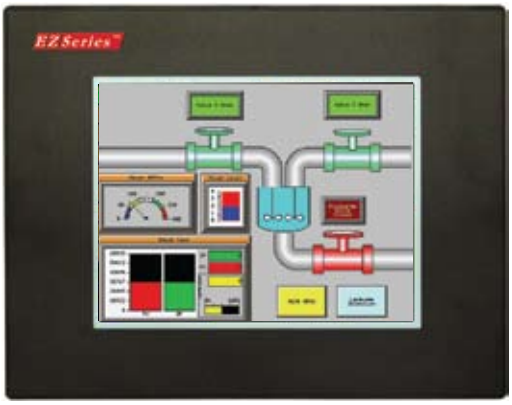
Model Number	Interface	Price	Del.
EZ-S8C-FS ***EZ-S8C-F***	All serial drivers and accepts optional Ethernet and network cards	$849	STK
EZ-S8C-FSD ***EZ-S8C-FD***	DeviceNet	$1,449	3DAY
EZ-S8C-FSE ***EZ-S8C-FE***	AB Ethernet I/P	$1,499	3DAY
EZ-S8C-FSH ***EZ-S8C-FH***	DH+, Remote I/O	$1,449	3DAY
EZ-S8C-FSM ***EZ-S8C-FM***	Modicon MB+	$1,449	3DAY
EZ-S8C-FSP ***EZ-S8C-FP***	Profibus	$1,499	3DAY
EZ-S8C-FST ***EZ-S8C-FT***	MODBUS TCP/IP	$1,399	3DAY
EZ-S8C-FSC ***EZ-S8C-FC***	CCLink	$1,449	3DAY
EZ-S8C-FSU ***EZ-S8C-FU***	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	$1,248	3DAY
EZ-S8C-RMC	RMC card Installed	$999	3DAY

NOTE: Both “F” & “FS” models have same specifications

EZSeries 8" TFT Color Panels

8" Color EZSeries (8" TFT)

EZSeries 8" panels have a 8" diagonal touch screen with 640x480 pixel resolution. This model has a TFT LCD (liquid crystal display).



NOTE: EZSeries CE Touchpanels have built-in Ethernet yet are still available with additional Universal Ethernet option if the application needs multiple processors

EZSeries Touchpanel Features

- 8" diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- MODBUS TCP/IP card optional (EZP-ETHERPLUS)
- 370 nits brightness
- 54,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4" O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.76" (70.10mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming Software

See the different communication interface options available in the chart to the right

EZSeries CE Touchpanel Features

- 8" diagonal color TFT LCD
- Low-profile slim bezel design
- 18 bit colors
- 640x480 pixel resolution
- 370 nits brightness
- 54,000 hour expected bulb half-life
- Analog resistive touch screen
- Alchemy 333 MHz Processor
- 32MB Flash, 64MB RAM and 2 MB for HMI
- 1/4" O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.29" installed depth
- Has all EZSeries Touchpanel
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software

EZSeries CE Touchpanel

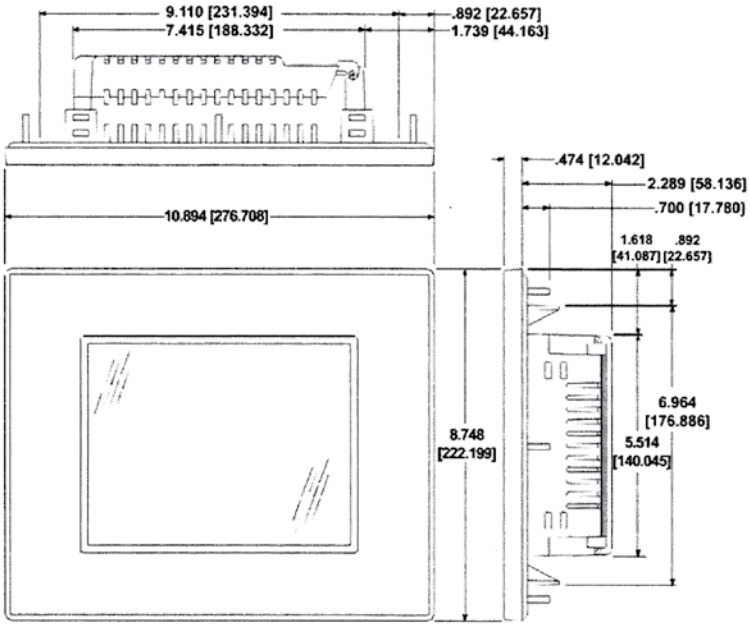
Part Number	Description	Price	Del.
EZC-T8C-E	8" Color TFT, Enhanced CE 4.2 PP, Nema 4,4x	$949	3DAY
EZC-T8C-ED	8" Color TFT, Enhanced CE 4.2 PP, DeviceNet, Nema 4,4x	$2,599	3DAY
EZC-T8C-EH	8" Color TFT, Enhanced CE 4.2 PP, DH+, Nema 4,4x	$2,199	3DAY
EZC-T8C-EM	8" Color TFT, Enhanced CE 4.2 PP, MB+, Nema 4,4x	$2,199	3DAY
EZC-T8C-EP	8" Color TFT, Enhanced CE 4.2 PP, Profibus, Nema 4,4x	$2,599	3DAY
EZC-T8C-EC	8" Color TFT, Enhanced CE 4.2 PP, CCLink, Nema 4,4x	$2,199	3DAY
EZC-T8C-EU	8" Color TFT, Enhanced CE 4.2 PP, Universal Ethernet, Nema 4,4x	$2,098	3DAY

Enhanced CE Touchpanels with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE
- Built-in Ethernet protocols, Ethernet IP, EZ IP, SRTP, Modbus TCP/IP and Koyo ECOM

EZSeries Dedicated OS

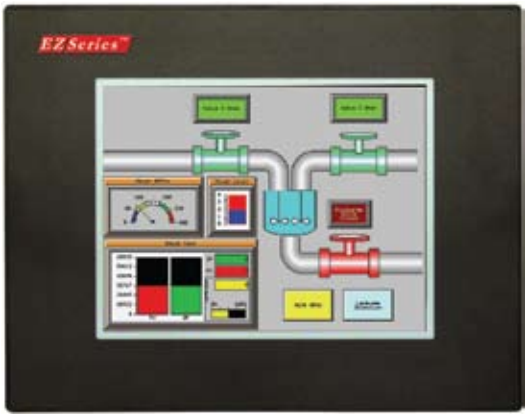
Model Number	Interface	Price	Del.
EZ-T8C-E	EZPLC only	$949	STK
EZ-T8C-F	All serial drivers and accepts Ethernet and network cards	$949	STK
EZ-T8C-FD	DeviceNet	$1,799	3DAY
EZ-T8C-FE	AB Ethernet I/P	$1,799	3DAY
EZ-T8C-FH	DH+, Remote I/O	$1,799	3DAY
EZ-T8C-FM	Modicon MODBUS Plus	$1,799	3DAY
EZ-T8C-FP	Profibus	$1,799	3DAY
EZ-T8C-FT	MODBUS TCP/IP	$1,799	3DAY
EZ-T8C-FC	CCLink	$1,799	3DAY
EZ-T8C-FU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	$1,698	3DAY
EZ-T8C-RMC	RMC card Installed	$1099	3DAY



EZSeries 10” TFT Color Panels

10” Color EZSeries (10.4” TFT)

The 10” color EZSeries panels have a 10.4” diagonal touch screen, with a 640x480 pixel resolution and feature a TFT LCD (liquid crystal display). All models feature a low-profile slim bezel design that provides a small footprint on your enclosure. These panels are available in either NEMA 4, 4X, FDA compliant or NEMA 4, 4X housing. See note below.



NOTE: EZSeries CE Touchpanels have built-in Ethernet yet are still available with additional Universal Ethernet option if the application needs multiple processors

EZSeries Touchpanel Features

- 10.4” diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- MODBUS TCP/IP card optional (EZP-ETHERPLUS)
- 400 nits brightness
- 50,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 4, 4X
- 1/4” O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.38” (60.53mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming Software

See the different communication interface options available in the chart to the right

EZSeries CE Touchpanel Features

- 10.4” diagonal color TFT LCD
- Low-profile slim bezel design
- 18 bit colors
- 640x480 pixel resolution
- 400 nits brightness
- 50,000 hour expected bulb half-life
- Analog resistive touch screen
- Alchemy 333 MHz Processor
- 32MB Flash, 64MB RAM and 2 MB for HMI
- 1/4” O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.86” installed depth
- Has all EZSeries Touchpanel
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software

EZSeries CE Touchpanel

Part Number	Description	Price	Del.
EZC-T10C-E	10” Color TFT, Enhanced CE 4.2 PP, Nema 4,4x	$1,499	3DAY
EZC-T10C-ED	10” Color TFT, Enhanced CE 4.2 PP, DeviceNet, Nema 4,4x	$2,899	3DAY
EZC-T10C-EH	10” Color TFT, Enhanced CE 4.2 PP, DH+, Nema 4,4x	$2,499	3DAY
EZC-T10C-EM	10” Color TFT, Enhanced CE 4.2 PP, MB+, Nema 4,4x	$2,499	3DAY
EZC-T10C-EP	10” Color TFT, Enhanced CE 4.2 PP, Profibus, Nema 4,4x	$2,899	3DAY
EZC-T10C-EC	10” Color TFT, Enhanced CE 4.2 PP, CCLink, Nema 4,4x	$2,499	3DAY
EZC-T10C-EU	10” Color TFT, Enhanced CE 4.2 PP, Universal Ethernet, Nema 4,4x	$2,398	3DAY

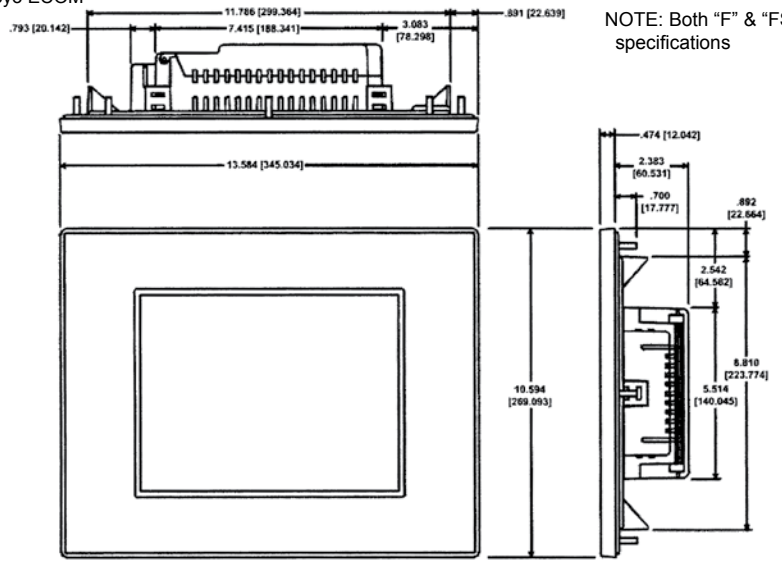
Enhanced CE Touchpanels with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE
- Built-in Ethernet protocols, Ethernet IP, EZ IP, SRTP, Modbus TCP/IP and Koyo ECOM

EZSeries Dedicated OS

Model Number	Interface	Price	Del.
EZ-T10C-FS ***EZ-T10C-F***	All serial drivers and accepts optional Ethernet and network cards	$1,499	STK
EZ-T10C-FSD ***EZ-T10C-FD***	DeviceNet	$2,199	3DAY
EZ-T10C-FSE ***EZ-T10C-FE***	AB Ethernet I/P	$2,199	3DAY
EZ-T10C-FSH ***EZ-T10C-FH***	DH+, Remote I/O	$2,199	3DAY
EZ-T10C-FSM ***EZ-T10C-FM***	Modicon MB+	$2,199	3DAY
EZ-T10C-FSP ***EZ-T10C-FP***	Profibus	$2,199	3DAY
EZ-T10C-FST ***EZ-T10C-FT***	MODBUS TCP/IP	$2,199	3DAY
EZ-T10C-FSC ***EZ-T10C-FC***	CCLink	$2,199	3DAY
EZ-T10C-FSU ***EZ-T10C-FU***	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	$1,998	3DAY
EZ-T10C-RMC	RMC card Installed	$1649	3DAY

NOTE: Both “F” & “FS” models have same specifications

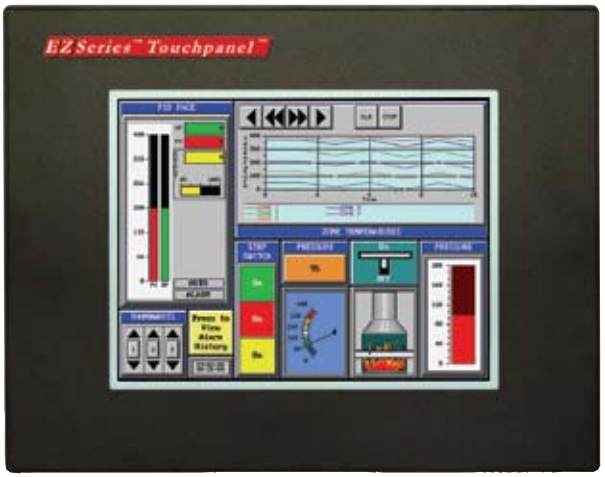


EZSeries 15" TFT Color Panels

15" Color EZSeries (15.0" TFT)

The 15" color EZSeries panels have a 15.0" diagonal touch screen, with a 640x480 pixel resolution and feature a TFT LCD (liquid crystal display).

NOTE: EZSeries CE Touchpanels have built-in Ethernet yet are still available with additional Universal Ethernet option if the application needs multiple processors



EZSeries Touchpanel Features

- 15.0" diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 4, 4X
- 640x480 pixel resolution
- 1MB RAM expandable to 1.5MB or 2MB
- 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- MODBUS TCP/IP card optional (EZP-ETHERPLUS)
- 250 nits brightness
- 55,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4" gasket and four DIN mounting clips for NEMA 4, 4X
- 4.29" (108.9mm) installed depth
- Has all EZSeries objects
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming Software

See the different communication interface options available in the chart to the right

EZSeries CE Touchpanel

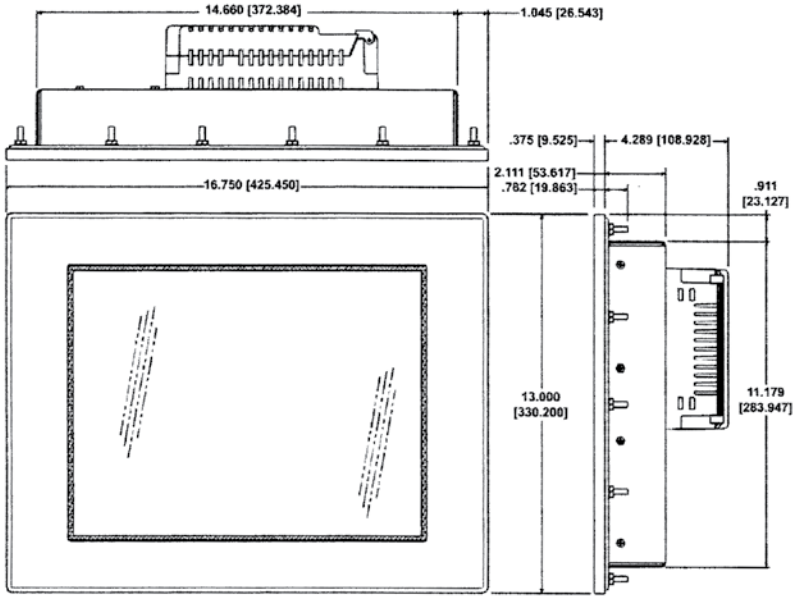
Part Number	Description	Price	Del.
EZC-T15C-E	15" Color TFT, Enhanced CE 4.2 PP, Nema 4,4x	$2,199	3DAY
EZC-T15C-ED	15" Color TFT, Enhanced CE 4.2 PP, DeviceNet, Nema 4,4x	$3,699	3DAY
EZC-T15C-EH	15" Color TFT, Enhanced CE 4.2 PP, DH+, Nema 4,4x	$3,299	3DAY
EZC-T15C-EM	15" Color TFT, Enhanced CE 4.2 PP, MB+, Nema 4,4x	$3,299	3DAY
EZC-T15C-EP	15" Color TFT, Enhanced CE 4.2 PP, Profibus, Nema 4,4x	$3,699	3DAY
EZC-T15C-EC	15" Color TFT, Enhanced CE 4.2 PP, CCLink, Nema 4,4x	$3,299	3DAY
EZC-T15C-EU	15" Color TFT, Enhanced CE 4.2 PP, Universal Ethernet, Nema 4,4x	$3,198	3DAY

Enhanced CE Touchpanels with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE
- Built-in Ethernet protocols, Ethernet IP, EZ IP, SRTP, Modbus TCP/IP and Koyo ECOM

EZSeries Dedicated OS

Model Number	Interface	Price	Del.
EZ-T15C-FS	All serial drivers and accepts optional Ethernet and network cards	$2,199	STK
EZ-T15C-FSD	DeviceNet	$2,299	3DAY
EZ-T15C-FSE	Ethernet/IP Allen Bradley	$2,999	3DAY
EZ-T15C-FSH	DH+, Remote I/O	$2,999	3DAY
EZ-T15C-FSM	Modicon MODBUS Plus	$2,999	3DAY
EZ-T15C-FSP	Profibus	$2,999	3DAY
EZ-T15C-FST	MODBUS TCP/IP	$2,999	3DAY
EZ-T15C-FSC	CCLink	$2,999	3DAY
EZ-T15C-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	$2,698	3DAY
EZ-T15C-RMC	RMC card Installed	$2349	3DAY



EZSeries CE Touchpanel Features

- 15.0" diagonal color TFT LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4,4x
- 1024x768 pixel resolution
- 250 nits brightness
- 55,000 hour expected bulb half-life
- Analog resistive touch screen
- Alchemy 333 MHz Processor
- 32MB Flash, 64MB RAM and 2 MB for HMI
- 1/4" gasket for NEMA 4,4x
- 4.68" installed depth
- Has all EZSeries Touchpanel
- Has all 4,000 Library symbols
- Programmed with EZSeries Programming software

EZ Series™

Textpanels



THE MOST SENSIBLE PLC TEXTPANEL

Innovate'n'Save™

EZSeries Textpanel - The Most SENSIBLE PLC Text Panels!

EZSeries Textpanel



NEW!



$269

Vacuum Flourescent Text Display

An Incredible Value Proposition

HALT CERTIFIED HASS

6 NEW DRIVERS AND GET THIS...

ENHANCED COSTS LESS!!



$169

EZ-220

NEW!



$269

EZ-220V

NEW!



$329

EZ-220PV



$189

EZ-420



$219

EZ-220L



$229

EZ-SP



$229

EZ-220P

EZSeries Textpanel with DH485

Ideal Replacement for Obsolete A-B Dataliners





EZSeries Textpanel now with DH485 driver is an ideal replacement for those feature limited and hard to find obsolete Dataliners from Allen Bradley. Not only these Textpanels are a functional replacements for these old Dataliners, their cost is less than 10% of the cost of original Dataliners.

EZSeries Textpanels are the most sensible PLC Text panels , that support a vast number of serial drivers such as Aromat, Idec, CTC, Omron, Allen-Bradley, GE, Mitsubishi, Modicon, Siemens, Yaskawa, Parker-Hannifan, Baldor, AutomationDirect and EZPLC.

EZText with LCD $169

EZText with VFD $269

Communication Drivers Supported

- Aromat Mewtocol COM
- Allen-Bradley DF1 (PLC-5, SLC 5/03/04/05, MicroLogix 1000,1200 and 1500)
- Allen-Bradley DH485
- Baldor
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZAutomation EZPLC
- Idec Computer Link
- Modicon MODBUS RTU
- GE Fanuc SNPX (90/30, 90/70)
- All Mitsubishi FX Series (direct, multidrop)
- Parker-Hannifan
- Omron Host Link (C200 and C500)
- Siemens S7 MPI Adapter series PLCs (S7 300/400)
- DirectLOGIC PLCs
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104 (Transparent Byte Protocol or Non-Intelligent Terminal Protocol)
- Yaskawa



EZ Replacement for Obsolete DATALINERS

EZSeries™ SENSIBLE PLC Textpanels



Serial drivers for:

- ***Allen-Bradley***
- ***Aromat***
- ***AutomationDirect***
- ***CTC***
- ***EZAutomation***
- ***GE***
- ***Idec***
- ***Mitsubishi***
- ***Modicon***
- ***Omron***
- ***Siemens***

(See detailed list below)

Long Lasting Keypad

These durable keypads can **handle a lifetime of scrolling through your messages and entering data**

NEW! Vacuum Fluorescent Display at 1/4th the Price of AB Data Liners

The EZText Panel has been enhanced to incorporate a vacuum fluorescent display that has greater visibility as well as a wider viewing angle. At $269 for EZ-220V and $329 for EZ-220PV, these Text Panels cost almost 1/4th of the price of AB Data Liners and offer an excellent value proposition.

Pushbuttons and LEDs

Customizable pushbuttons **to meet your specific needs**

Tri-color configurable Annunciator LEDs

Assign custom messages and allow the ultra bright LED display its condition with color.

PLC Message Light

A quick reference ensuring the message you are viewing came from the PLC

EZText OEM Update Utility

Download new or updated projects to the EZ-MULTIDROP (the communication master unit) or to individual panels, without the EZText programming software... for ***FREE!***

HALT CERTIFIED HASS

Key Features

- Same cutout dimensions as OP-1000 and OP-600 series Optimate panels
- PLC message indicator LED tells the operator that the PLC triggered a message
- Has up to 256 messages that can have up to three embedded variables, displayed on your choice of LCD or VFD displays
- EZ to use $28 programming software ***(FREE to existing EZText customers)*** with similar menu and file structures as Windows applications
- Heavy duty mounting gasket
- Cost-effective Communication cables: Programming cable $16.00 PLC to EZText cables $20.00
- 24VDC power supply

Communications Drivers Supported

- Aromat Mewtocol COM
- Allen-Bradley DF1 (PLC-5, SLC 5/03/04/05, MicroLogix 1000, 1200 and 1500)
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZAutomation EZPLC
- Idec Computer Link
- Modicon MODBUS RTU
- GE Fanuc SNPX (90/30, 90/70)
- All Mitsubishi FX Series (direct, multidrop)
- Omron Host Link (C200 and C500)
- Siemens S7 MPI Adapter series PLCs (S7 300/400)
- DirectLOGIC PLCs
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104 (Transparent Byte Protocol or Non-Intelligent Terminal Protocol)

EZSeries™ Seven Textpanel Models

2 New Enhanced Models

EZ-220V
2x20 VFD Display
Five user-defined pushbuttons and LEDs, Scroll data entry buttons, Built-in menu system, EMI filtered power supply reduces noise and communication problems. (Detailed info on pg. 4-13)

NEW!



$269

EZ-220PV
2x20 VFD **Display with** Keypad
Five user-defined pushbuttons and LEDs, Scroll data entry buttons, Three tri-color LED annunciators, Built-in menu system, EMI filtered power supply reduces noise and communication problems. (Detailed info on pg. 4-14)

NEW!



$329

5 Models that you'll *SAVE you MONEY*

EZ-220
2x20 LCD Display
Five user-defined pushbuttons and LEDs, Scroll data entry buttons, Built-in menu system, EMI filtered power supply reduces noise and communication problems. (Detailed info on pg. 4-13)



$169

EZ-420
4x20 LCD Display
Five user-defined pushbuttons and LEDs, Scroll data entry buttons, Built-in menu system, EMI filtered power supply reduces noise and communication problems. (Detailed info on pg. 4-13)



$189

EZ-220P
2x20 LCD Display **with** Keypad
Five user-defined pushbuttons and LEDs, Numeric keypad, Scroll data entry buttons, Three tri-color LED annunciators, Built-in menu system, EMI filtered power supply reduces noise and communication problems. (Detailed info on pg. 4-14)



$229

EZ-220L
2x20 Large LCD Display
Five user-defined pushbuttons and LEDs, Scroll data entry buttons, Built-in menu system, EMI filtered power supply reduces noise and communication problems. (Detailed info on pg. 4-13)



$219

EZ-SP
1x16 LCD Display **with 8-digit** Numerical Display
Up to 256 setpoints or displays with text messages, Scroll keys to change values, "Enter" key to transmit value to the PLC, EMI filtered power supply reduces noise and communication problems. (Detailed info on pg. 4-15)



$229

EZ-MULTIDROP
Communication Master Unit
Communicate to a single PLC with up to 5 EZText panels at 38.4k baud, optimizes your data requests from panels, Supports non-contiguous PLC registers (Detailed info on pg. 4-16)



$279

Configuring a Text Panel Has Never Been EZier

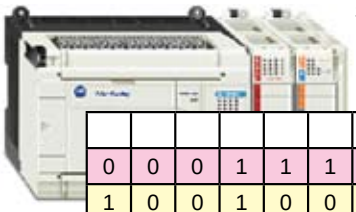
We incorporated features that give you the most flexibility with the least effort



With EZSeries Textpanel, we've eliminated the hassle of programming extensive ladder logic. You shouldn't have to write pages and pages of logic to transfer operator-entered variables from your panel to the PLC. Basically, our software has made designating PLC memory locations for controlling panel LEDs, accepting pushbutton requests, triggering messages, accepting setpoint data and displaying status data EZier than ever!

Programming EZSeries Textpanel is EZ as 1-2-3!

EZSeries Textpanel can be programmed in just three easy steps! All you need to know are the word registers you are going to use from your PLC with our panel. Let's take an example of EZ-220P panel which has user-programmable Push Buttons along with corresponding LED indicators, user-programmable Tri-Color annunciators, and a user-programmable database of 256 messages. In order to program all of these variables first we need to identify four word registers in a PLC which will be used to program EZSeries Textpanel. Let's take AB MicroLogix PLC with word addresses N7:1 thru N7:4 for simplicity. The PLC registers can be chosen as per your program specifications and do not need to be in any particular sequence or order.



Select four registers in your PLC to communicate to EZSeries Textpanel

								N7:0
0	0	0	1	1	1	1	0	N7:1
1	0	0	1	0	0	0	0	N7:2
0	0	0	1	1	1	1	0	N7:3
0	0	0	0	0	1	0	0	N7:4
1	0	0	0	0	0	0	0	N7:5
7	6	5	4	3	2	1	0	BITS

1 Configuring Pushbuttons and Leds



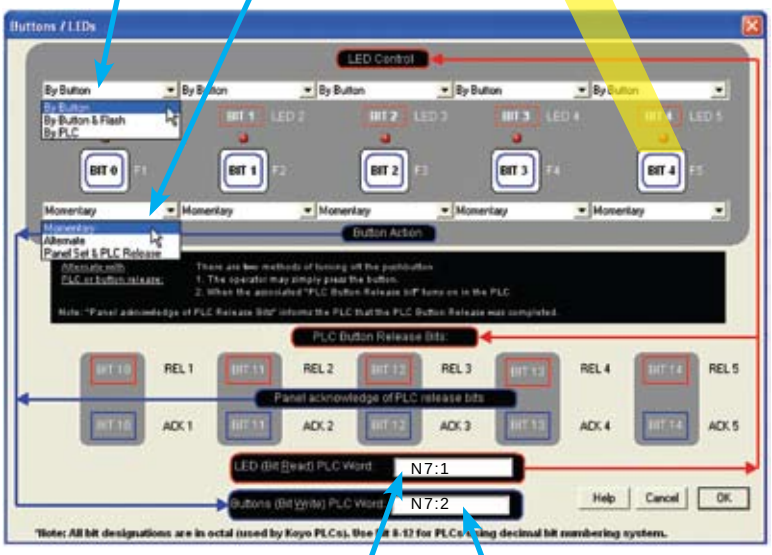
Bits 0 1 2 3 4

The first Register in this case N7:1 will be used for storing LED status and the 2nd Register N7:2 will be used to input pushbutton status. The configuration screen contains all of the information needed to configure the pushbuttons and their associated LEDs. You can configure the pushbuttons in three different ways: alternate, momentary, or alternate with PLC release option. The associated LEDs, which can also operate totally independent of the pushbutton action, can be triggered three ways: by the associated pushbutton, by the PLC, or they can be made to flash by the pushbuttons. This screen also allows the user to enter the associated PLC address. Once the address assignment has been selected, all of the pushbutton and LED fields will be populated with the associated bit assignments.

WHAT YOU SEE IS WHAT YOU GET!

Configure LED trigger

Configure Pushbutton Action



Let's enter N7:1 as the PLC address for LED status and N7:2 as the PLC address for pushbutton status

LED status PLC Register

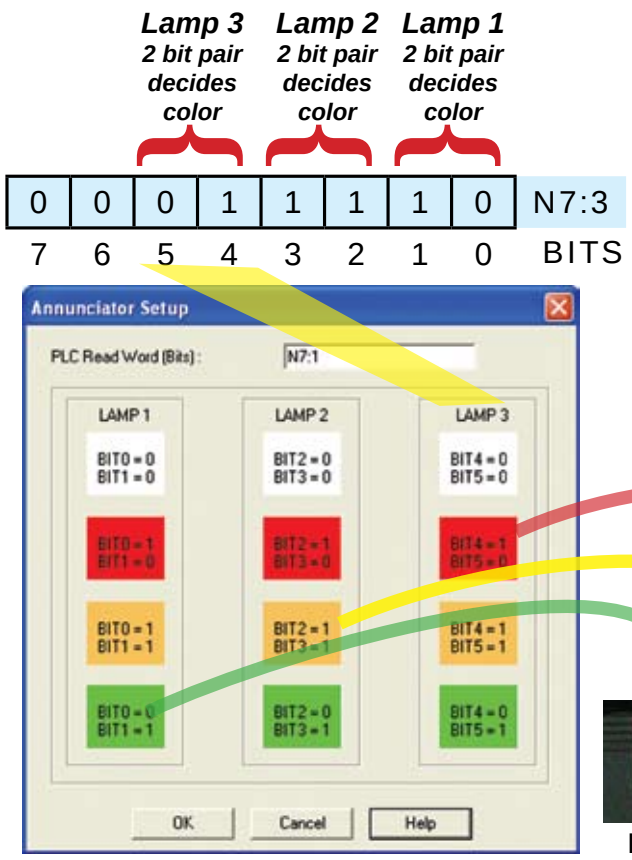
0	0	0	1	1	1	1	0	N7:1

User-defined LED status is directly mapped from bits in a single user-defined PLC memory word.

Pushbutton status PLC Register

1	0	0	1	0	0	0	0	N7:2

User-defined pushbutton keys are automatically written to bits in a single user-defined PLC memory word.



2 Configuring Annunciator Lamps

The annunciator lamps on the EZ-220P and EZ-220PV models are configured similar to pushbuttons. Once you have selected the starting address in the PLC, all of the lamp colors will be identified by the bit pairs. The color that the lamp illuminates depends on the bit assignment of the address selected.

For example, if bit 0 is OFF and bit 1 is ON, the first lamp is Green. If bit 2 is ON and bit 3 is ON, the lamp is Yellow. If bit 4 is ON and bit 5 is OFF, the third lamp will be RED. The color code chart on the left, which is shown in our programming software, indicates which color would be shown based on the bit values.

Colors are determined by **two user-defined** bits in the PLC **register (N7:3)**

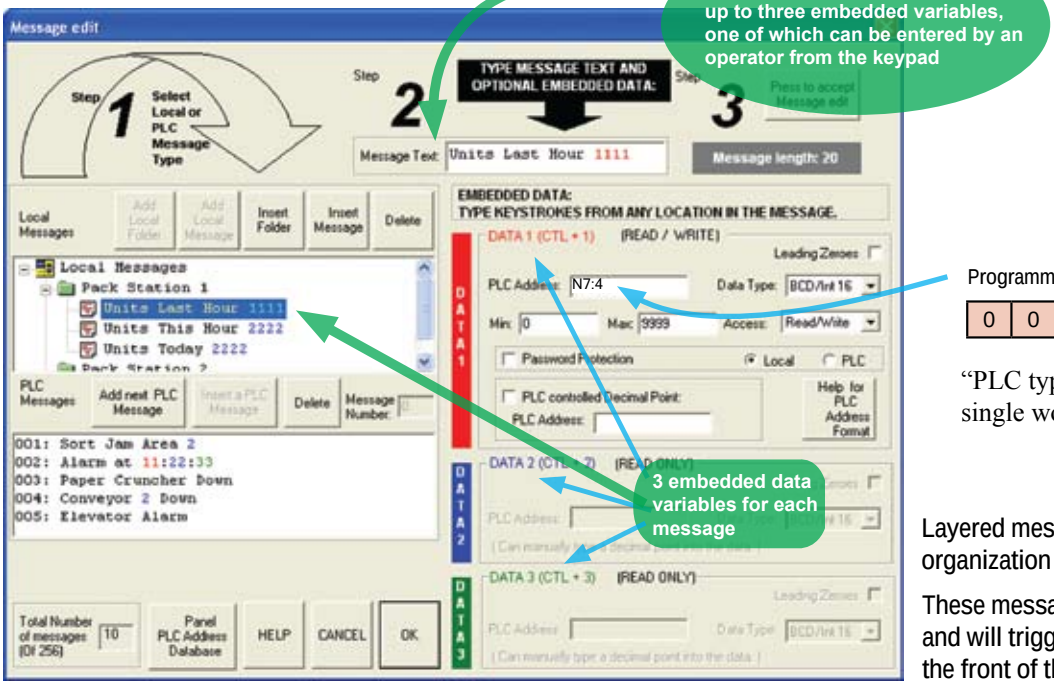
Each annunciator lamp can display all 3 colors

3 User Programmable Messages

There are two message types which can be displayed: local and PLC. Local messages are displayed on the screen unless the PLC triggers a PLC message, which overrides a local message.. When a PLC message is triggered, the PLC Message LED will also be illuminated. The PLC message LED will remain on until the user acknowledges the situation by pressing [esc] on the panel.



Stores Up To
256 Messages
Triggered by the PLC or Locally







Programmable Message PLC Register

0	0	0	0	0	1	0	0	N7:4

"PLC type" messages are controlled by a single word memory location of a PLC

Layered messages provide more organization and detail.

These messages are triggered by the PLC and will trigger the PLC Message LED on the front of the EZText panels.

Configuring a Text Panel Has Never Been EZier

PLC Message Types

PLC Messages

"PLC type" messages are controlled by a single word memory location of a PLC. These messages have the highest priority and they overwrite any local messages that might exist on a text panel at any given time. When these messages are entered in EZText software, they are assigned a specific number by which they are referenced and archived. When the word memory location dedicated for PLC Type messages points to a specific message number, the message corresponding to that number is displayed on the panel.

The activation of a PLC Message will cause the PLC message LED to illuminate. The LED is an indication to the operator that the message being displayed was triggered by the PLC. When a PLC Message is displayed, the operator may press the ESC key on the panel keypad to switch back to the Local Messages. The ESC key may be pressed an additional time to view the most recently displayed PLC Message.





Local Messages

Local Messages are created within a Folder/Subfolder type hierarchy. Messages can contain up to three embedded variables, which will reference memory locations inside the PLC. During normal operation, the operator is free to view Local Messages in various folders using the arrow keys located on the panel keypad. The keypad can also be used to enter new values into embedded variables located inside a message.

No PLC logic is required for the panel to scroll through Local Messages or Folders.

Customize Your Pushbuttons and Annunciators

Every EZSeries Textpanel Panel is shipped with printable label sheets along with Microsoft Word template for customizing Pushbuttons and Annunciator lights. Installing EZTouch Enhanced software will give you access to "EZText_Enhanced_Inserts.DOC" in EZSeries Textpanel Panel directory. Use this word document to print your desired labels for push buttons and annunciator lights on the label sheets provided. Cut the label sheet to the right size using the trim marks provided and follow the instructions below to customize your labels.



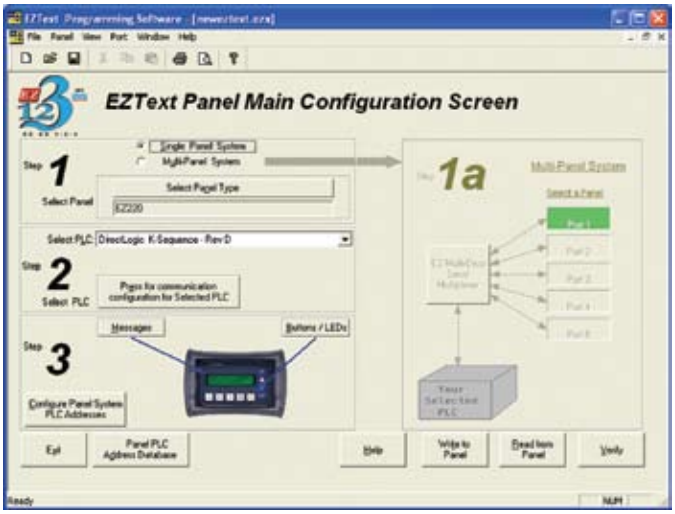
Configuration Software

The EZSeries Textpanel programming software (EZ-TEXTEDIT) is a Windows-based program. The EZ-to-use screens and pull-down menus provide all tools you will need to select the panel type, configure the PLC communications, create text messages, etc. The EZText panels use simple addressing and bit asignments. Competitor text panels require extensive programming and associated ladder logic to make the pushbuttons and LEDs operable.

Select panel type from the selection screen →

Configure PLC communications →

Configure messages, pushbuttons, LEDs, etc. →

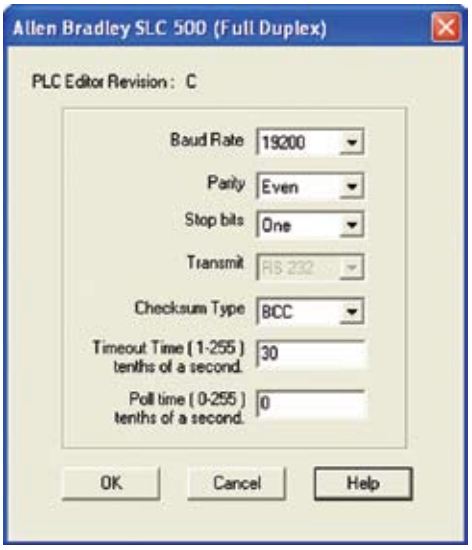


EZSeries™ Textpanel Programming Software

Programming Software
ONLY $28

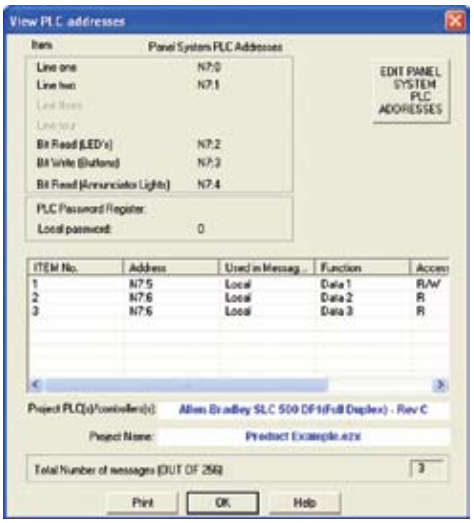
Communicating to your PLC is EZ

After you have selected your PLC type, you can enter communication parameters. To make the process even EZier, we have populated most of the fields with settings appropriate to the PLC you selected. Change any values if necessary and click OK.



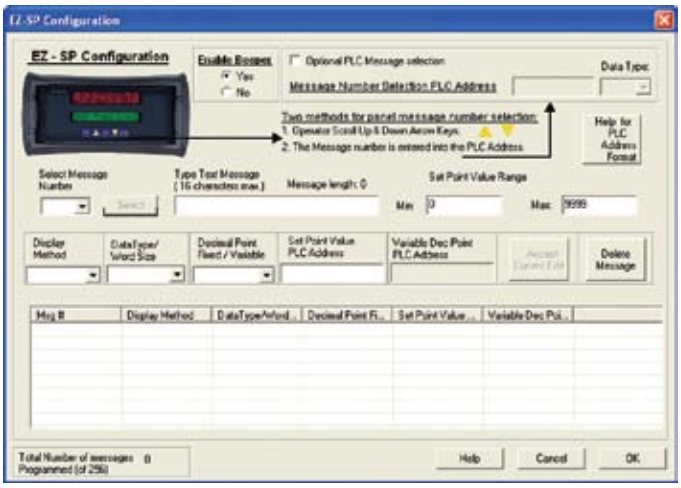
View PLC Tagnames

The configuration software provides a screen to view all of the programmed messages and tagnames that you have assigned to the panel. With 256 message capability, this screen can provide a great organizational tool to help you remember what addresses you have used, what names or messages you have programmed, and any other items that you have programmed.



EZ-SP Configuration

The EZ-SP (setpoint display) panel has a unique setup screen for data and message display. Most other setpoint display panels have a physical label to identify the data displayed. The. EZ-SP attaches the associated text with the numeric data and displays it on the 1x16 LCD display and a bright 8 digit LED display. The setup screen will contain such items as single/double word, decimal point information, associated text message, read/write information, PLC information, and data entry parameters. The pushbuttons on the front of the panel will scroll through the data items and when selected, permit data vairables to be changed.



EZSeries Textpanel Feature Comparisons to C-More Micro





Features	EZAutomation EZSeries Textpanel	Automation Direct C-More micro
Number of Models	7 Models	2 (with Touch & without Touch) Models
Communication Drivers	Aromat Mewtocol COM, EZPLC, Allen-Bradley DF1 (PLC-5, SLC 5/03/04/05, MicroLogix 1000, 1200 and 1500), Allen-Bradley DH485, Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary), Idec Computer Link, Modicon MODBUS RTU, Yaskawa, Parker-Hannifan, Baldor, GE Fanuc SNPX (90/30, 90/70), All Mitsubishi FX Series (direct, multidrop), Omron Host Link (C200 and C500), Siemens S7 MPI Adapter series PLCs (S7 300/400), DirectLOGIC PLCs, Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104 (Transparent Byte Protocol or Non-Intelligent Terminal Protocol)	Direct Logic K-Sequence, Direct Logic DirectNet, Direct Logic Modbus, Modbus RTU
Multiple Panel Communication Capability	YES, through EZ Multidrop	NO
Multi-color Anunciator LED lamps	3 on EZ-220P & EZ-220PV models, visible to 100 ft.	No, only background color for entire screen can change
No. of Messages / Screens	256 Messages with 3 embedded variable in each message	Limited by Memory
PLC Message LED indicator	YES	NO
Configuration Set-up	Very EZ	You Judge!
LCD Touch Screen Option	Not Available	Yes for $50 adder
Standard Display	2 Line 20 Character LCD, 25% bigger than single line of C-more micro text characters , visible to 3 ft.	128x64 pixel LCD with some graphics, visible to 3 ft.
Standard Display Viewing Angle	Viewing angle 45 degrees, better than C-more Micro. See video for side by side comparison.	narrow viewing angle of appx. 30 degrees, you have to be right on top of display
Display options	High bright, high class blue fluorescent dispaly: readable to 10 ft., readable outdoors, great viewing angle of 60 degrees, for $100 adder	Not Available
Depth of the Panel	1.157" without removable power connector	2.297" including power adaptor
Numeric Keypad	Available in EZ-220PV & EZ-220P	Optional
Function Keys	5 Programmable function keys	5
Built-in Power Supply	YES	No (External Module, Not required for DirectLogic PLCs)
Ratings	NEMA 4, 4X	NEMA 4, 4X
Agency Approvals	UL, cUL, CE	UL, cUL, CE
Programming Software	$28	$25 for CD, free from website
Programming Cable	$20	$35
Price	$229 (EZ220P, 2 Line 20 Char. LCD, Numeric Keypad, 3 Tri-color LED Annunciators)	$267 (EA1-S3ML-N - $139, EA-MG-BZ2 - $79, EA-MG-SP1 - $49)

EZSeries™ Textpanels Selection Guide

EZText Panel Specifications							
Part Number	**EZ-220**	**EZ-220L**	**EZ-420**	**EZ-220P**	**EZ-SP**	**EZ-220V**	**EZ-220PV**
							
Price	$169	$219	$189	$229	$229	$269	$329
Description	2x20 LCD display, five user defined pushbuttons, five LEDs	2x20 LCD display, large characters, five user defined pushbuttons, five LEDs	4x20 LCD display, five user defined pushbuttons, five LEDs	2x20 LCD display, numeric keypad, five user defined pushbuttons, three tri-color LED annunciators	1x16 LCD display, 8 digit LED display, five control push-buttons	2x20 VFD display, five user defined pushbuttons, five LEDs	2x20 VFD display, numeric keypad, five user defined pushbuttons, three tri-color LED annunciators
Display Type	Character LCD, 2 lines by 20 characters w/LED backlight		Character LCD, 4 lines by 20 characters w/LED backlight	Character LCD, 2 lines by 20 characters w/LED backlight	Character LCD, 1 line by 16 characters w/8 digit .52" LED numeric display	Character VFD (Vacuum Fluorescent Display), 2 lines by 20 characters w/LED backlight	
Character Height	5.55mm (0.22")	8.06mm (0.316")	4.75mm (0.187")	5.55mm (0.22")	8.06mm (0.316")	5.55mm (0.22")	
Viewing Angle	±15 degrees horizontal					±60 degrees horizontal	
Keypad Overlay	Five user-defined pushbuttons and four control pushbuttons			Numeric keypad, five user defined pushbuttons and four control pushbuttons	Four control push-buttons	Five user-defined pushbuttons and four control pushbuttons	Numeric keypad, five user defined pushbuttons and four control push-buttons
CPU Type	8-bit						
Service Power	24VDC (20-30VDC operating range)						
Power Consumption	4 Watts @ 24VDC	4.5 Watts @ 24VDC	4 Watts @ 24VDC	5.5 Watts @ 24VDC	6.5 Watts @ 24VDC	6 Watts @ 24VDC	8.5 Watts @ 24VDC
Enclosure	NEMA 4, 4x (indoor)						
Agency Approval	UL, cUL, CE						
Operating Temperature	0° to 45°C (32° to 113°F)						
Storage Temperature	-20° to 60°C (-4° to 140°F)						
Humidity	10-95% RH, (non-condensing)						
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test						
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)						
Vibration	5 - 55Hz 2G for 2 hours in the X, Y, and Z axis						
Shock	10G for under 12 ms in the X, Y, and Z axis						
Burn-in	Temperature cycled 96 hours and then fully functional tested						
LED/LCD Life	100,000 hours						
Serial Communications	Download/Program/PCS Port TS-232/RS422/RS485 15-pin D-sub (female)						
Dimensions (in/mm)	7.418x5.00 (188.419x126.998)	10.018x5.00 (254.458x126.998)	7.418x5.00 (188.419x126.998)	10.018x5.00 (254.458x126.998)	10.018x5.00 (254.458x126.998)	7.418x5.00	10.018x5.00
Weight (lbs.)	.65	.85	.65	.85	.85	.65	.85

EZSeries™ Textpanel™ Overview

Introduction

We are committed to provide HMI solutions for all budgets, and for all applications in Process Automation projects. EZSeries Textpanel Panels make the best operator interface alternative in the PLC system, if the project budget does not allow a fancier Touch Screen type HMI. For low cost applications requiring pushbuttons, or LEDs, we have a wide range of different Text panels to choose from. These simple and low-cost panels come with EZ-to-use Windows based software so that they are the simplest to program and quickest to install.

Key Features

All EZSeries Textpanel panels come standard with features such as:

- LCD display or VFD display
- Pushbuttons
- LEDs
- Embedded PLC data variables
- Built-in menu system
- EMI filtered power supply

Choice of LCD or VFD Display

The LCD or VFD display on EZSeries Textpanel Panels can have one, two or four lines of text message displaying 20 characters each. (16 characters for model EZ-SP) The messages can be programmed as static, dynamic or even interactive, which are controlled in the PLC program. The panel comes with Windows based software to program the messages.

Pushbuttons



These pushbuttons, which trigger PLC actions, can be configured to function as one of the three following switch types :

Alternate switch – keeps the current state until the button is pressed a second time.



Set with release switch – Like the alternate switch, only the PLC can also control the release.

Momentary switch – activated only while the operator is pushing the button.

EZ Start-up

This is all you will need to get started:

- EZSeries Textpanel Panel
- EZText Programming software
- 24 VDC Power supply
- Computer
- Programming cable
- PLC
- Appropriate communication cable for PLC

PLC Compatibility

The EXText Enhanced panels can be used with most of the popular PLCs available in the market such as AB, GE, Siemens, Mitsubishi, Omron etc. The chart below can be used to check compatibility of a particular PLC with the EZSeries Textpanel panel.

PLC Compatibility Table

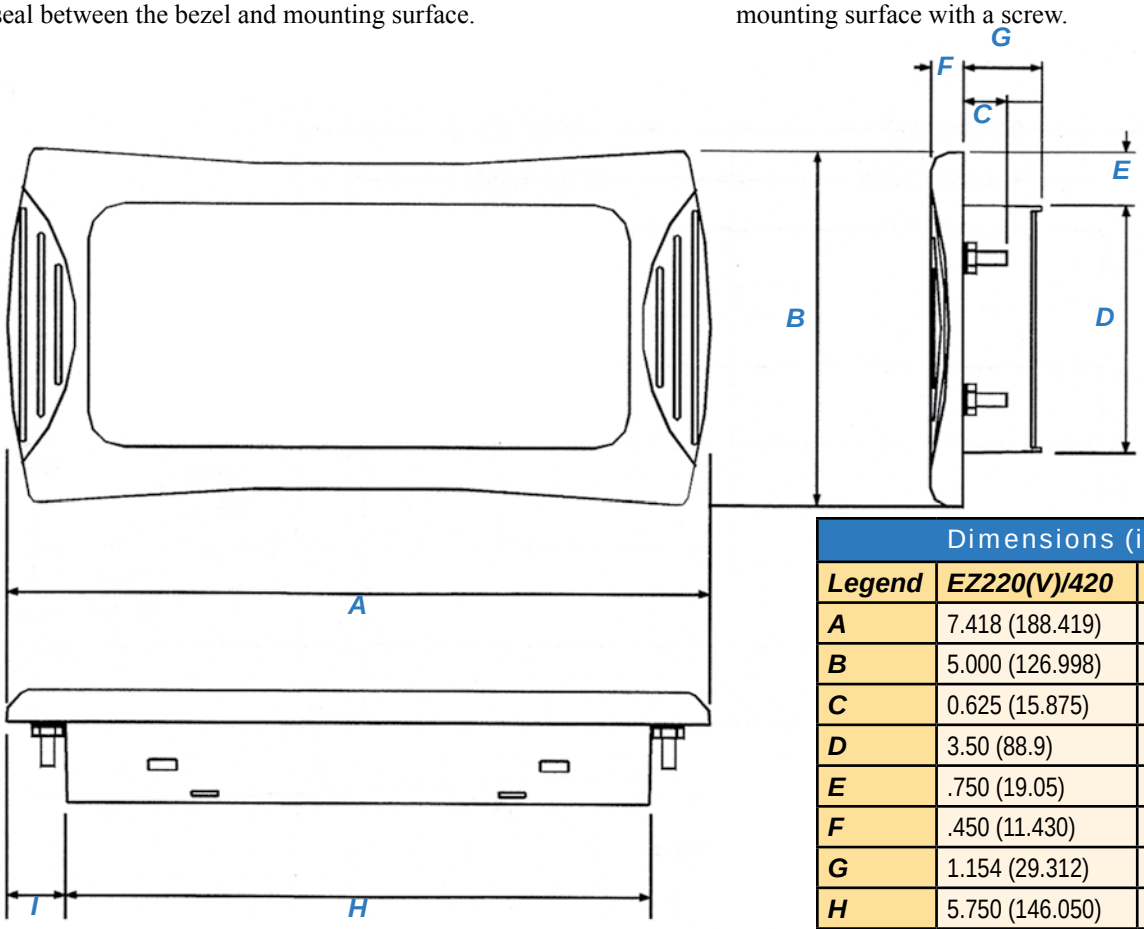
PLC	Model		Protocols
Allen-Bradley	MicroLogix 1000, 1200 and 1500, SLC 5/03, /04, /05, PLC5		DF 1 Half Duplex; DF1 Full Duplex
	PLC5		DF 1
Aromat	Aromat		Mewtocol COM
Control Technology Corporation (CTC)	CTC 2600, 2700 and 5100		CTC Binary
EZAutomation	EZPLC		EZ Protocol
General Electric	90/30, 90/70		SNPX
Idec	Idec		Computer Link
Mitsubishi	FX Series (all)		Direct
Modicon	984 CPU, Quantum 113 CPU, AEG Modicon Micro Series 110 CPU: 311-xx, 411-xx, 512-xx, 612-xx		Modbus RTU
	984 Series, Quantum Series		
Omron	C200, C500, CQM1, CPM1		Host Link
Siemens	S7 300/400 PLCs, MPI Adapter		3964R protocol
DirectLOGIC	DL05 DL06		K-Squence
			DirectNet
			MODBUS (Koyo addressing)
	DL105		K-Sequence
	DL205	D2-230	K-Sequence
		D2-240	K-Sequence, DirectNet
		D2-250-1 D2-260	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		D2-240/250/260 DCM	DirectNet
	DL305	D3-330/330P*	DirectNet
		D3-340	DirectNet
		D3-350	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		D3-350 DCM	DirectNet
	DL405	D4-430	K-Sequence, DirectNet
		D4-440	K-Sequence, DirectNet
		D4-450	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		All with DCM	DirectNet
	H2-WinPLC		MODBUS RTU (serial port)
	H2/H4 EBC (Think-N-Do Studio Version 6.5 or later required)		K-Sequence (serial port)
Texas Instruments	TI5X5 Series - TI505, TI 545-1102, TI545-1104		TBP (Transparent Byte Protocol) or NITP (Non-Intelligent Terminal Protocol)
Other	H2-WinPLC (Think-N-Do V5.2, check for version compatibility)		Modbus RTU (serial port)

** Requires Data Communications Unit*

EZSeries™ Textpanel™ Dimensions and Installation

All EZSeries Textpanel panel's backs are rectangular in shape. They are mounted and secured on the surface with screws and DIN clips. The four screws and the rubber gasket provide a seal between the bezel and mounting surface.

We also provide alternative mounting solutions for panels. We can provide you with optional DIN clips, which are metal brackets that attach to the panel and secure the front panel to a mounting surface with a screw.



Dimensions (inch, mm)		
Legend	**EZ220(V)/420**	**EZ220L/220P(V)/SP**
A	7.418 (188.419)	10.018 (254.458)
B	5.000 (126.998)	5.000 (126.998)
C	0.625 (15.875)	0.625 (15.875)
D	3.50 (88.9)	3.50 (88.9)
E	.750 (19.05)	.750 (19.05)
F	.450 (11.430)	.450 (11.430)
G	1.154 (29.312)	1.154 (29.312)
H	5.750 (146.050)	8.350 (212.090)
I	.834 (21.184)	.834 (21.184)

Mounting Accessories

Delivery Status: STK

Part Number	Description	Price
EZ-TEXT-S-GSK	Standard replacement gasket (small) for EZ-220 and EZ-240	$8.00
EZ-TEXT-L-GSK	Standard replacement gasket (large) for EZ220L, EZ220P and EZ-SP	$9.00
EZ-BRK-2	DIN clips (pk. of 4)	$34.00
EZ-TEXT-STUDS	Mounting studs (pk. of 4)	$8.00
EZ-COMCON3	15-pin male D-sub connector with terminal blocks, for connecting RS422 network cable from EZTouch or EZText panels	$19.00
EZ-COMCON4	9-pin female D-sub connector with terminal blocks	$19.00
EZ-TEXT-CORE	EZText replacement ferrite cores	$15.00
EZ-TEXT-PWRTERM	EZText replacement power terminal strip	$12.00
EZ-TEXT-M-E	Hardware Manual For All EZSeries Textpanel panels (EZ-220, EZ-420, EZ-220L, EZ-220P, EZ-220V, EZ-220V, and EZ-220PV) except EZText Setpoint Panels. Hardware and User Manuals Included with every EZSeries Textpanel Panels	$25.00
EZ-TEXT-SP-M-E	Hardware Manual for EZSeries Textpanel Setpoint panel (EZ-SP) Only. Hardware and User Manuals Included with every EZSeries Textpanel Panels	$15.00
EZ-TEXTEDIT-E	Windows based Programming software for all EZSeries Textpanel panels. Requires Windows 95/98/NT or 2000. Manual and CD-ROM included	$28.00
EZTEXT-PGMCBL	Programming cable for setup and programming for all EZSeries Textpanel panels. 2 m (6.56ft) RS232 cable with 15-pin D-shell male connector on one end and 9-pin D-shell female connector at the other end.	$16.00

EZ-220/220V/420/220L



EZ-220V



EZ-220

EZ-420

EZ-220L

Overview:

The EZ-220 (5.5mm character) and EZ-220L (8.06mm character) come with a two line 2x20 LCD display, pushbuttons with LEDs, and control pushbuttons. The EZ-420 (4.75mm character) comes with a four line LCD display, and the new EZ-220V comes with a bright two line Vacuum Fluorescent display with 5.5mm characters with a wider viewing angle of ± 60 degrees. Pushbuttons are used to control tasks or initiate an event in the PLC and in this way you can also monitor the bit condition in the ladder logic program. There are five function pushbuttons with LEDs and four control pushbuttons.

Front Panel Descriptions:

LCD or VFD display



There are two kinds of messages that can be viewed on the screen of these models: local and PLC. When the machine is running in the normal mode, the local messages are displayed. The messages are viewed in tree structure format. A message beginning with "+" indicates a folder and when you select it by pressing enter, all the associated messages can be viewed.

The PLC message is displayed whenever PLC triggers a message, the PLC message light will illuminate and the previous message on the display will be overwritten by the PLC message. The display will return back to the previous message after the PLC message is acknowledged.

There are three types of messages (Static, Dynamic or interactive) that may be configured in the EZSeries Textpanel and you can store up to 256 messages.

Control Pushbuttons



To scroll through the messages you have the convenience of four control pushbuttons. Not only can you view the message, but if the message has any embedded data that can be changed, the buttons can be used to adjust the values of this as well. The value will be updated in the PLC only after the enter button has been pressed. The ESC button will abort or cancel the changes without changing the PLC value.



User-Defined Pushbuttons

We provide you with five blank labeled, user defined pushbuttons. This provides you with the flexibility to custom label the pushbuttons and configure them as alternate, momentary, or alternate with PLC release.

Pushbuttons with LEDs



Above each pushbutton there is an associated LED. These buttons can be programmed to show various states or they can be programmed to be controlled by discrete bits in the PLC program. When push buttons are pressed, the three different control types (alternate, momentary, or alternate with PLC release) will determine the LED response. You can also program the LED to flash.

PLC Message Indicator



All EZSeries Textpanel panels have an LED labeled "PLC Message" at the top left of the interface. This LED indicates that the message you are viewing has been triggered by the PLC. When the message has been read, press "esc" and the LED will turn off.

Part Number	Description	Price	Del.
EZ-220V	2x20 VFD display, 5 pushbuttons, 5 LEDs (all user defined), 4 control pushbuttons	$269	STK
EZ-220	2x20 LCD display, 5 pushbuttons, 5 LEDs (all user defined), 4 control pushbuttons	$169	STK
EZ-420	4x20 LCD display, 5 pushbuttons, 5 LEDs (all user defined), 4 control pushbuttons	$189	STK
EZ-220L	2x20 LCD display (large Characters), 5 pushbuttons, 5 LEDs (all user defined), 4 control pushbuttons	$219	STK

Manual sold separately, EZ-TEXT-M, for $15.00.

EZ-220PV/220P



Overview:

The EZ-220P and EZ-220PV come with a two line LCD or Vacuum Fluorescent display, a numeric keypad, control pushbuttons, pushbuttons with LEDs, and three LED annunciators. The displays contain two lines by 20, 5.5mm characters (2x20). The new EZ-220V comes with a bright two line Vacuum Fluorescent display with 5.5mm characters with a wider viewing angle of ± 60 degrees. Push buttons are used to control task or initiate an event in the PLC and in this way you can also monitor the bit condition in the ladder logic program. You can also define and program the five pushbuttons using the EZSeries Textpanel software. There also three annunciator lamps that can be used for various status of the machine or alarms.

Front Panel Descriptons:

LCD and VFD Display



There are two kinds of messages that can be viewed on these models: local and PLC. When the machine is running in the normal mode, the local messages are displayed. The messages are viewed in tree structure format. A message beginning with "+" indicates a folder and when you select it by pressing enter, all the associated messages can be viewed and the "- "appears at the beginning of message.

The PLC message is displayed whenever PLC triggers a message, The PLC message light will illuminate and the previous message on the display will be overwritten by the PLC message. The display will return back to the previous message after the PLC message is acknowledged.

There are three types of messages (Static, Dynamic or interactive) that may be configured in the EZSeries Textpanel and you can store up to 256 messages.

Annunciator



Annunciators are high intensity LEDs that will illuminate to show the state set in the PLC. The LED colors (red, green and amber) are based on the bits in the associated PLC address string. Just like user-defined pushbuttons, you have the flexibility to custom label your annunciators.

User-Defined Pushbuttons

We provide you with the blank labeled, user defined five pushbuttons. This provide you with the flexibility in customization so that you can custom label the pushbuttons and configure them as alternate, momentary, or alternate with PLC release.

Pushbuttons with LEDs



Above each pushbutton there is an associated LED. These buttons can be programmed to show various status or they can be programmed to be controlled by discrete bits in the PLC program. When push buttons are pressed, the three different control types (alternate, momentary, or alternate with PLC release) will determine the LED response. You can also make the LED to flash.

Numeric Keypad



EZSeries Textpanel's numeric keypad has 16 pushbuttons for scrolling data entry, or interactive messages. The numeric keypad can be used to update a value in the PLC. The value will be updated in the PLC only after the enter button has been pressed. The esc button will abort or cancel the changes without changing the PLC value.

Part Number	Description	Price	Del.
EZ-220PV	2x20 vacuum fluorescent display, three tri-color annunciator lamps, Numeric Keypad, 5 pushbutons, 5 LEDs (all user defined)	$329	STK
EZ-220P	2x20 LCD display, three tri-color annunciator lamps, Numeric Keypad, 5 pushbutons, 5 LEDs (all user defined)	$229	STK

Manual sold separately, EZ-TEXT-M, for $15.00.

EZ-SP



Overview:

The EZ-SP (Set Point) panel is a low cost but high performance driven interface for data display and operator control. The EZ-SP comes with super bright, seven segment numeric LEDs for viewing data and adjusting setpoints. The 1x16 LCD screen display can be used to display a message associated with the numerical display, and there are five control pushbuttons that can be used for message viewing and data input. Using EZSeries Textpanel software, you can configure up to 256 data fields to be displayed via the LCD or LED display.

Front Panel Descriptons:

LCD Display



The EZ-SP has one message line which can display up to 16 characters. Messages will be displayed based on the data displayed in the 8-position LED numerical display. You don't need to create a label to describe the data. All you have to do is use the software to program the message of the label to be displayed with the data. When configured, this display will show values from PLC registers.

Control Pushbuttons



An operator can cycle through messages using the arrow pushbuttons. If you need to adjust the numeric display value associated with one of the LCD display messages, press "sel". This will select that message, and highlight the number farthest right in the numeric display. Use the arrow pushbuttons to increment/decrement this number, then press "sel" to highlight the next digit. Once satisfied, press "enter" to update the value in the PLC. The "esc" key allows the operator to abort the changes made before sending the value to the PLC.

Numeric Display



The EZ-SP has an eight-position numeric display with seven segment, super bright intensity LEDs which makes them easy to view. When configured, this display will show values from PLC registers.

Part Number	Description	Price	Del.
EZ-SP	1x16 LCD display, 8-digit LED display, five control pushbuttons	$229	STK

Manual sold separately, EZ-TEXT-SP-M, for $15.00.

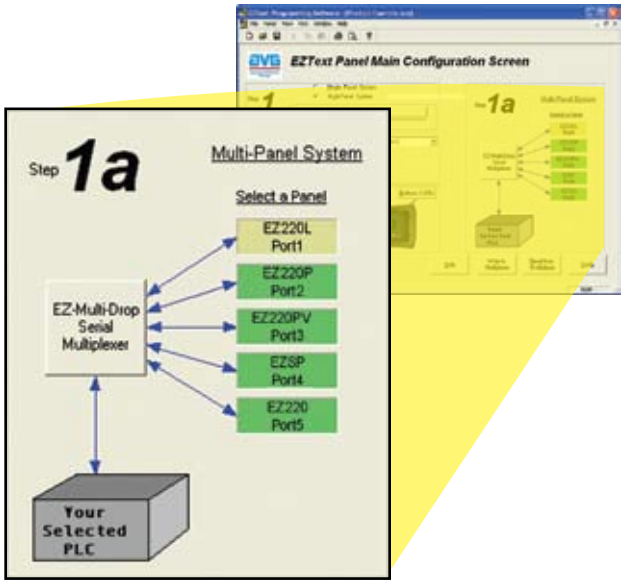
EZMultiplexer Connects Up to 5 Panels to a PLC

Communication Master Unit

EZMultiplexer is a docking station, where you may connect up to five of any combination of EZText Panels. When you select the multi-panel system in the programming software, you can configure panels to one port each (Port 1, Port 2, Port 3, and Port 4). Cables needed to connect are: EZ-COMCON3 and one EZ-COMCON4, Belden 9729 (or equal).

A write utility is included so you can download changes to one or more panels on the complete system without EZSeries Textpanel Software.





Multiple Panel Requirements:

Hardware

- 1 EZMultiplexer
- Up to five EZText panels
- Programmable Logic Controller (PLC)
- 24 Volt DC Power Supply

Software

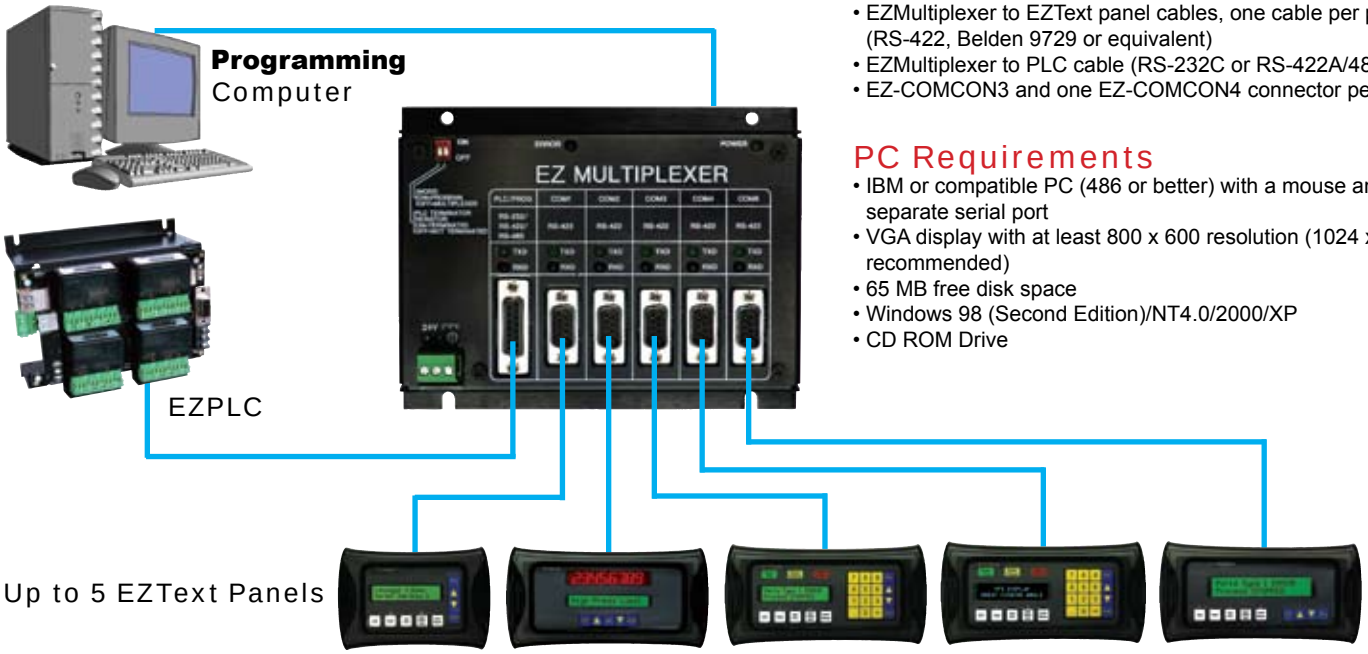
- EZSeries Textpanel programming software (EZ-TEXTEDIT, Version 2.0 or later)

Cables

- Programming Cable (P/N EZTEXT-PGMCBL)
- EZMultiplexer to EZText panel cables, one cable per panel (RS-422, Belden 9729 or equivalent)
- EZMultiplexer to PLC cable (RS-232C or RS-422A/485A)
- EZ-COMCON3 and one EZ-COMCON4 connector per panel

PC Requirements

- IBM or compatible PC (486 or better) with a mouse and separate serial port
- VGA display with at least 800 x 600 resolution (1024 x 768 recommended)
- 65 MB free disk space
- Windows 98 (Second Edition)/NT4.0/2000/XP
- CD ROM Drive



Part Number	Description	Price	Del.
EZ-MULTIDROP	Communication Master Unit; Supports up to 5 EZSeries Textpanel Panels	$279	STK
EZ-MULTIDROP-M	Hardware and Installation manual for EZ-Multiplexer. Included with every EZ-Multiplexer purchase.	$8	STK

The American Alternative .. *Innovate'n'Save™*

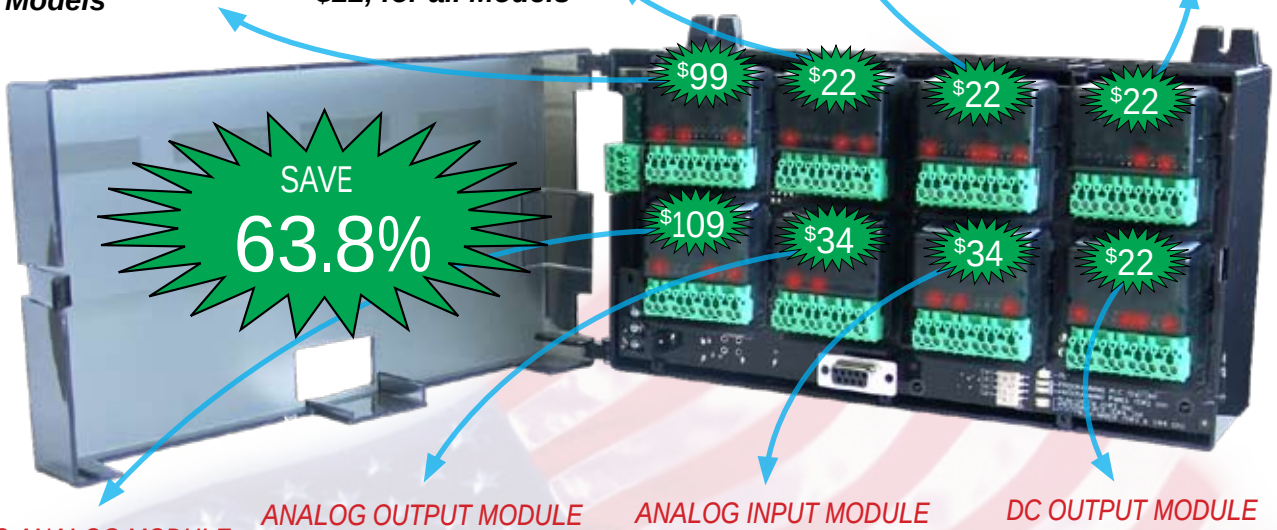
EZPLC™ DL205 Capability at the Price of DL06!

HIGH SPEED COUNTER
EZIO-HSM1 8 pt. I/O Modules starting at $99, for all Models

DC INPUT MODULE
EZIO-8DCI 8 pt. Analog I/O Modules starting at $22, for all Models

DC INPUT MODULE
EZIO-8DCI Plug-in Program Storage Module for $22, for all Models

DC OUTPUT MODULE
Plug-in Program Storage Module for $22, for all Models



COMBO ANALOG MODULE
8 pt. I/O Modules starting at $109, for all Models

ANALOG OUTPUT MODULE
8 pt. Analog I/O Modules starting at $34, for all Models

ANALOG INPUT MODULE
8 pt. Analog I/O Modules starting at $34, for all Models

DC OUTPUT MODULE
Plug-in Program Storage Module for $22, for all Models

Head to Head Comparison with DL205

Features	EZPLC	DL205
Total Memory	64 K words	D2-260: 30.4K
Total I/O	2048	D2-260: 16,384
I/O Status	Next to each digital I/O terminal point	NO
Integrated Comm. port	2	2
Modbus TCP/IP	YES	NO
Scan-time	3 ms Including Overhead	D2-260: 1.9 ms
Response time to Interrupt	60µsec screw-to-screw response from input to output	More than 2 ms

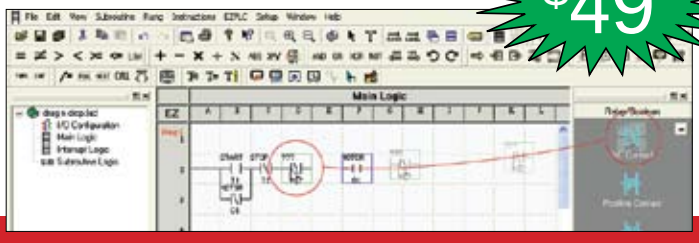
Features	EZPLC	DL205
# Interrupts	1 per 8 DC Inputs	1 per PLC
Auto-tuned PID	8, with exclusive PID Monitor in Excel	D2-260: 16
Short Circuit Proof	YES, ½ Amp each	NO
48 I/O System, 16 DI, 8 DO, 4 AI and 4 AO (Voltage) without Programming software	EZPLC-D-64E EZIO-4HSM1 2@EZIO-8DCI 2@EZIO-8DCOP EZIO-8ACI EZIO-8ACO EZIO-4ANI4ANOV **$651**	D2-09BDC1-1 - $195 H2-CTRIO-M - $279 H2-ECOM - $275 D2-260 - $299 D2-16ND3-2 - $79 D2-16TD2-2 - $82 D2-08NA-1 - $65 D2-08TA - $95 F2-04AD2AD - $279 F2-02DA-1 - $152 **$1800**

I/O Comparisons

Features	EZPLC	DL205
DC Input	EZIO-8DCI - $22 for 8 Points	D2-08TD1 - $52 for 8 Points
DC output	EZIO-8DCOP - $22 for 8 Points (Short ckt Proof)	D2-08TD1 - $52 for 8 Points
Combo Analog	EZIO-4ANI4ANOC -$109 for 4 Analog In and 4 Analog Out	F2-4AD2DA - $279 for 4 Analog In and 2 Analog Out
Thermo-couple	EZIO-4THI - $139 for 4 Points, enhanced option for detecting broken wire or burnt thermocouple	F2-04THM - $299 for 4 Points
High Speed Counter	EZIO - 4RTD - $179 for 4 Points	F2-04RTD - $299 for 4 Points
Ethernet	EZPLC-ETHERNET - $99 with Modbus TCP/IP	H2-CTRIO - $289

EZiest to Use Drag-n-Drop Ladder Programming

$49

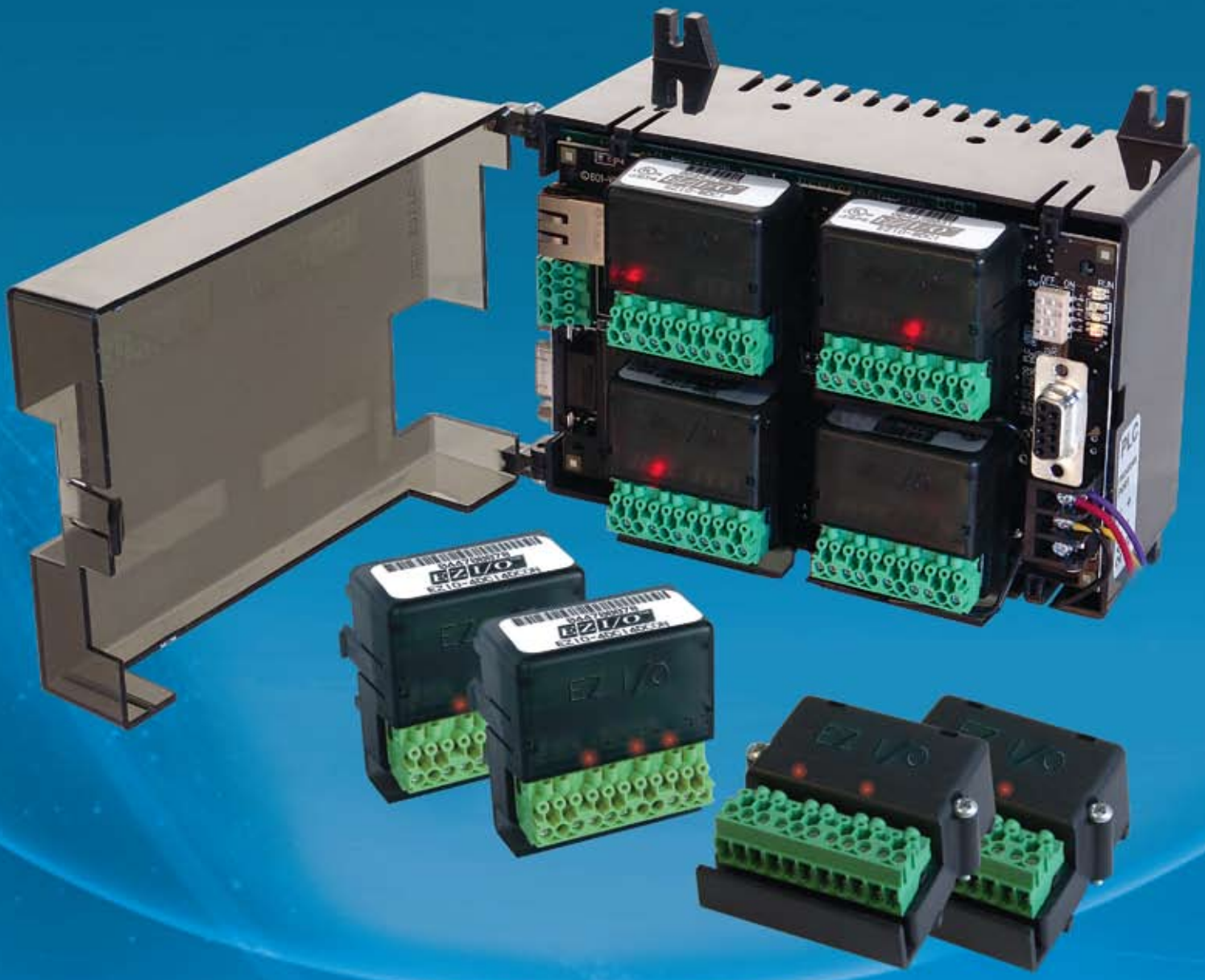


Modular PLCs starting at $69



EZPLC™

High-End PLCs at Cost of Fixed I/O PLCs & Smart relays



THE MOST SENSIBLE PLCs FROM 8 to 2048 I/O

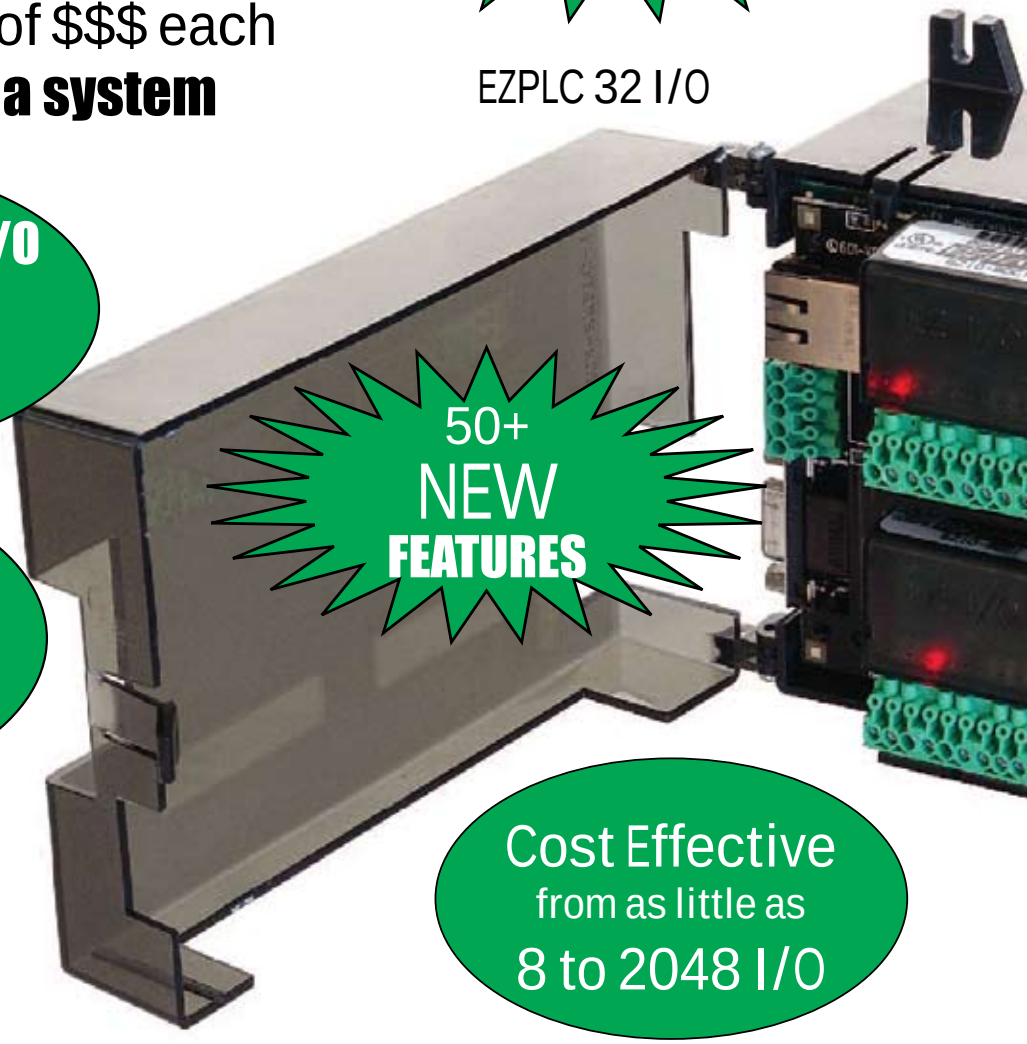
Innovate'n'Save™

EZPLC™

The Most SENSIBLE Micro Modular PLC with Distributed Control that saves you thousands of $$$ each **time you configure a system**

16 Digital I/O $166 / **32 Digital I/O $210**

EZPLC 32 I/O



Flexible; Plug-in I/O
Starting At $22 For 8 DC In or Out

50+ NEW **FEATURES**

First SENSIBLE **Analog I/O**
$109 For 12 Bit 4 **Analog In and 4 analog Out**

HALT CERTIFIED HASS

Cost Effective from as little as 8 to 2048 I/O

What is EZPLC?

EZPLC is the most innovative PLC in its class. It is packed with power only found in high end PLC's that cost 3 to 5 times more. It also sports the most flexible I/O in the industry.

What does it have?

- 8-96 Local I/O expandable to 2048
- Extremely flexible 8 point I/O models
- Total Program/Data memory 64K
- Fast scantime, 3ms for 1K instructions
- Powerful Ladder Logic instruction set
- Patent Pending Free Flow Logic
- Two integrated communication ports RS232 and RS422/485
- Supports ASCII In/Out instructions
- Built-in RealTime clock/calendar
- Modbus TCP/IP and Ethernet IP, DeviceNet, Profibus option
- Extremely cost effective Analog I/O
- 100 kHz counter module with PLS
- Interrupt Input with 60µs screw-to-screw response
- EZ to use programming software
- User program stored in Flash
- 8 Auto-tuned PID loops
- Same Hardware & Software from 8 I/O to 2048 I/O local or master

Where does it make sense?

This power-packed micro modular PLC is a good fit for most PLC applications from as little as 8 I/O to as large as 2048 I/O. Even the 8 I/O PLC has high-end PLC features found only in PLCs costing thousands more.

Where Option Modules DO NOT Cost More Than The PLC!

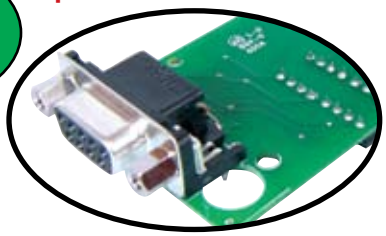
30 DAY GUARANTEE MONEY BACK

Innovate'n'Save™

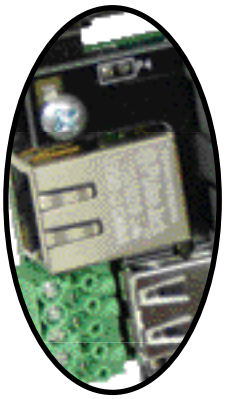
WOW!

Profibus Slave Option Card

$139







$100

Ethernet TCP/IP with EZPLC Protocol
Modbus TCP/IP
Ethernet IP

Starting At $122

Choice of four I/O bases: 32, 48, 64 or 96 with Power Supply, CPU and 2 COM ports

DeviceNet Option Card

$79





$109

100 KHz Counter Modules

$179

250 KHz PWM Modules

NEW



$49

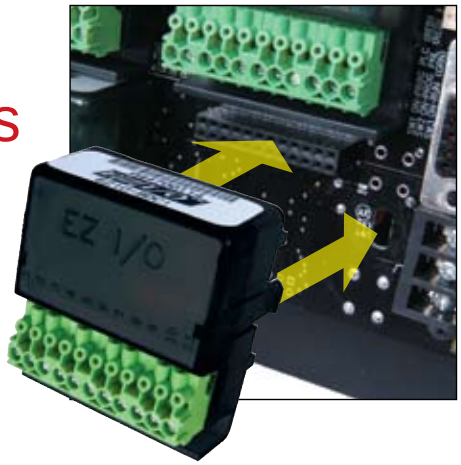
Transportable **Program Storage** Module

NEW

EZPLC™ We Looked At Every Detail!

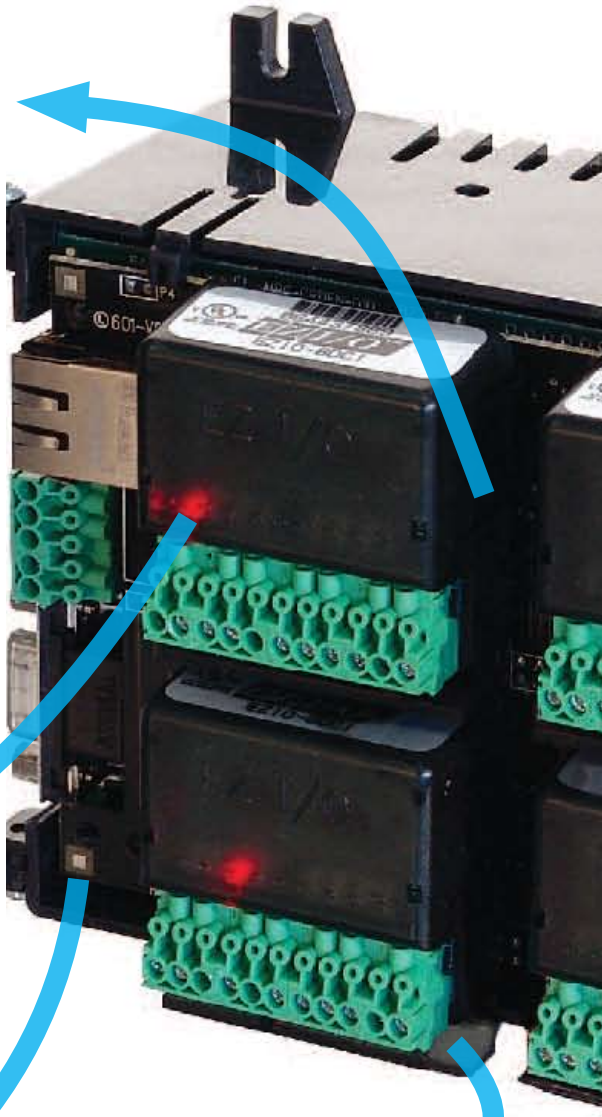
Snap-in or Screw down I/O Modules



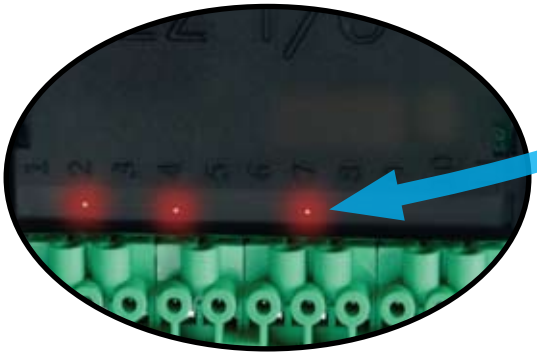


4 In/4 Out Wide Variety of Mix-n-Match I/O Modules

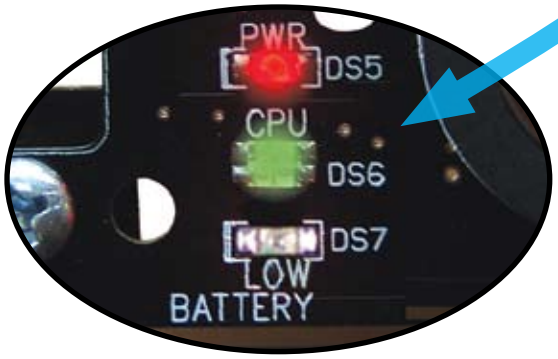
EZPLC offers the widest range of 4 In/4 Out I/O modules. Mix 4 DC In with 4 AC Out.



I/O Status LED Indicators



CPU Status Indicator LEDs



Built-in Wiring Guide

Innovate'n'Save™

AC/DC Mixed Modules for Highest Flexibility



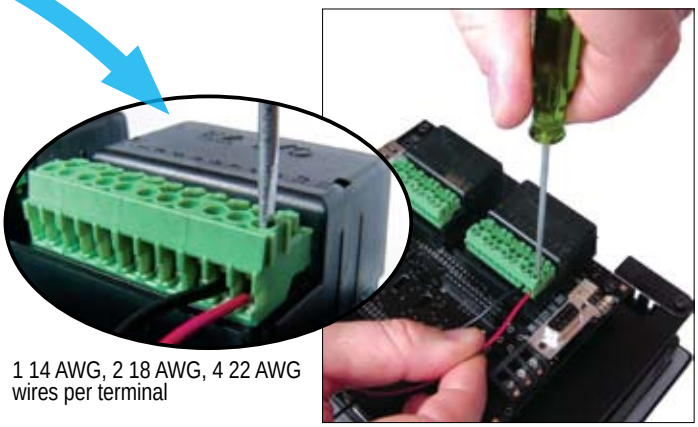
Shown here with Hinged snap-in cover removed to show details



0.5 Amp Short Circuit Proof DC Outputs

This 2x2x1" ultra compact module has 8 DC Outputs rated at 0.5 Amp each that are short circuit proof!

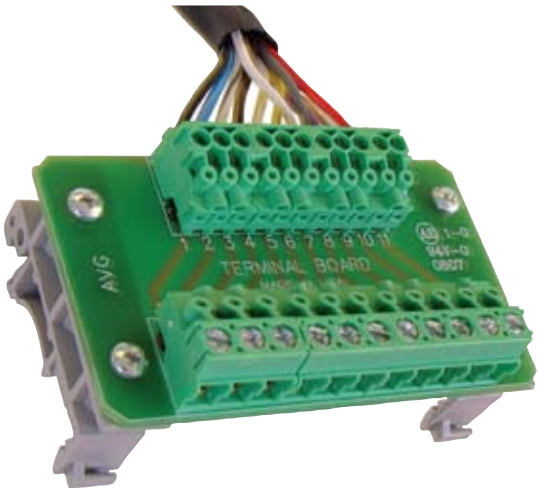
EZ to Wire Phoenix Plug-in Terminal Blocks



1 14 AWG, 2 18 AWG, 4 22 AWG wires per terminal

24 VDC or 110 VAC power input

EZLink for bigger terminal blocks or 10 Amp relay outputs



DIN mount I/O Terminal Interface using removable terminal blocks

EZPLC Jr.™ High Performance Plug-in I/O

NEW

64KB User Memory, 8192 Registers

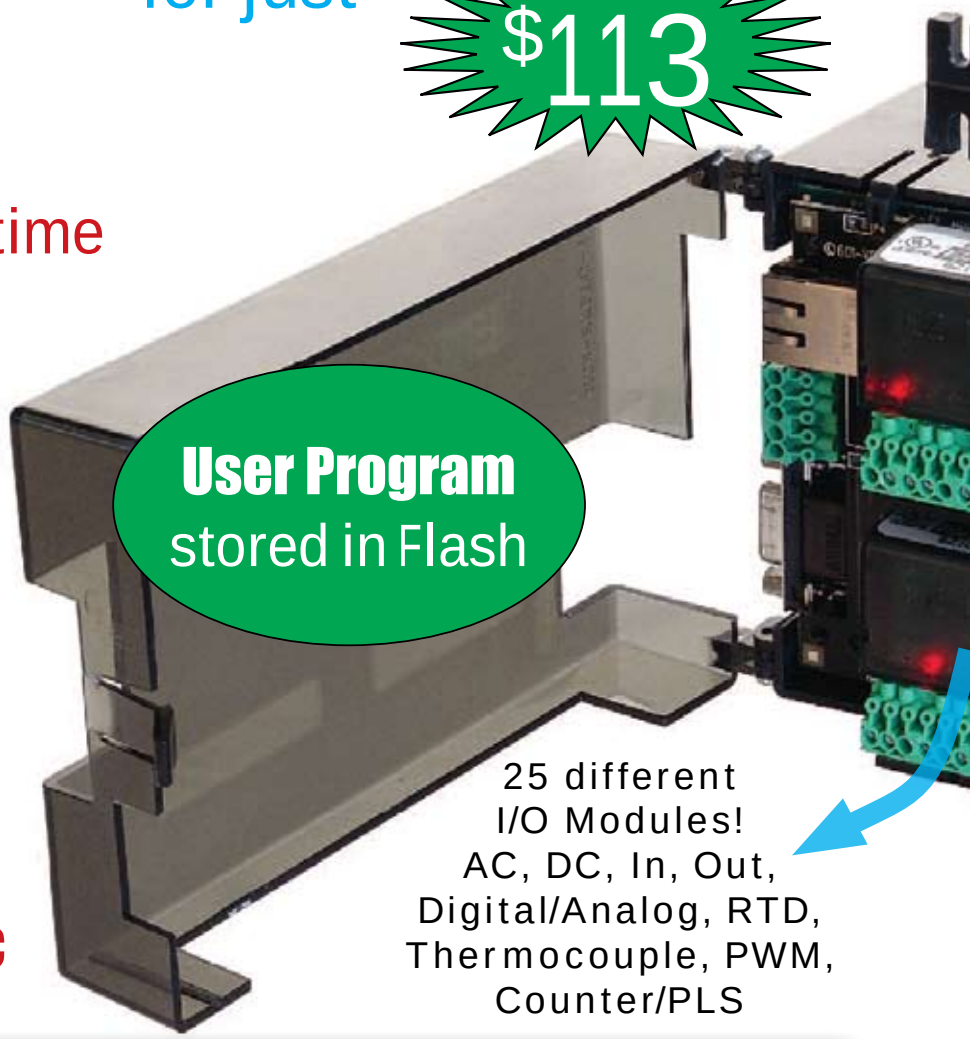
16 I/O Complete System for just $113

8192 Registers

64K Available for Ladder & Memory

5 ms Scantime





Timers, Counters, Floating point Math, Drum Sequencer, High-end Ladder logic

25 different I/O Modules! AC, DC, In, Out, Digital/Analog, RTD, Thermocouple, PWM, Counter/PLS

What is EZPLC Jr. ?

EZPLC Jr. is the most innovative PLC in its class. It is packed with power only found in high end PLC's that cost 3 to 5 times more. It also sports the most flexible I/O in the industry.

What does it have?

- 32 Modular I/O
- Extremely flexible 8 point I/O models
- Total Program/Data memory 64K
- Fast scantime, 5ms for 1K instructions
- Powerful Ladder Logic instruction set
- Patent Pending Free Flow Logic
- RS232 communication port
- Supports ASCII In/Out instructions
- Extremely cost effective Analog I/O
- 100 kHz counter module with PLS
- Interrupt Input
- EZ to use programming software
- User program stored in Flash
- 8 Auto-tuned PID loops

Where does it make sense?

At the price of $69 for the base and 8 point plug-in world class I/O with LED indicators for each output, for just $22, the EZPLC Jr. will be attractive for even small applications otherwise using relay logic or intelligent relays. With this incredible PLC you can have some quite powerful features even in very low-cost machines.

Innovate'n'Save™

32 I/O Modular PLC at the price of an Intelligent Relay

Base **Starting At** $69

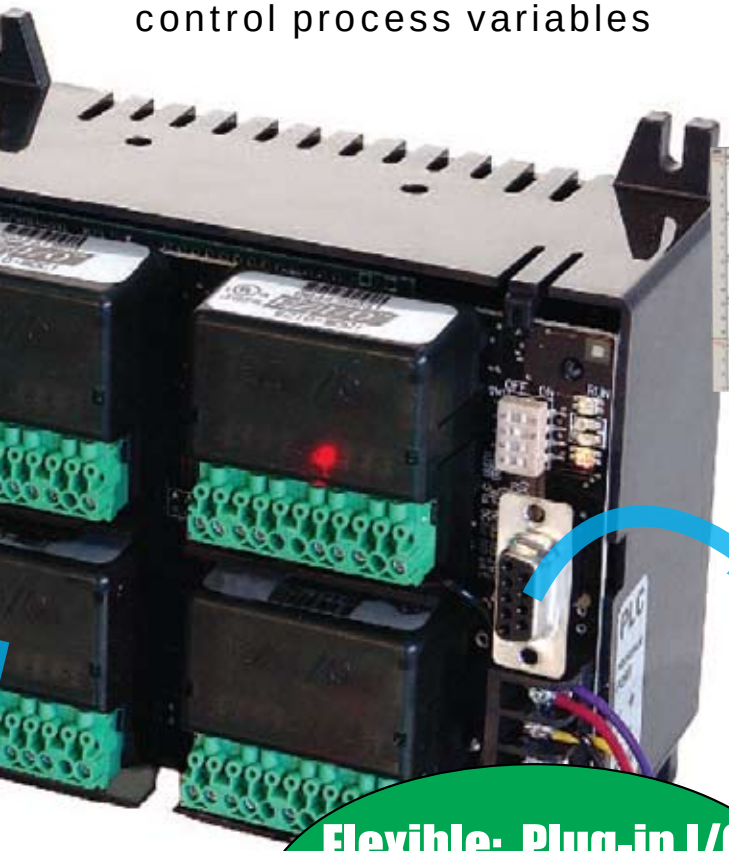
WOW!

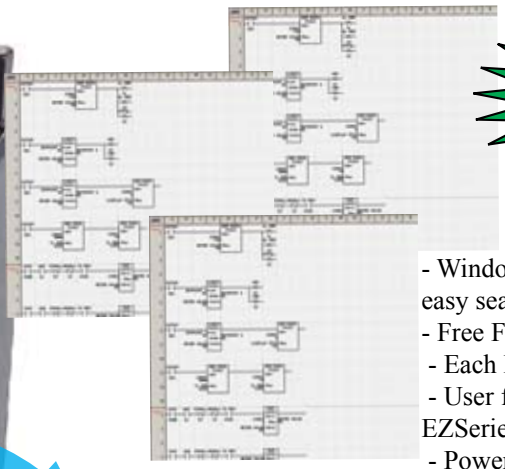
8 Autotuned PID Loops

This micro modular PLC has 8 auto-tuned PID loops to control process variables

Programming Software at a Great Price

$49





- Windows type folders for quick and easy search
- Free Flow Ladder Logic
- Each Rung Commented
- User friendly dialog boxes like EZSeries programming software
- Powerful data instruction
- Very intuitive programming

RS232 Program/ HMI port

Advanced Instruction Set

EZPLC Jr. has 55 powerful instructions found only in much more expensive PLCs

Flexible; Plug-in I/O
Starting At $22 For 8 DC In or Out

0.5 Amp Short Circuit Proof DC Outputs

Analog I/O
$109 For 12 Bit 4 **Analog In and 4 analog Out**

EZPLC Jr. Plus screw down model

Starting At $89



EZPLC™ Now has Distibuted Control for fraction of Cost

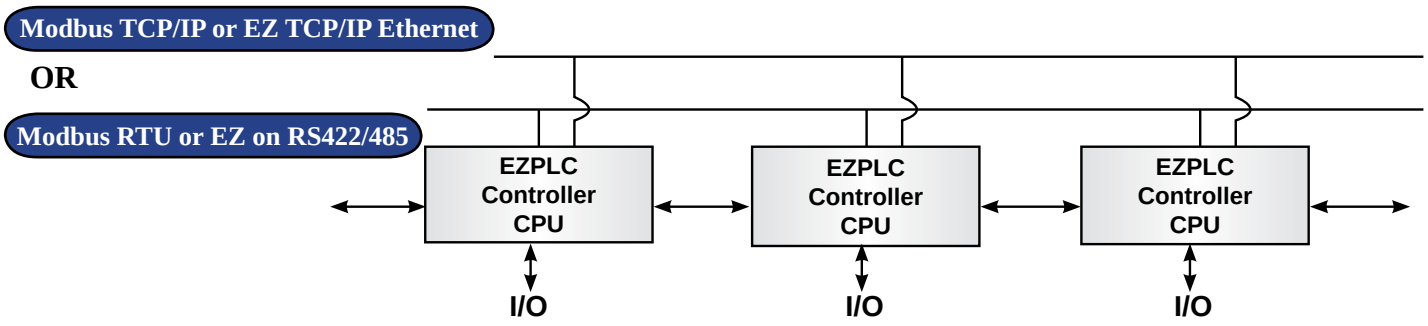
NEW

Simply Incredible!!

500 I/O
5 Station system
over Ethernet
< $3000

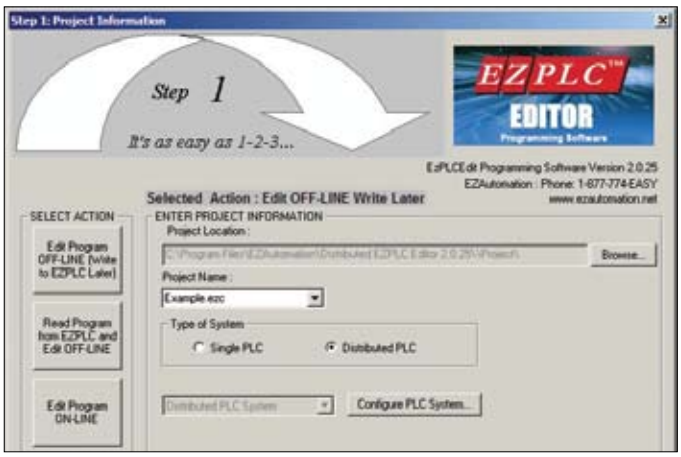
Many control applications require local controllers working in conjunction with each other forming what is known as a Distributed Control Network. Each local controller has its own CPU and I/O to provide local logic to achieve higher system reliability (you are not counting on one master PLC to control the entire system) as well as higher speeds. Yet the controllers need to work in seamless synchronization as one control system. There are many systems out there in the market from suppliers that service the process control inductry such as Honey-well and Foxbro. However the starting price for these system is over $20,000!! EZAutomation has enhanced its popular EZPLC to provide a comparable if not better Distributed Control system for fraction of the cost.

EZPLC changes the Distributed Control Paradigm



Innovate'n'Save™

All the PLCs in the Distributed Network can be programmed either locally or through one port







Each local CPU with 64KB of Memory and 40MHz coldfire Risc processor capable of 60µs **screw-to-screw re-**sponse.

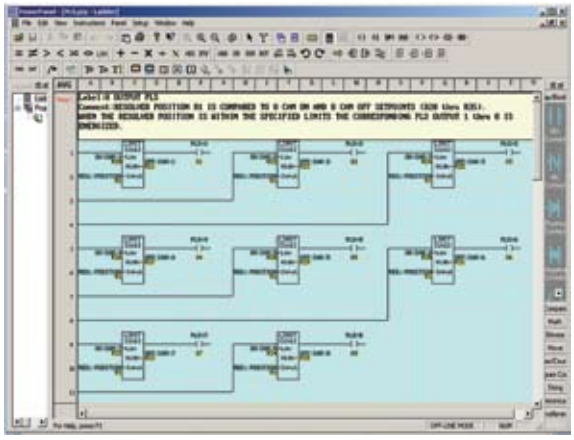
For a Live Demonstration,
www.ezautomation.net/ezplc/distributed

EZPLC™ You will not find a PLC that has common hardware and software from as little as 8 I/O to 2048 I/O!! *Innovate'n'Save™*



Common Software

EZ Drag-n-Drop software with patent pending free flow logic is the same whether you use 8 I/Os or all the way to 2048 I/O

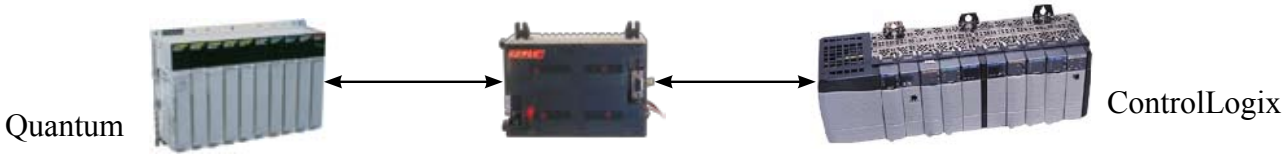


Equally Cost Effective at 8 I/O as well as 2048 I/O

Cost	8 I/O	16 I/O	96 I/O	512 I/O	2048 I/O
Total System Cost	$144	$156	$483	$3080	$12320
Cost per I/O point	$18.00	$9.75	$5.03	$6.01	$6.01
Note: Cost illustration assumes Digital I/O and RS 422/485 connection between PLCs					

EZPLC can easily communicate to any other controller with Modbus TCP/IP or Ethernet IP

(ControlLogix, MicroLogix, SLC PLCs from Allen Bradley)

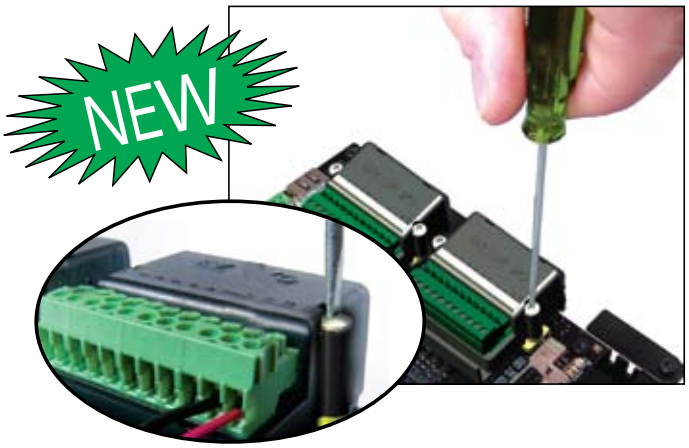


EZPLC Plus™ With Screw-down I/O

For most applications the original snap-in I/O modules have been more than adequate from a shock and vibration point of view. However, some customers have indicated a preference of having the traditional screw-down mechanism of other PLCs and their I/O modules. As a result we decided to tool screw-down versions of all EZPLCs as well as EZI/O. The rest of all fumctionality remains the same. **Letter "P" is added to the PLC and I/O part numbers to indicate Plus models, e.g. EZPLCP-D-32 or EZIOP-8DCOP**



Snap-in I/O Modules



EZPLC Plus screw-down I/O Modules (approx. 20% adder)

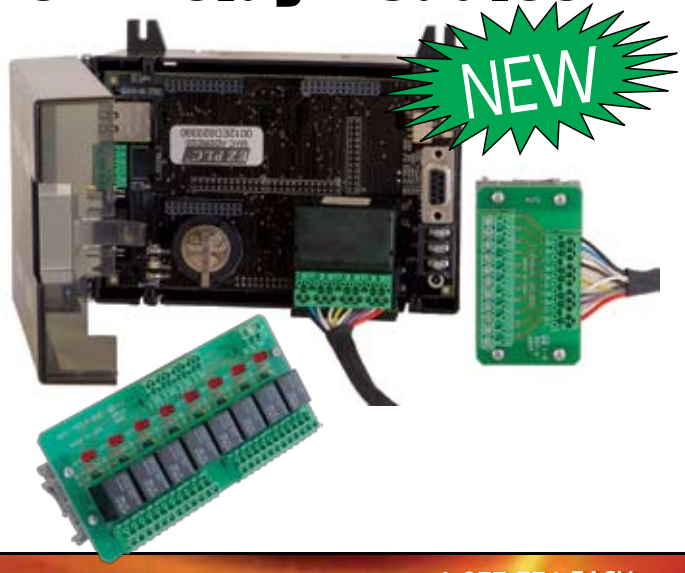
The EZPLC Plus with screw-down I/O offers the following advantage:
1. Better shock and vibration immunity
2. Less slipping damage (particularly if the control panel is shipped with I/O upside down)
3. Less likelihood of customer not inserting the module correctly resulting in electronics damage
4. A more positive Locking Mechanism

EZLink™ Quick Insert EZ I/O Cables and High current Relay Modules

EZLink Cables and DIN mounted plug-in and removable terminal blocks are offered for applications where bigger and/or more accessible terminal blocks are needed for wiring.

Another DIN mounted terminal block is offered with plug-in and removable connectors, LED indicators and eight 10 Amp 1 Form C Relays with common and NO and NC contacts.

Part Number	Description	Price
EZ-LINK-CBL	Cable	$25
EZ-LINK-RLY	8 of 10 Amp Relays 1 Form C	$69
EZ-LINK-EXT	11-pin Extender board	$29



EZPLC™ Almost Free, Drag-n-Drop Software

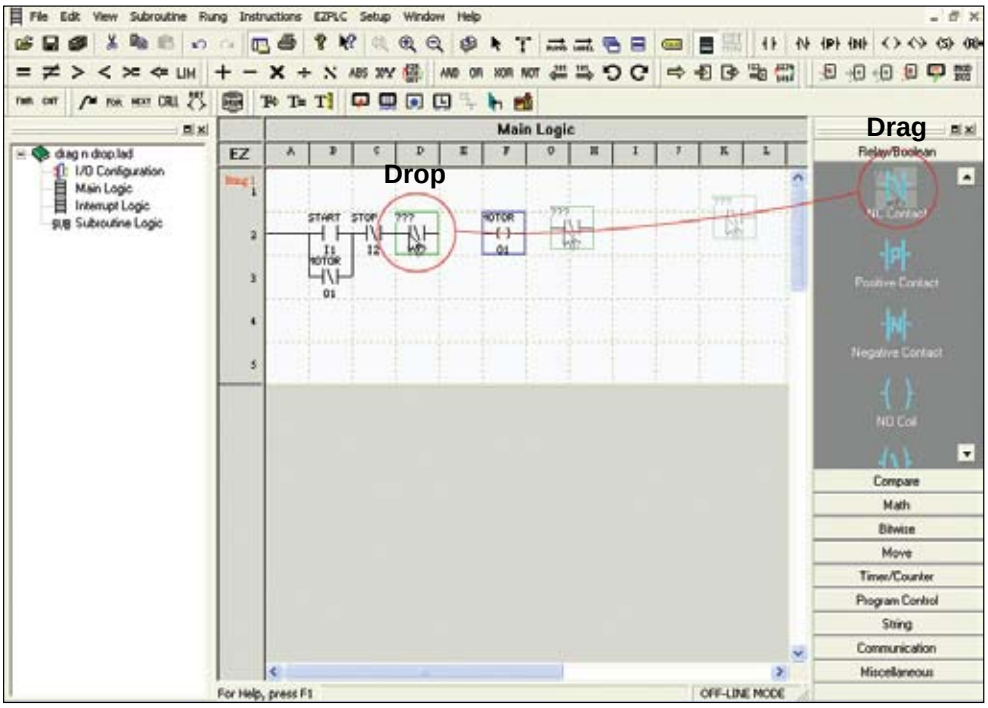
$49

No Cumbersome Licensing and Maintenance fees

No complicated syntax and rules to learn

No class required

A Very Simple Addressing Format



When PLCs came into existence, the PLC manufacturers followed the same convention as in relay ladder logic. However each manufacturer chose their own rules for connecting and adding ladder elements, such as start and stop contacts. Just like English, Spanish, German, Chinese, Hindi and other languages, have their own scripts and their own grammar, PLC manufacturers like AB, Modicon, Seimens, Mitsubishi, Uticor and others developed their own grammar and syntax. Once you learnt one language, you usually stuck with that brand of PLC.

Today one single plant is likely to have multiple brands of PLCs, requiring Electricians & Maintenance personnel to remember these multiple languages. One may have learnt AB Language months ago, but had not gotten a chance to use it. Troubleshooting the PLC system months later, it is going to be difficult trying to remember the correct syntax. If it is a Siemens PLC, it might take the same person a week to just get started. **It is in this context the EZPLC Drag-n-Drop software was developed. It is essentially a graphical language, you draw the ladder intuitively.**

Innovate'n'Save™

No complicated syntax and rules Can be learnt in a few minutes.

Just like drawing a ladder diagram on paper

EZPLC Programming Software
An order of magnitude simpler!



DL205 Programming Software

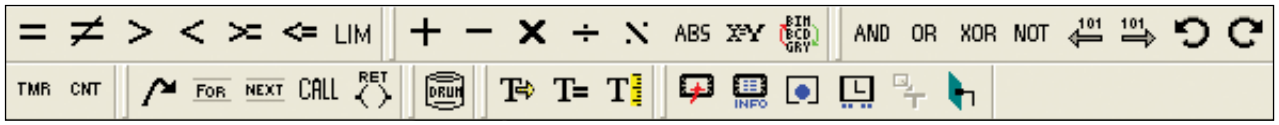


32 Bit Floating Point Math

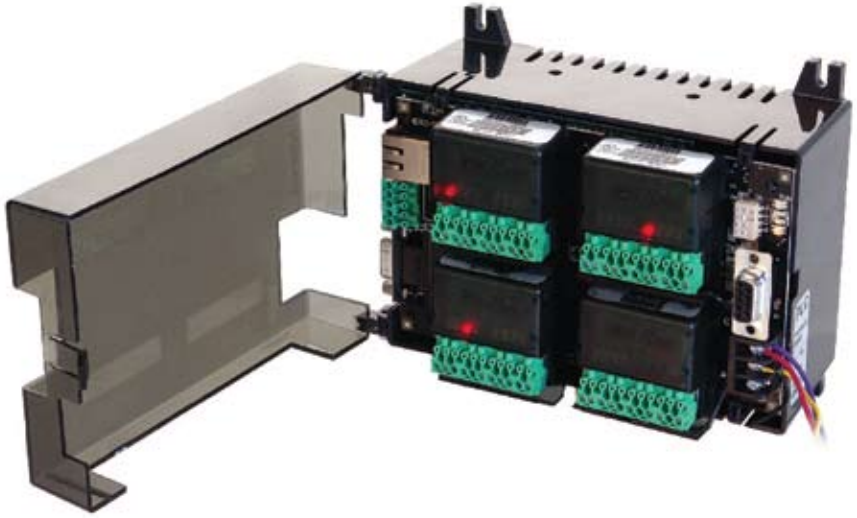
Add, Subtract, Multiply, Divide, Modulo, Absolute, Binary to BCD to Gray Code Conversions

NEW

Mathematical Tool Bar



This incredible distributed I/O modular PLC supports 32 bit floating point, 32 bit signed & unsigned double integer, 16 bit signed and unsigned integer data options which support all mathematical functions such as Addition, Subtraction, Multiplication, Division, Modulo & Absolute. It also supports data conversions from binary to BCD or gray code.



Innovate'n'Save™

User Program Stored in Flash

User program saved in non volatile Flash memory instead of battery backed up RAM. It safeguards the user program in the event of loss of battery power in the EZPLC

When is Flash backup done?

Flash backup occurs automatically when either a user program is downloaded to the EZSeries PLCs or after one or more online changes are made and the program loader is closed.

When is ladder logic Restored from the Flash Backup?

On power up, EZPLC compares ladder logic in RAM with the one stored in the FLASH.
If it is different, the program is restored from FLASH to the RAM.

64 KB of Non Volatile Flash Memory in **EZSeries PLCs costing** as little as $69

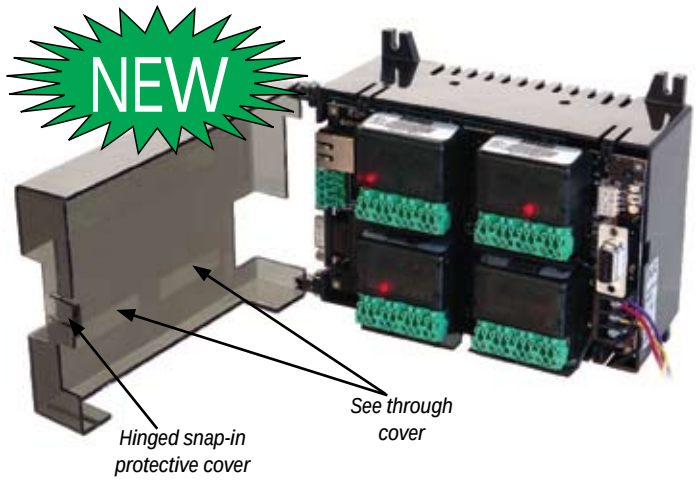
Wow!

Engineered Plastic/Translucent Snap-in Cover

EZPLCs are now available in engineered plastic housings without any price adder for a cover. These housings also have a see-through cover through which all LED's are visible. Cable routing is done through the bottom of the PLC.

The EZ PLC product line is thus a step better than most PLCs in that, the cover offers an additional layer of protection from dust and accidental spills . This is presently available for 4 slot and 8 slot base models.

Currently available in 32 & 64 I/O Models



User Program with Password Protects OEM/SI Investment

EZ Automation introduces password protection on its PLCs for the project / Application developed by an OEM or an SI. ***In order to even view the program, the protected project password is required to be entered.*** With this feature the application writer can protect his/her investment of intellectual property not to be copied by third parties.

This feature is also available in the EZ Series Touch panels whereby the user is required to enter a password to upload the application program to a PC.

The above feature for PLC IP protection is also available in EZSeries TextPLC and EZSeries TouchPLC.



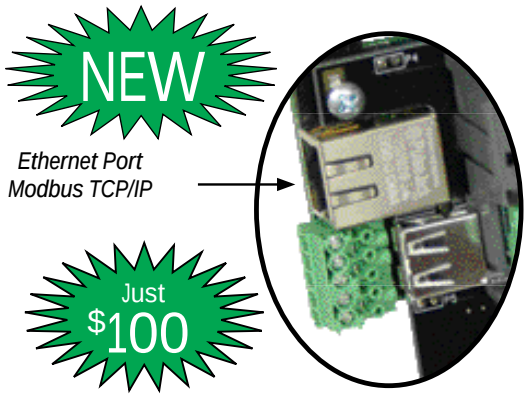
EZPLC now with Modbus TCP/IP and Ethernet IP ... *Innovate'n'Save™*

EZ Automation introduces Modbus TCP / IP and Ethernet IP protocols in its EZSeries PLC product line. This feature is now available on all its EZSeries PLC, EZSeries TouchPLC as well its EZSeries Text PLC models having Ethernet port options.

EZSeries PLC customers not using Ethernet option can upgrade their hardware to Modbus TCP/IP and Ethernet IP over ethernet for just $100. Customers who already have the Ethernet port can download our Latest firmware for Modbus TCP/IP and Ethernet IP from our website at no additional cost.

Now more than one EZSeries PLCs can be networked through Ethernet via Modbus TCP/IP for I/O expansion. This port can also be used for communicating with Touch panels / HMI / SCADA via Modbus TCP / IP or Ethernet IP.

Another point to remember is that EZSeries PLC can act both as a master or slave under program control. In fact during the program scan itself, the EZSeries PLC can switch from master to slave or vice-versa.



EZ Ethernet I/P Interface to AB PLCs



Micrologix 1100



ControlLogix

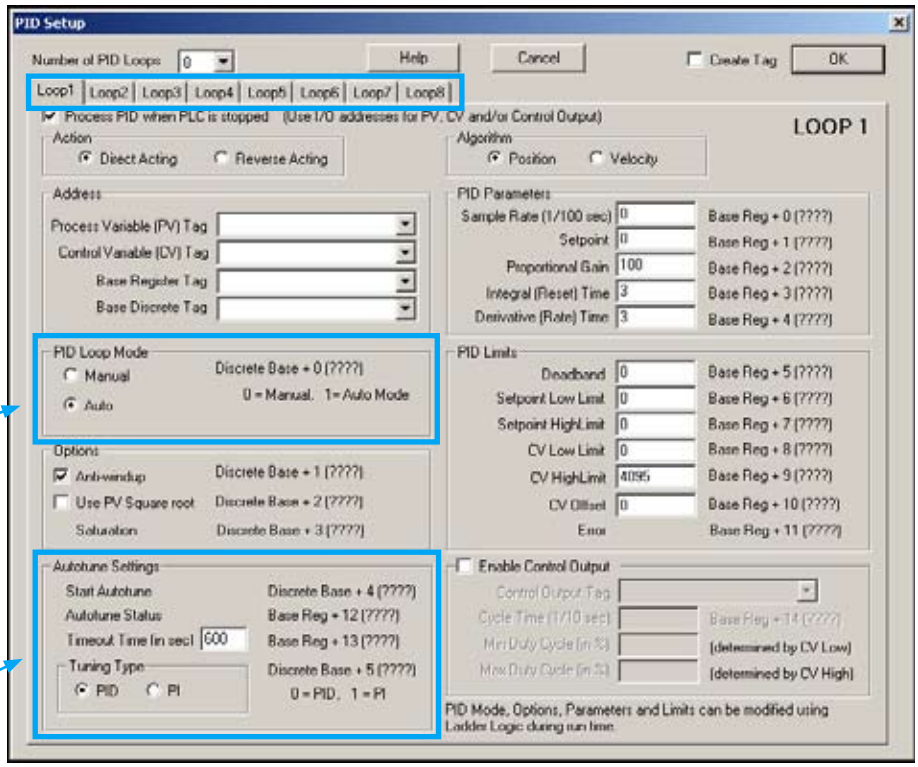
EZPLC™ The Incredible EZPLC can handle 8 Auto-tuned PID Loops with Unique PID Monitor

What is PID Loop?

PID is one of the most popular control algorithms used in the industry, to control the variables involved in an industrial manufacturing process, for the proper operation of the process. PID stands for Proportional, Integral and Derivative control algorithm. With a proper choice of P, I, and D settings, a user can maintain a process value very close to the setpoint. In addition, if the setpoint changes, the PID algorithm can quickly bring the process back under control. EZSeries PLC supports up to 8 PID loops. For each loop you have to define several parameters, as shown below in the PID Setup window. You may change most of these parameters during run time, using EZPLC editor in online mode.

PID Loop Auto Tuning

To achieve a stable and responsive process control, it is very important to select the proper PID parameters. Experienced users can estimate good starting values for these parameters and later tweak them to optimize the PID loop performance. This is called as the manual tuning of the process. Whereas, those who want help in estimating the starting values of the parameters like P, I, and D coefficients, EZSeries PLC provides an Autotune feature.



Autotune Control

Each PID Loop is controlled by the Start Autotune discrete variable (which is at Discrete Base+4). If the variable goes from false to true, and the loop is in manual mode, EZPLC would start autotuning that loop.

Autotune Setup

The EZSeries PLC can autotune PID loops, i.e. it can estimate the values for the Proportional Gain, Integral (Reset) time, and Derivative (Rate) time for PID loop. The dialog box allows you to setup the loop for autotune. EZSeries PLC uses Ziegler-Nichols method to estimate the PID parameters.

Start Autotune

Shown on the dialog box for information only.
The Start Autotune discrete is at Discrete Base+4. EZSeries PLC initiates autotuning of a loop when this bit transitions from 0 to 1. Autotuning of the loop is started regardless of the selected “PID Loop Mode” of the loop. Once Autotune is started, you can stop it by setting this bit to 0.

Timeout Time (in sec)

User programs Autotune timeout in seconds in this register. If EZSeries PLC can not finish autotuning within this time, the Autotune is aborted. User should program this field based on the dynamics of the process.

Autotune Status

Shown on the dialog box for information only. During Autotune, EZSeries PLC reports the status of Autotune in the register.

Register Value	Description
0	Tuning in Progress
1	Tuning Done
2	User cancelled tuning
3	Control Value could not be incremented
4	The tuning algorithm failed to fit the curve
5	Division by zero error
6	Could not determine dead time
7	one or more of P, I or D was out of range

Note: Autotune is performed by EZSeries PLC observing open loop response to a step change in the control value. Before starting autotune, the process should be in a steady state. During Autotune, watch the process variable closely for it to be within the safe limits.



8 Auto Tuned
PID Loops in a
$122 Modular
Jr. PLC

Tuning Type

User selects if PI or PID tuning is required.

PID Monitor

You can use the PID Monitor function to monitor and make real-time changes to your PID Loop. In order to use it, you must be connected to the PLC and select Main Menu > EZPLC > PID Monitor. A PID Monitor window will show up. Here you can change the current values of the parameters by entering a value in the New Value field. Once all of the parameters are defined, press the Apply button and then Start Monitoring button at the bottom, to begin monitoring your PID Loop. A graph will begin to appear as shown in the image below.



Innovate'n'Save™

In the illustration above, the Setpoint and Process Variable were set to 450 and are represented in the graph by the line running through the middle of the graph.The Minimum SP of 400 is shown at the bottom left and the Maximum Limit of 500 is shown at the top left of the graph. The Control Variable was set to 110 and is represented on the right side of the graph.

EZPLC™ EZPLC Jr.™

Great New Modules!! *Innovate'n'Save™*

Pulse Width Module (PWM)

High degree of flexibility in configuring the module



The EZIOP-PWM and EZIO-PWM modules are intelligent, flexible and configurable modules for use with EZPLC, and provides Pulse Train Output (PTO) or Pulse Width Modulation (PWM) output. The modules offer 4 channels of outputs. Each channel can independently be programmed for PTO or PWM outputs. In addition to the outputs, the modules offer high speed quadrature or pulse counting.

The PWM module uses ET 7272B differential drivers and can operate from 3.5-30V external supply. The outputs are protected against accidental shorts for a short duration.

The PWM Modules can be configured as follows:
2 PWM Channels with sourcing outputs
or
1 PWM and 1 PTO sourcing outputs
or
1 PWM differential outputs
or
1 PTO differential outputs

Inputs can be confgured for either quadrature encoder input or external start-stop bits for PWM or PTO

Program Storage Module



The EZIO-PRGM or EZIOP-PRGM module allows a user to back up PLC program. OEMs and System Integrators can use the module to distribute PLC program updates to their customers. End-user plants can change the PLC program without needing a PC and programming software.

To back up a PLC program, user places the module in any of the slots in the PLC. User may place more than one module in the PLC base. This allows users to "gang-program" up to 10 modules using a 12-module base at one time. Using EZSeries PLC programming software, the user then downloads the program to be backed up to the PLC and issues backup command. User is prompted to indicate all slots in the PLC base which have Backup modules. The programming software then initiates the back-up. LED indicator on the module indicates the back- up activity. Once the modules are programmed with the user-program, they can be taken out after turning the power off.

To restore the user program, a user needs to plug-in the backup module in any of the I/O slots of the plc base. On power-up, the plc will detect the backup module, and restore the user program. If the backup module does not have a valid program, the program is not restored.

Part Number	Description	Price
EZIO-PRGM	For all EZPLC Series including Jr.	$49
EZIOP-PRGM	For all EZPLC Plus Series including Jr.	$59

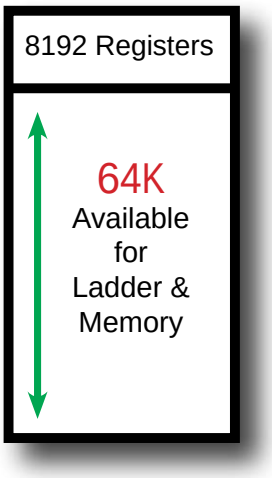
EZPLC™ Performance You Will Find Only in PLCs Costing Thousands More!

To get 8192 Registers, 64K of memory and scan time in the range of 3 ms, you have to buy a PLC costing thousands of dollars.

64k Byte User Memory

Most Micro PLCs have only a limited 8-16k memory. But not this souped up PLC! Some of the things you can do with this 64k byte memory:

- Store 2000 Messages
- Store 500 (20 Variable) Recipes
- Collect 10,000 (4 Variable) Data Points





32 Bit, 40 MHz RISC Processor with Built-in Ethernet

This $122 PLC uses a powerful 40 Mhz RISC processor allowing us to achieve 3ms scan time and support for large amounts of memory. The number of variables itself is 8192.

User Program in Flash

8 Auto-tuned PID Loops

Let's Take an Example

Assume the application to be a small 32 I/O PLC system, however with fast scan time and lots of memory. Further let's assume 24 VDC power needs 16 24 VDC digital inputs, 8 24 VDC digital outputs, 4 12 bit analog inputs and 4 12 bit analog outputs.

Allen Bradley Solution





CompactLogix

Typical Scan Time (1K Boolean):	(2ms I/O Update Period Min)
Total Memory available (words):	64K (L20)
1769-L20 Processor	$830
Digital I/O	$758
Analog I/O	$1,392
1769-ECR Misc	$31

Total $3011





DL205

Typical Scan Time (1K Boolean):	1.9ms
Total Memory available (words):	30.4K
D2-16ND3-2	$79
D2-08TD2	$49
F2-04AD-2	$219
F2-02DA-2	$159
D2-06BDC1-1	$157
D2-260	$299

Total $962



EZPLC

Typical Scan Time (1K Boolean):	(3ms I/O Update)
Total Memory available (words):	64K
EZPLC-A-32	$139
EZIO-8DCI	2@$22
EZIO-8DCO	$22
EZIO-4ANI4ANO	$109

Total $314



EZPLC™

Five Reasons Why EZPLC is the Most SENSIBLE PLC for You!

1 Extremely Flexible and SENSIBLE I/O

- Patent Pending Mix-n-Match I/O
- 26 Modules to Choose From
- 8 DC In/Out Starting at $22
- Variety of Intelligent I/O Modules such as high speed counter and PWM



Back-up program storage module

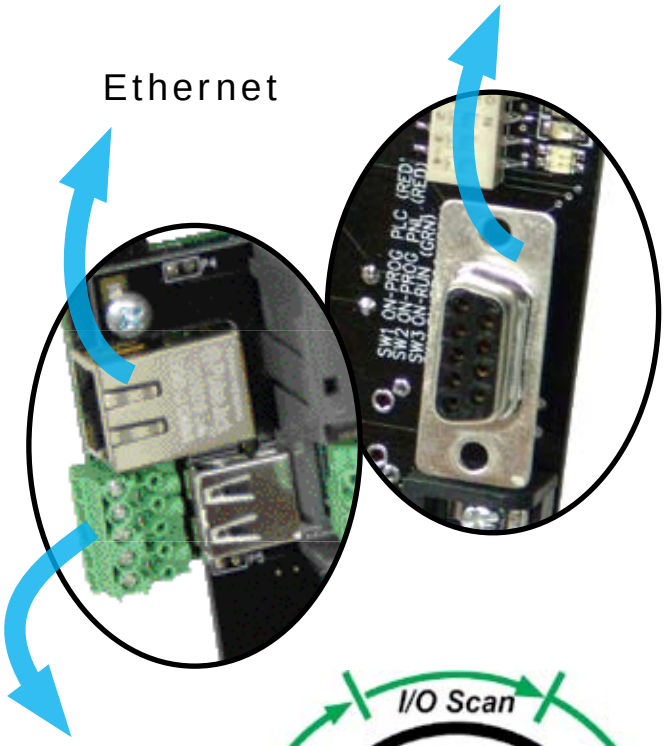
Port 1 RS232

2 First SENSIBLE Analog I/O

EZPLC offers true versatility when it comes to Analog I/O modules. Analog modules are available as 8AI to combinations like 4AI/4AO for only $109 each. The modules are 12 bit and have 0-5V, 0-10V, 4-20 mA, or 0-20 mA options.

3 Incredible Communications Capability

The EZPLC comes with two serial communication ports on every model. Port 1 is RS232 which can be used for programming and connection to an operator interface. Port 2 is RS422/485 which can be used in a variety of ways including ASCII In/Out, EZMarquee connectivity, and AC drive just to name a few. Use EZPLC's enhanced base for Ethernet IP, Modbus TCP/IP or TCP/IP communications for only $100 more. DeviceNet and Profibus slave cards are available for $79 and $139 respectively.



Port 2 RS422/485

4 Extremely Powerful CPU

- 32 Bit, 40 MHz RISC Processor
- 8192 Total Registers, 8192 variables
- 3 ms Scantime (1K Typical Instructions)
- Powerful instruction set



5 SENSIBLE EZ to Use Programming Software Priced at $49

- On-Line Programming
- Tag Based Addressing
- Marquee Instruction Set
- Patent pending Free Flow Logic
- Very intuitive and familiar EZ as 1-2-3 software

Innovate'n'Save™

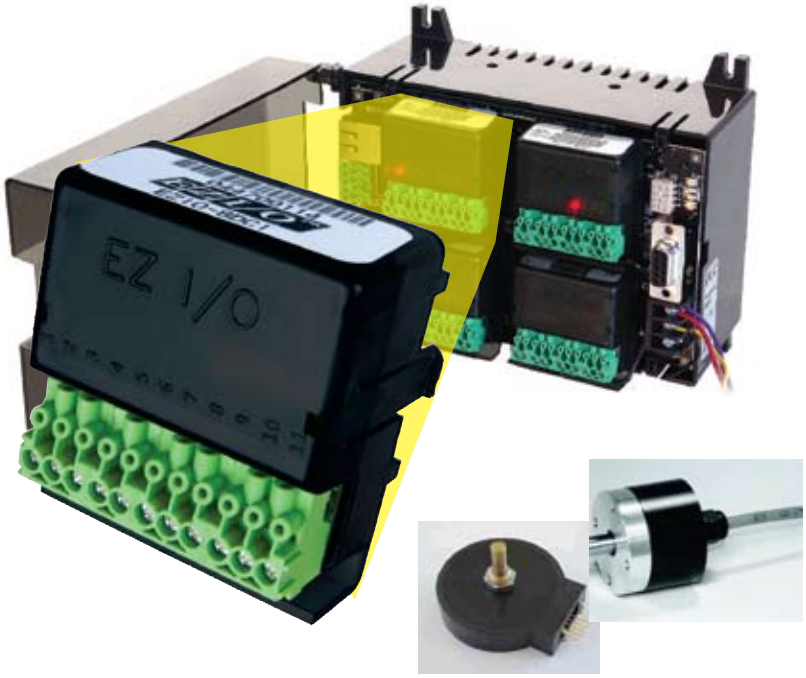
EZPLC For High Speed Applications

Remember Autotech's "Highest Operating Speed" Trait?
We love High Speed!

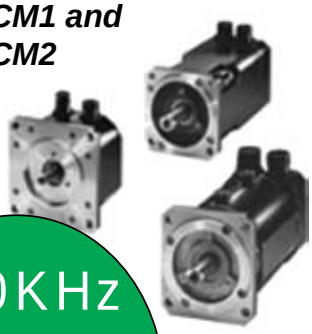
1 High Speed Counter Modules

We have two 24 bit High Speed Counter Modules that can accept quadrature encoders up to 100KHz in frequency and have sophisticated options to multiply the count by two or four and also sport PLS outputs with less than 100µs throughput.

ONLY $99



EZIO-4HSCM1 and EZIO-4HSCM2



100KHz Encoder 100µs PLS

2 High Speed Interrupt Modules

This module's eighth DC input is configured to generate an immediate interrupt in the PLC scan loop, execute a subroutine and turn on or off a DC output in less than 40µs.



ONLY $27

40µs Response to external Interrupt

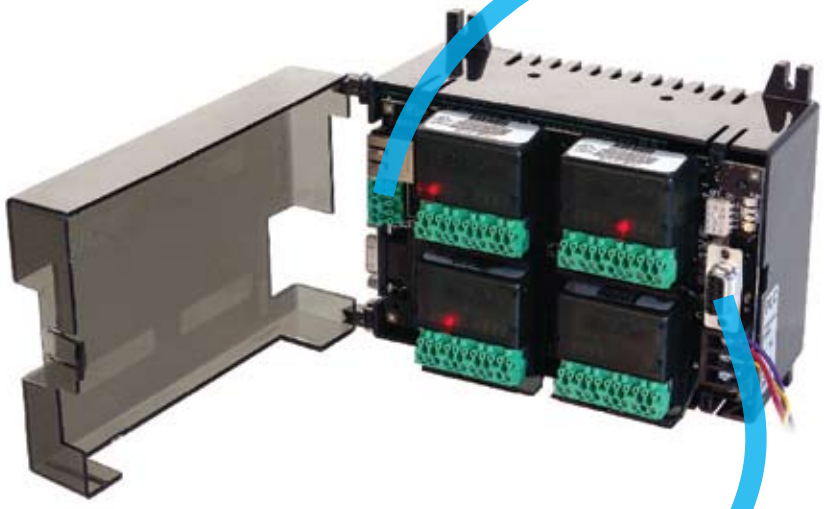
EZIO-4DCI4DCIF

**** For Full specifications, see pages 9-13 and 9-30 in EZI/O section.***

Innovate'n'Save™

EZPLC™ Practical Discrete Control

Top six reasons why the EZPLC is perfect for discrete applications...



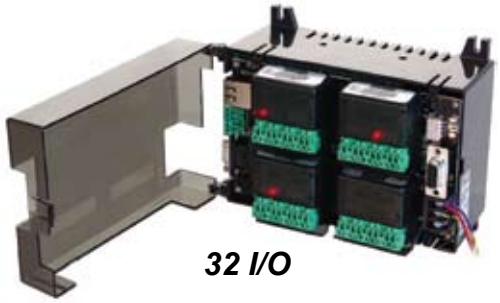
1 8-2048 I/O Points with Highest Flexibility

When it comes to Micro-Modular PLC's, EZ-PLC is the most flexible in its class. In fact EZPLC takes it one step further to bridge that gap between Micro's and PLC's like AB's SLC and Automation Direct's DL205. With DL06 one needs to specify the base model with fixed I/O type, where as EZPLC uses one base for any kind of I/O whether they are DC, AC, Analog, Relay or any other combination of Inputs/Outputs or AC/DC in one module! All you have to do is to specify a base of PLC as per your maximum I/O need, pick your EZ-I/O to go along with it and you are all set!



2 Available in 4 Base Models for Size Constraints

EZPLC base is available in 4 models to accommodate 32, 48, 64 and 96 I/O points. There is no restriction of I/O types that could be used with any of the bases except AC output modules cannot be used in the bottom left slot. Just choose the right base model based on your maximum I/O requirements:



32 I/O



48 I/O



64 I/O



96 I/O



3 Practical Connectivity

The EZPLC comes with two serial communication ports on every model. Port 1 is RS232 which can be used for programming and connection to an operator interface. Port 2 is RS422/485 which can be used in a variety of ways including ASCII In/Out, and AC drive just to name a few. Use EZPLC's enhanced base for Ethernet communications for only $100 more.

4 AC/DC Mixed Modules

When it comes to modular I/O there is absolutely nothing comparable to EZ I/O. EZ I/O is the first in market to offer AC/DC combinations in a single module.

- Smallest modular I/O (2x2x1")
- 26 models to choose from
- Removable Terminal Blocks
- LED indicator for each I/O
- Extremely efficient "Mix-n-match" I/O



ONLY $34 EA.

5 3ms Scantime

EZPLC has an unbeatable scan time of 3ms for 1k instructions in its class. When we say 3ms scan time it includes all the overhead along with the scan, which makes it undoubted the fastest PLC in Micro-PLC class! EZPLC uses a super fast 40Mhz ColdFire processor with support for Ethernet built-in.



6 Expansion upto 2048 I/O

EZPLC can be expanded to have upto 2048 discrete I/O points by connecting the PLCs over RS422/485 or Ethernet ports



7 Programming Software at a Great Price

Our EZPLC programming software makes programming your application as EZ as 1-2-3 and affordable at $49. Some of the great features include:

$49

- Windows type folders for quick and easy search
- Free Flow Ladder Logic
- Each Rung Commented
- User friendly dialog boxes like EZSeries programming software
- Powerful data instruction
- Very intuitive programming

EZPLC™ Unbeatable for Analog Control

Top five reasons to use EZPLC for analog control...

1 Four-For-One Pricing

Use Analog I/O modules with EZPLC to make the lowest cost/highest functionality analog control system in the Micro-PLC world. The cost of a competitor's analog control system would buy you FOUR EZPLCs; try beating that!
(check the comparison of Analog I/O modules)

ONLY $109 EA.



2 Choice of 4 Analog In/ 4 Analog Out Module, or 8 Analog In Module

EZPLC offers true versatility when it comes to Analog I/O modules. Analog modules are available in 8AI or 4AI/4AO in either 0-5, 0-10 voltage range or 0-20, 4-20 mA range.



3 Better Accuracy

EZI/O's analog modules offer 12 bit resolution along with 0.2% Gain Error (GE) on AO and GE of ± 2 counts on AI modules. Compare that to DL06's 0.4% GE on AO and Gain Error of ± 4 on AI modules. That's 50% more accurate then DL06's analog module! Better accuracy on analog modules mean better precision and accuracy for your analog control process.

Head-to-Head for Analog Control

Features	EZAutomation EZPLC	DirectLOGIC DL06	Allen-Bradley MicroLogix 1200	Allen-Bradley MicroLogix 1500	GE Fanuc VersaMax Micro	Siemens S7-226
8 Analog voltage IN, 12 bit	8 Channel Analog In Module **$109**	2 of 4 Channel Analog Voltage Input **$230**	2 of 4 Channel In **$588**	2 of 4 Channel In **$928**	2 of 4 Channel In **$478**	2 of 4 Channel In **$312**
4 Analog voltage IN, 4 Analog voltage OUT, 12 bit	4 Channel Analog Out/ 4 Channel Analog In **$109**	2 of 4 In / 2 Out **$418**	2 of 2 In / 2 Out **$588**	2 of 4 In / 2 Out **$1222**	2 of 4 In / 2 Out **$478**	2 of 4 In / 1 Out **$712**

4 Direct Wiring to Common Analog Devices

EZPLC uses EZ-I/O modules with removable field terminal blocks and offers direct wiring to the most common analog devices in the market such as pressure transducers, panel meters, thermocouple inputs, proportional valves etc.

- 0-20 mA; 4-20 mA, DIP switch selectable
- 0-5V and 0-10V input and output ranges, DIP switch selectable









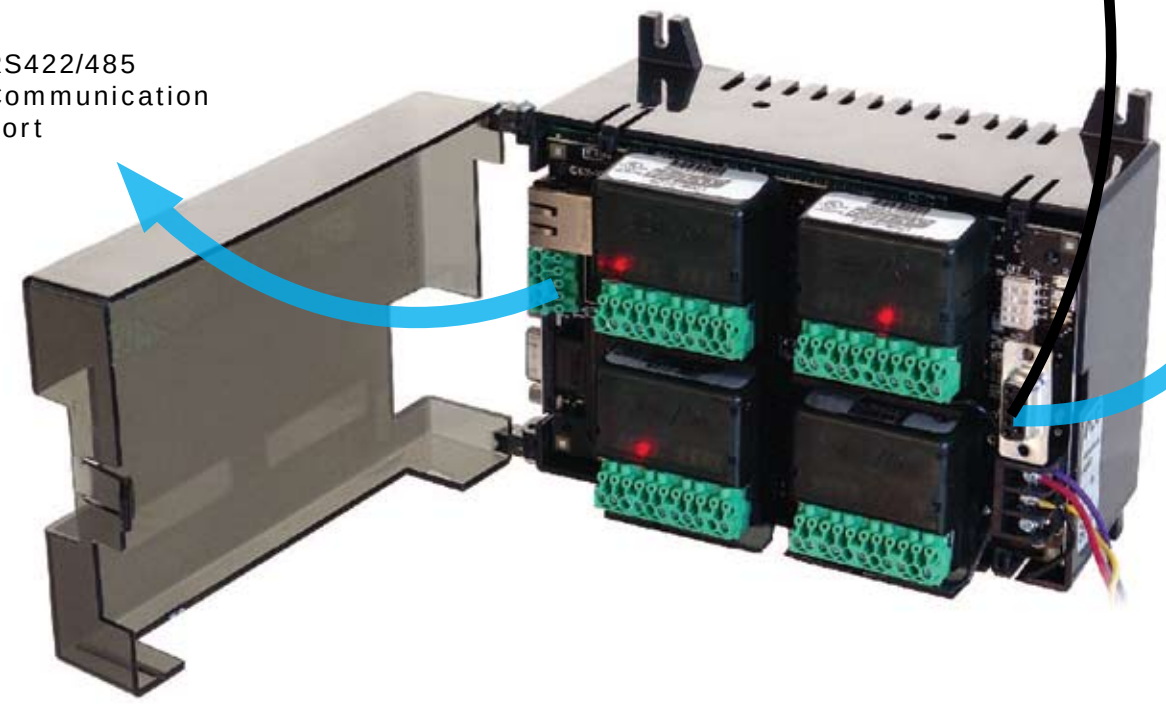


5 Practical Built-In Communications

EZPLC has two built-in communication ports. Port 1 is capable of RS232 type of communications and can be used for programming the EZPLC and connecting to EZSeries Touchpanel/Textpanel operator interfaces. Port 2 is an RS422/485 communication port and can be used for networking to multiple EZMarquees, Bar code printers, Scanners, and ASCII type devices.

All the models of EZPLC are also available with Ethernet, DeviceNet Slave, and Profibus Slave DP connectivity to connect as a node on your existing control network. Reduce your hard wiring costs and take advantage of incredible cost savings for only $100 additional for Ethernet with EZ TCP/IP, Modbus TCP/IP, Ethernet IP protocols, DeviceNet, or Profibus connectivity.





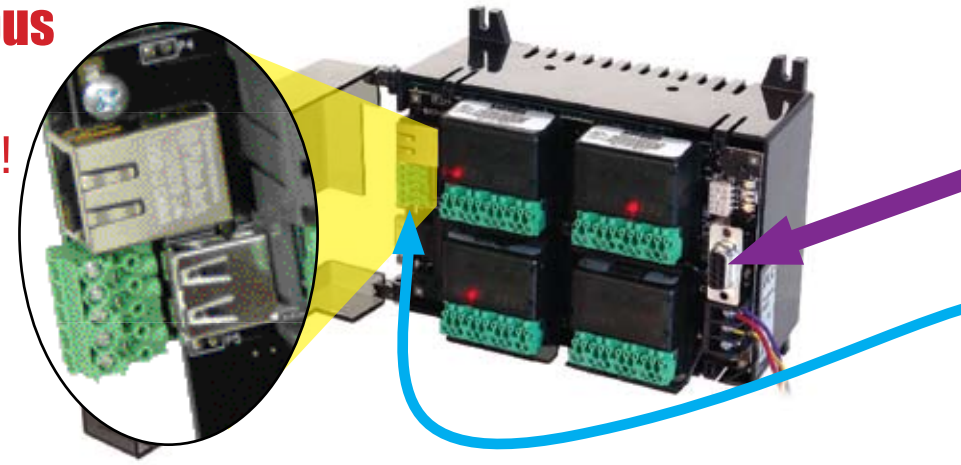
EZPLC™ Communication as Easy as 1-2-3

Top reasons to choose EZPLC for communication-enabled applications...

1 Ethernet TCP/IP, Modbus TCP/IP, Ethernet IP

Connectivity for $100!

Use EZPLC's enhanced base models for Ethernet connectivity for an unmatched $100. Ethernet port can also be used for programming the EZPLC thus leaving Port 1 and Port 2 free for other communication and networking needs. This offers the most flexible communication setup in Micro-PLC world at the most affordable prices! The Ethernet port has 3 protocols, EZ TCP/IP, Modbus TCP/IP and Ethernet IP.



2 Profibus Slave for $139!

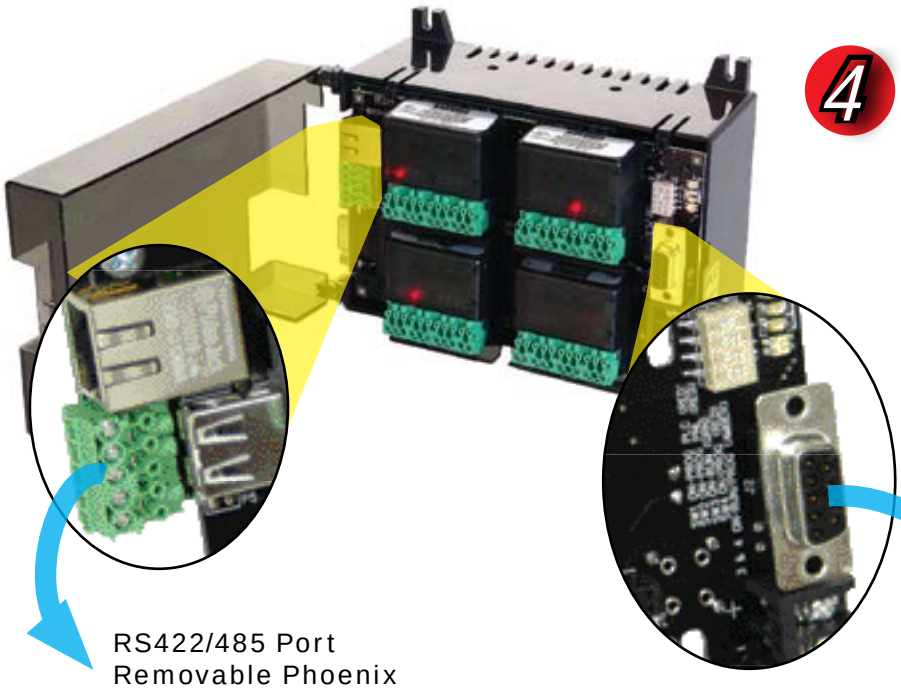
It's affordable than ever to add EZPLC to a Profibus controller network for just $139. Compare that to $259 for DL06 and $888 for MicroLogix 1500.

This add-on option card allows 244 byte of data exchange between Profibus master and EZPLC.

3 DeviceNet Slave for $79!

Reduce the hard wiring and add device level diagnostics to your control network with EZPLC's DeviceNet module for a mere $79.

This add-on option card allows 256 byte of data exchange between DeviceNet master and EZPLC.



4 2 Serial Communication Ports

The EZPLC has two serial communication ports for maximum flexibility. Port 1 is RS232 and can be used for programming of EZPLC and can also be used for communication to an operator interface. Port 2 has the same communication capabilities of many larger PLCs in a serial port which can be used to network AC drives or any other compatible device with multi-drop capability over RS422/485.





5 Use Programming Port (Port 1) to Connect to Operator Interface

Use Port 1 on EZPLC for programming and once you're done use the same Port 1 to connect to your EZSeries Touchpanel and Textpanel operator interfaces. This leaves your Port 2 free for any other communication needs including connection to an external device or networking. EZPLC is also programmable through Ethernet (Enhanced I/O Base).

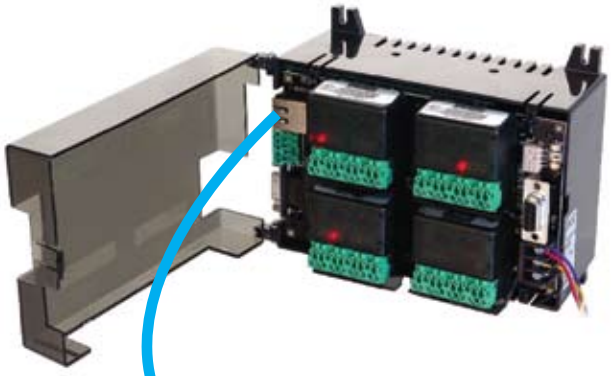




6 Use Port 2 to Connect Directly to ASCII Device(s)

Our EZPLC has built-in ASCII communication capability which allows you to connect to any compatible ASCII device in a seamless manner:

- Port 2 supports ASCII in or out on RS422/485
- Error detection bits on both ASCII in and out transactions
- Data rates from 1200 to 38.4 K
- Simple programming within ladder logic
- Time/date stamps in three formats
- Connect to barcode readers, weigh scales, or embedded controllers





7 Connect to EZMarquee on Port 2 or Ethernet

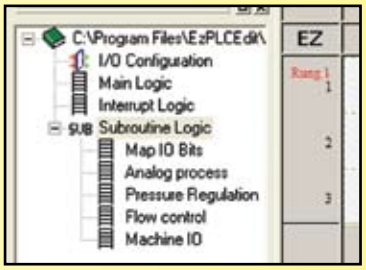
EZPLC's I/O base comes with a built-in Ethernet TCP/IP which can also be used for programming thus leaving both Port 1 (RS232) and Port 2 (RS422/485) for communication to other devices! The Ethernet port can be assigned standard IP address to be used with standard routers and switches.

You Have Seen Our Incredible Hardware!

Our Programming Software is Just as Good,

Especially at $49.00

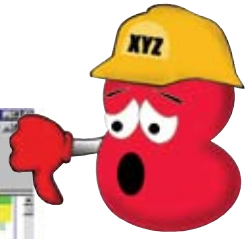
EZSeries PLC Editor has Windows type Folder organization for Quick EZ Search just like RSLogix and other high end programming software that costs thousands of dollars. The EZSeries PLC Editor has a structured programming software. You do not have to scroll through literally hundreds of rungs to find your I/O mapping, subroutines or interrupts.



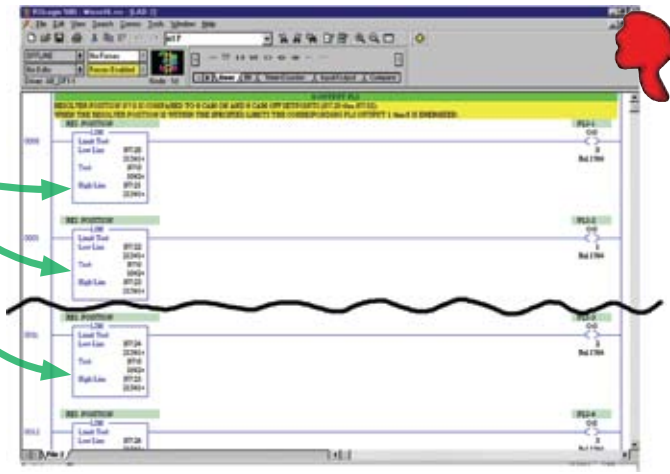
Unique Patent Pending Free Flow Logic ... *Innovate'n'Save™*

Let's take an 8 PLS output programming and ladder logic example

THEIRS



12 Rungs and Lots of Wasted Space

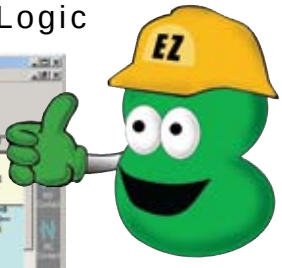


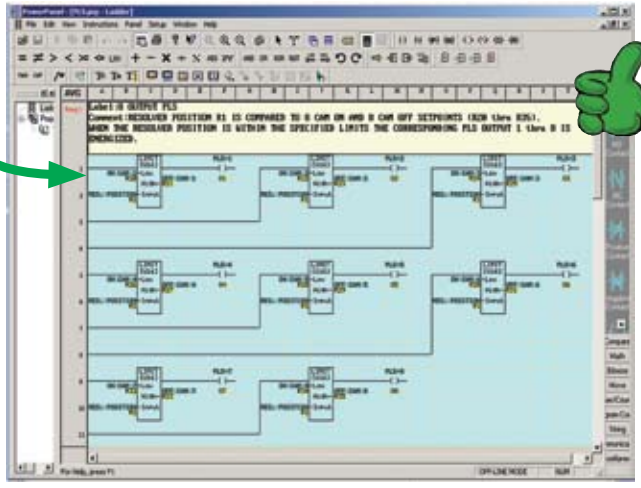
Other editors require you to generate one rung per output instruction requiring you to fill up many pages with ladder logic.



Just One Rung!

EZSeries PLC Free Flow Ladder Logic





The concept of this patent pending Free Flow Ladder Logic is to create less restricted rungs of logic. This saves the user rung space and valuable scan time. On the right you will see an example of Free Flow Ladder-Logic. As you can see the Free Flow logic allows logic to be placed and connected anywhere in the rung rather than creating a new rung. This allows the user to spend more time on other parts of the machine development and let the CPU do more of the work of solving the logic.

EZMarquee is *Even EZier* to Use with EZPLC

EZPLC has a "send Marquee Message" instruction that allows messages to be easily programmed and stored in the EZPLC.

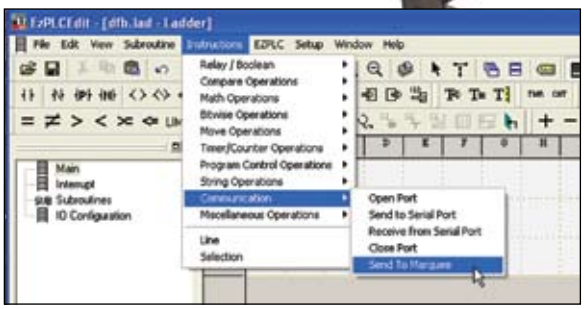
NO need to generate ASCII Strings, it's AUTOMATIC!



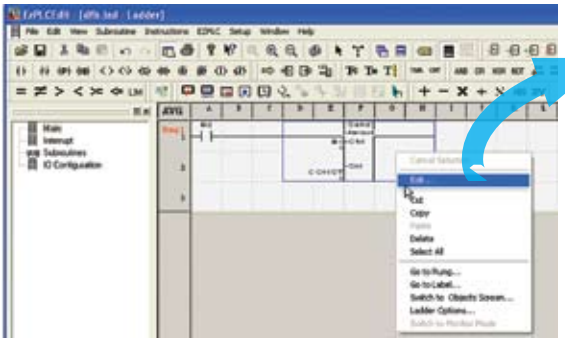
EZPLC has an RS422/485 port and an Ethernet port that can be connected to the corresponding port on the EZMarquee.

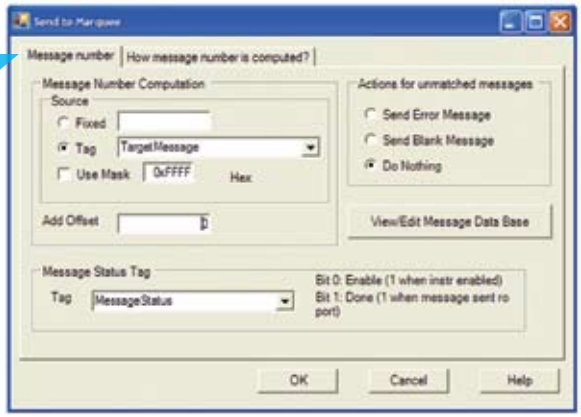
In addition, message programming and storage is much EZier as EZPLC has been designed from ground up to easily communicate with marquees.

1 **Use EZPLC's "Send to Marquee" instruction to initiate communication with EZMarquee.**



2 **Configure your message's source tag and status tag.**





3 **Control your message attributes without ever having to worry about ASCII format**



Type in your message along with it's attributes like character size, color, and effects like scrolling or blinking. Preview the message to edit any changes.

The More We Study the Competition, the More We are Convinced that EZPLC is Truly the Most SENSIBLE Micro Modular PLC Ever Built!

You Be the Judge!

Let's Configure a PLC System with a Total of 48 I/O, 24 VDC Power

- *16 DC In*
- *12 DC Out*
- *8 AC In*
- *4 AC Out*
- *4 Analog In*
- *4 Analog Out*
- *High Speed Counter at 30 Khz*
- *Ethernet*

Now this is not a very taxing PLC requirement by any standard!

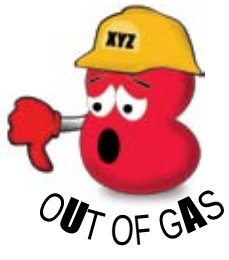
MicroLogix runs out of gas at about 50 I/O!



MicroLogix 1200

Part Number	Description	Price
1762-L40 BXB	24VDC In; 8(FET) Out; 8 Relay Out DC Power	*$649*
1762-OB16	16 Point; 24VDC Out	*$206*
1762-IA8	8 Point; AC In	*$139*
1762-OA8	8 Point; AC Out	*$180*
1762-IF2OF2	2 Analog In / 2 Analog Out	*$294*
1762-IF2OF2	2 Analog In / 2 Analog Out	*$294*
1761-NET-ENI	RS232 - Ethernet-IP Communication Interface	*$650*

Only 20 KHz Encoder No more slots open



$2382

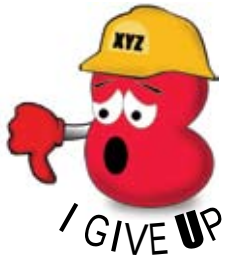
DL06 is unable to handle all 48 I/O



ADC DL06

Part Number	Description	Price
DO-06DD2-D	RO DC In; 16 DC Out DC Power	*$199*
FO-2AD2DA-2	2 Analog In, 2 Analog Out	*$149*
FO-2AD2DA-2	2 Analog In, 2 Analog Out	*$149*
HO-CTRIO	High Speed Counter	*$189*
HO-ECOM	Ethernet	*$169*

Oops! No I/O Space Available for AC I/O



JUST CAN'T DO IT!

Even DL205 has all 9 slots tied up for just 48 I/O



DL205: D2-260 Processor

Part Number	Description	Price
D2-09BDC1-1	9 slot Base; 12/24 VDC Power Supply	***$195***
H2-CTRIO-M	High Speed Counter	***$279***
H2-ECOM	Ethernet	***$275***
D2-260	CPU, 304K Memory	***$299***
D2-16ND3-2	16 Point 24VDC In	***$79***
D2-16TD2-2	16 Point 12/24 VDC Out	***$82***
D2-08NA-1	8 Point 110VAC In	***$65***
D2-08TA	8 Point 18-220 VAC Out	***$95***
F2-4AD2DA	4 Analog In, 2 Analog Out	***$279***
F2-02DA-1	2 Analog Out	***$152***



Even DL205 has all 9 slots tied up for just 48 I/O!

$1800

And Here is the EZPLC



Part Number	Description	Price
EZPLC-D-64E	Enhanced Ethernet 64 I/O Max 12/24 VDC Power	***$287***
EZIO-4HSCM1	High Speed Counter	***$99***
EZIO-8DCI	8 Point DC In	***$22***
EZIO-8DCI	8 Point DC In	***$22***
EZIO-8DCOP	8 Point DC Out	***$22***
EZIO-8DCOP	8 Point DC Out	***$22***
EZIO-8ACI	8 Point AC In	***$34***
EZIO-8ACO	8 Point AC Out	***$34***
EZIO-4ANI4ANOV	4 A In / 4 A Out	***$109***



$651







Innovate'n'Save™

You can get 4 EZPLCs for the price of one DL205

Let's Configure a PLC System with a Total of 32 I/O, 24 VDC Power

- *16 DC In*
- *8 DC Out*
- *24K Memory*
- *1000 Registers*
- *4 Analog In*
- *4 Analog Out*
- *6 Autotune PID loops*
- *3ms Scantime*
- *Remote Connectivity*

Exceeds DL205 performance at 1/4th the Cost

WOW!



EZPLC $366





DL205: D2-260 Processor

$1544



Part Number	Description	Price
EZPLC-D-32	32 I/O Max 12/24 VDC Power	***$122***
2@EZIO-8DCI	8 Point DC In	***$44***
EZIO-8DCO	8 Point; DC Out	***$22***
EZIO-4ANI4ANO	4 Analog In / 4 Analog Out	***$109***
EZ-PLC-EDIT	Programming Software	***$49***
EZ-PGMCBL	Programming Cable	***$20***

Part Number	Description	Price
D2-260	CPU, 304K Memory	***$299***
D2-16ND3-2	16 Point; DC In	***$82***
D2-08TD2	8 Point; DC Out	***$52***
F2-04AD-1	4 Analog In	***$229***
F2-02DA-1	2 Analog Out	***$312***
D2-06BDC1-1	6 Solt Base 12/24VDC Power Supply	***$175***
PC-DSOFT5	Programming Software	***$395***
D2-DSCBL	Programming Cable	***$30***

4 EZPLCs for one DL205

Exceeds CompactLogix performance at Less than 1/10th the Cost



EZPLC $297





CompactLogix

$3011



Part Number	Description	Price
EZPLC-D-32	32 I/O Max 12/24 VDC Power	***$122***
2@EZIO-8DCI	8 Point DC In	***$44***
EZIO-8DCO	8 Point; DC Out	***$22***
EZIO-4ANI4ANO	4 Analog In / 4 Analog Out	***$109***

Part Number	Description	Price
1769-L20 Processor	CPU; 64K Memory	***$830***
Digital I/O	16 Point; DC In	***$758***
Analog I/O	4 Point; Analog In	***$1,392***
1769-ECR Misc	Expansion Cable	***$31***

10 EZPLCs for one CompactLogix PLC

NOTE: We did not include in this comparison because that would make it even more outrageous.

You also get 2 EZPLCs for the Price of one DL06

Let's Configure a simpler PLC System with just 32 I/O

- *16 DC In*
- *8 DC Out*
- *4 Analog In*
- *4 Analog Out*

Exceeds DL06 performance at Half the Cost



$366



EZPLC

Part Number	Description	Price
EZPLC-D-32	32 I/O Max 12/24 VDC Power	*$122*
2@EZIO-8DCI	8 Point DC In	*$44*
EZIO-8DCO	8 Point; DC Out	*$22*
EZIO-4ANI4ANO	4 Analog In / 4 Analog Out	*$109*
EZPLC-EDIT	Programming Software	*$49*
EZ-PGMCBL	Programming Cable	*$20*



$994

ADC DL06

Part Number	Description	Price
D0-06DD1-D	16 DC In; 8 DC Out DC Power	*$199*
2@F0-4AD2DA-1	4 Analog In / 2 Analog Out	*$185*
PC-DSOFT5	Programming Software	*$395*
D2-DSCBL	Programming Cable	*$30*

2 EZPLCs for one DL06 *WOW!*

Exceeds MicroLogix Performance at Less than 1/5th the Cost



$466



EZPLC

Part Number	Description	Price
EZPLC-D-32-E	Enhanced Ethernet 32 I/O Max 12/24 VDC Power	*$222*
2@EZIO-8DCI	8 Point DC In	*$44*
EZIO-8DCO	8 Point; DC Out	*$22*
EZIO-4ANI4ANO	4 Analog In / 4 Analog Out	*$109*
EZPLC-EDIT	Programming Software	*$49*
EZ-PGMCBL	Programming Cable	*$20*



$2261

MicroLogix 1100



Part Number	Description	
1763-L16BBB	24VDC In; 2(FET) Out; 6 Relay Out DC Power	*$550*
1763-MM1	Memory Module	*$150*
1763-NC01	DH485 - 8 pin Communication Interface	*$40*
1762-IQ16	16 Point; DC In	*$176*
1762-OB8	8 Point; DC Out	*$149*
1762-IF2OF2	2 Analog In / 2 Analog Out	*$608*
9324-RLT100-EN-E	Programming Software	*$529*
1761-CBL-PM02	Programming Cable	*$59*

5 EZPLCs for one **Micro Logix PLC**

Innovate'n'Save™

EZPLC™ Head to Head System Comparison

Two EZPLCs For The Price Of One DL06!

Four EZPLCs For The Price Of One AB And Other PLCs!

16 Digital In / 8 Digital Out; 4 Analog In / 4 Analog Out - DC Power (32 I/O System)

	EZAutomation EZPLC	DirectLOGIC DL06	Allen-Bradley MicroLogix 1200	Allen-Bradley CompactLogix 5320	Versamax Micro
Base	EZPLC-D-32 - $122	D0-06DD2-D - $229	1762-L40BXB - $649	1769-L20 - $830	IC200UDD110 - $291
Digital I/O	EZIO-8DCI - 2@$44 EZIO-8DCO - $22		1762-IF2OF2 - $294	1769-IQ16 - $227 1769-OV16 - $273	
Analog I/O	EZIO-4ANI4ANO - $109	F0-2AD2DA-2 - 2@$149	1762-IF2OF2 - $294	1769-IF4XOF2 - $556 1769-OF2 - $464	IC200EX626 - 2 @ $258
Misc.				1769-ECR - $31 1769-PB2 - $258	
Total Price:	$297	$497	$1,237	$2,639	$807

12 Digital In, 4 Digital Out, 4 Analog In, 4 Analog Out with High Speed Counter & Profibus - DC Power (24 I/O + Counter & Profibus)

	EZAutomation EZPLC	DirectLOGIC DL06	Allen-Bradley MicroLogix 1200	Allen-Bradley CompactLogix 5320	Versamax Micro
Base	EZPLC-D-32 - $122	D0-06DD2-D - $229			
Digital I/O	EZIO-8DCI - $22 EZIO-4DCI4DCO - $22				
Analog I/O	EZIO-4ANI4ANO - $109	F0-2AD2DA-2 - 2@$149			
Counter	EZIO-HSCM - $99	H0-CTRI0 - $189			
Profibus	EZIO-PROFIBUS - $139	H0-P3CM - $259	NO PROFIBUS AVAILABLE!	NO PROFIBUS AVAILABLE!	NO PROFIBUS AVAILABLE!
Misc.					
Total Price:	$513	$945			

16 Digital In / 12 Digital Out; 8 AC In / 4 AC Out; 8 Analog In / 8 Analog Out with High Speed Counter & Ethernet - DC Power (56 I/O + Counter & Ethernet)

	EZAutomation EZPLC	DirectLOGIC DL06	Allen-Bradley MicroLogix 1200	Allen-Bradley CompactLogix 5320	Versamax Micro
Base	EZPLC-A-64E - $309			1769-L32E - $2,704	
Digital I/O	EZIO-8DCI - 2@$22 EZIO-8DCO - 2@$22			1769-IQ16 - $227 1769-OV16 - $273	
Analog I/O (12 bit resolution)	EZIO-8ANI - $109 EZIO-8ANO - $109			1769-IF8 - $742 1769-OF8 - $1391 (14 bit resolution)	
AC I/O	EZIO-8ACI - $34 EZIO-8ACO - $34			1769-IA8I - $242 1769-OA8 - $268	
Counter	EZIO-HSCM - $99	DL06 is unable to handle this much I/O and is out of module space!	MicroLogix 1200 is unable to handle this much I/O and is out of module space!	1769-HSC - $850	Versamax Micro is unable to handle this much I/O and is out of module space!
Ethernet				Embedded in base	
Misc.				1769-ECL - $41 1769-PB4 - $427	
Total Price:	$782			$6,646	

You can get 9 EZPLCs for the price of 1 CompactLogix 5320

to handle just 56 I/O!

Head to Head System Comparison

8 Digital In; 4 AC In / 4 AC Out; 4 Relay Out; 4 Analog In / 4 Analog Out - AC Power (28 I/O System)

	EZAutomation EZPLC	DirectLOGIC DL06	Allen-Bradley MicroLogix 1200	Allen-Bradley CompactLogix 5320	Versamax Micro
Base	EZPLC-A-32 - $139	D0-06AA - $259	1762-L24AWA - $464	1769-L20 - $830	IC200UAR028 - $362
Digital I/O	EZIO-8DCI - $22		1762-IQ8 - $134	1769-IQ16 - $227	IC200UEX209 - $291
Analog I/O	EZIO-4ANI4ANO - $109	F0-2AD2DA-2 - 2@$149	1762-IF2OF2 - $294 1762-IF2OF2 - $294	1769-IF4 - $464 1769-OF2 - 2@$464	IC200UEX636 - 2@$278
AC I/O	EZIO-4ACI4ACO - $34	F0-08NAT - $47	1762-IA8 - $139 1762-OA8 - $180	1769-IA8 - $242 1769-OA8 - $268	
Relay Out	EZIO-4RLO - $39	NO RELAY OUT	Embedded in base	1769-OW8 - $201	
Misc.				1769-ECR - $31 1769-PA2 - $258	
Total Price:	$343	$604	$1,505	$3,449	$1,209

4 Digital In / 4 Digital Out; 8 AC In / 8 AC Out with High Speed Counter and DeviceNet - AC Power (24 I/O System + Counter & DeviceNet)

	EZAutomation EZPLC	DirectLOGIC DL06	Allen-Bradley MicroLogix 1200	Allen-Bradley CompactLogix 5320	Versamax Micro
Base	EZPLC-A-32 - $139	D0-06AA - $259	1762-L24BWA - $391	1769-L20 - $830	
Digital I/O	EZIO-4DCI4DCO - $22	D0-10ND3 (DC In) - $42	1762-OB8 - $144	1769-IQ16 - $227 1769-OB16 - $299	
AC I/O	EZIO-8ACI - $34 EZIO-8ACO -$34	DC-10TD1 (DC Out) - $49	1762-IA8 - $139 1762-OA8 - $180	1769-IA8 - $242 1769-OA8 - $268	
Counter	EZIO-HSCM1 - $99	H0-CTRIO - $189	Embedded @ 20 KHz	1769-HSC - $850	
DeviceNet	EZRIO-DEVICENET - $79	D0-DEVNETS - $79	1761-NET-DNI - $256	1769-ADN - $510	NO DEVICENET!
Misc.				1769-ECR - $31 1769-PA4 - $427	
Total Price:	$407	$618	$1,110	$3,684	

16 Digital In / 12 Digital Out; 8 AC In / 4 AC Out; 8 Analog In / 8 Analog Out with High Speed Counter - DC Power (56 I/O + Counter)

	EZAutomation EZPLC	DirectLOGIC DL06	Allen-Bradley MicroLogix 1200	Allen-Bradley CompactLogix 5320	Versamax Micro
Base	EZPLC-D-64 - $187			1769-L20 - $830	
Digital I/O	EZIO-8DCI - 2@$22 EZIO-8DCO - 2@$22			1769-IQ16 - $227 1769-OB16 - $299 1769-PB2 - $258	
Analog I/O	EZIO-4ANI4ANOV - 2@$109			1769-IF8 - $742 1769-OF8 - $1391	
AC I/O	EZIO-8ACI - $34 EZIO-8ACO - $34	DL06 is unable to handle this much I/O and is out of module space!	MicroLogix 1200 is unable to handle this much I/O and is out of module space!	1769-IA8 - $242 1769-OA8 - $268	Versamax Micro is unable to handle this much I/O and is out of module space!
Counter	EZIO-HSCM1 - $99			1769-HSC - $850	
Misc.				1769-ECR - $31	
Total Price:	$660			$5,307	







HALT/HASS certified PLC with EZ Software, 30-day Guarantee @ 1/2 to 1/8th the price!



Modularity Reduces Part Numbers and Costs

16 AC In/8 AC Out

THEIRS



Total $870

1762-L40AWA - $690
24 AC In/16 Relay Out

1762-0A8 - $180
8-pt. AC Out

EZPLC

EZIO-8ACI
$34
8 AC In

EZIO-8ACI - $34
8 AC In



Total $241

EZIO-8ACO
$34
8 AC Out

EZPLC-A-32
$139
32 I/O Base

16 DC In/8 DC Out

THEIRS



Total $788

1762-L40BWA - $664
24 DC In/16 Relay Out

1762-0B8 - $144
8-pt. DC Out

EZPLC

EZIO-8DCI
$22
8 DC In

EZIO-8DCI
$22
8 DC In



Total $205

EZPLC-A-32
$139
32 I/O Base

EZIO-8DCO
$22
8 DC Out

16 DC In/12 AC Out

THEIRS



Total $844

1762-L40BWA - $664
24 DC In/16 Relay Out

1762-OA8 - $180
8-pt. AC Out

1762-OA8 - $180
8-pt. AC Out

EZPLC

EZIO-8DCI
$22
8 DC In

EZIO-8DCI
$22
8 DC In



Total $251

EZPLC-A-32
$139
32 I/O Base

EZIO-8ACO - $34
8 AC Out

EZIO-8ACO - $34
8 AC Out

16 DC In, 4 AC In/8 DC Out, 4 AC Out

THEIRS



Total $1168

1762-L40BWA
$664
24 DC In/16 Relay Out

1762-IA8
$180
8-pt. AC In

1762-OB8
$144
8-pt. DC Out

1762-OA8
$180
8-pt. AC Out

EZPLC

EZIO-8DCI
$22
8 DC In

EZIO-8DCI
$22
8 DC In



Total $239

EZPLC-A-32
$139
32 I/O Base

EZIO-4ACI4ACO
$34
4 AC In, 4 AC Out

EZIO-8DCO
$22
8 DC Out

Reduce parts inventory from 37% to 75%!

EZPLC™ Powerful Ladder Logic Instructions

SORRY! We don't have the 229 instructions of DL06 or 225 instructions of D2-260, but our 55 EZPLC instructions are more than adequate, and for some, less confusing, to do the job while saving you major $$!

You be the judge!

Advanced Instructions:

32-bit floating point calculations

The EZPLC supports 32-bit floating point mathematical and logical operations. The data options allow you to use signed or unsigned integer data as well as floating point data type.

Data Conversion

This instruction is meant to make ladder programming EZ and flexible. You can copy the data in one register, convert its data type and save it into another register without altering the 'source' register. The data can be converted from binary to BCD or grey code or vice versa.

Move Block

This instruction adds convenience to handling data inside the ladder program. You can move blocks of memory. All you need to specify is starting point of your source address, number of data elements to move and starting point of destination memory address. Along with Move Block, Fill Block and Move table of Constants also make life of a programmer much simpler.

String

These instructions operate on ASCII string data type. You can Move string data between registers, base rung power flow upon string comparison and compute string length to store the length value in a different register.

Subroutines

Capability to use subroutines is a huge plus in EZPLC programming. For large and complex programs, user can define many subroutines and use them in the main ladder program. These subroutines can be called from the main logic. Return instruction allows user to return to the main logic at any step.

Drum Sequencer

This is a time or event based sequencer that updates up to 16 outputs per step, up to 16 steps. Time base of each count is user defined and each step has its own counter. User can define an event to trigger the count. The rung power flow is allowed after completion of all the steps in a drum.

Marquee Instructions

Now you don't have to spend days to send signals to your marquee. Send to marquee instruction allows you to communicate to the marquee via ASCII strings. A unique message number is assigned to each message in the message database. This instruction looks up the message number, corresponding to the intended message to be displayed and sends it to the marquee. User can define actions if a message number cannot be found in the database.

Interrupt Routine

This is how your EZPLC would process external events that require "instantaneous" response. User can write a separate interrupt logic routine. At the instance of an external event, the PLC would interrupt the main logic, execute this interrupt logic on a priority, and scan corresponding I/O. It would return to the main logic automatically after processing the interrupt routine.

ASCII Instructions

User can send/receive ASCII string data to/from any register in PLC to a predefined serial port. User can also define the Control address and character count of the source register. Similarly, user can send ASCII string data to a Marquee directly from the main logic.

Bit Move Instructions

Bit move instructions allow the user to move word data from a register type memory address to a bit in a discrete memory location and backward.





EZPLC™

PLC Programming

Rich Instruction Set

Relay/Boolean Instructions

- NO Contact
When the corresponding memory bit is a 1 (on) it will allows power flow through this element
- NC Contact
When the corresponding memory bit is a 0 (off) it will allow power flow through this element
- Positive Transition
When the corresponding memory bit switches from 0 (off) to 1 (on) it will allow power flow through this element
- Negative Transition
When the corresponding memory bit switches from 1 (on) to 0 (off) it will allow power flow through this element
- NO Coil
Sets the corresponding memory bit to 1 (on)
- NC Coil
Sets the corresponding bit to 0 (off)
- Set Coil
Sets the corresponding bit to 1 (on) and remains On even if the rung condition goes to false (use RESET COIL instruction to turn the corresponding bit Off)
- Reset Coil
Sets the corresponding bit to 0 (off) and remains off even if the run condition becomes false (use SET COIL instruction to turn the corresponding bit Off)
- NO Immediate Input
When the corresponding memory bit is a 1 (on) it will allow power flow through this element. The NO Immediate Input is updated immediately with the current memory Bit status when processed in the program scan
- NC Immediate Input
When the corresponding memory bit is a 0 (off) it will allow power flow through this element. The NC Immediate input is updated immediately with the current memory Bit status when processed in the program scan
- NO Immediate Output
Sets the corresponding memory bit to 1 (on). The NO Immediate Output Bit status is updated immediately when processed in the program scan
- NC Immediate Output
Sets the corresponding memory bit to 0 (off). The NC Immediate Output Bit status is updated immediately when processed in the program scan

Compare Instructions

- Equal to
Allows power flow through this element if the data value of "Opr1" register is Equal to "Opr2" register
- Not Equal to
Allows power flow through this element if the data value of "Opr1" register is NOT Equal to "Opr2" register
- Greater than
Allows power flow through this element if the data value of "Opr1" register is Greater Than "Opr2" register
- Less than
Allows power flow through this element if the data value of "Opr1" register is Less Than "Opr2" register
- Greater than or Equal to
Allows power flow through this element if the data value of "Opr1" register is Greater Than or Equal to "Opr2" register
- Less than or Equal to
Allows power flow through this element if the data value of "Opr1" register is Less Than or Equal to "Opr2" register
- Limit
Allows power flow through this element if the data value of "Input" register is within the data values of "High Limit" and "low Limit" registers

Math Instructions

- Add
Adds two data values in "Opr1" and "Opr2" registers and stores the result in "Result" register
- Subtract
Subtracts "Opr2" register data value from "Opr1" register data value and stores the result in "Result" register
- Multiply
Multiplies two data values in "Opr1" and "Opr2" registers and stores the result in "Result" register
- Divide
Divides "Opr1" register data value by "Opr2" register data value and stores the result in "Result" register
- Modulo
Divides "Opr1" register data value by "Opr2" register data value and stores only the remainder in "Result" register
- Absolute
Converts a negative data value from "Opr1" register to a positive value and stores it in "Result" register
- Conversion
Copies the data value of "Opr" register, converts it into "Result" registers data type, and stores the data value in "Result" register
- Binary Conversion
Converts the data value of "Source" register in Binary, BCD, or GRAY code to the data value of "Result" register in Binary, BCD or GRAY Code

Bitwise Instructions

- AND
Performs a bitwise AND operation between the data values of two registers "Opr1" and "Opr2". The result is stored in "Result" register
- OR
Performs a bitwise OR operation between the data values of two registers "Opr1" and "Opr2". The result is stored in "Result" register
- XOR
Performs a bitwise XOR operation between the data values of two registers "Opr1" and "Opr2". The result is stored in "Result" register
- NOT
Performs a bitwise NOT operation on the data value of "Source" register and stores the result in "Destination" register
- Shift Left
Performs a logical Shift Left on the data value of "Opr1" register by the data value of "Opr2" register and stores the result in "Result" register
- Shift Right
Performs a logical Shift Right on the data value of "Opr1" register by the data value of "Opr2" register and stores the result in "Result" register
- Rotate Left
Performs a logical Rotate Left on the data value of "Opr1" register by the data value of "Opr2" register and stores the result in "Result" register
- Rotate Right
Performs a logical Rotate Right on the data value of "Opr1" register by the value of "Opr2" register and stores the result in "Result" register

Move Instructions

- Move Data
Moves data value of "Source" register to "Destination" register
- Bit Move
Moves either words to bits or bits to words with user-specified length for the number of words to move. Maximum of 16 words can be moved at a time
- Move Block
Moves a block of memory area. "Source" register defines the starting area of memory address/register to Move from and "Destination" register defines the starting area of memory address/register to move to. The number of elements to move is user defined
- Block Fill
Fills a block of memory area. "Source" register defines the data value to Fill with and "Destination" register defines the starting area of memory address/register to Fill to. The number of elements to move is user defined. The number of elements to Fill is user defined
- Move Table of Constants
Loads a table of user defined constants to a consecutive memory/register locations with the starting memory address/register location defined by "Destination" register

Timer/Counter Instructions

- Timer
This instruction starts timing when called and once it reaches the preset value as defined by the data value of "Timer Preset Value" register, it will stop timing and will allow power flow through the element
- Counter
This instruction starts counting either Up or Down by the increments of one until the counter reaches the data value of "Counter Preset Value" register. The Counter will then allow power flow through the element

Program Control Instructions

- Jump
Skips the rung containing Jump instruction (after execution of the rung) to a rung with the label specified in the JUMP instruction and continues executing the program thereafter
- For Loop
Executes the logic between the FOR Loop and NEXT instructions by the data value of "Loop Count" register
- Next Statement
Specifies the return/end point for the FOR Loop instruction
- Call Subroutine
Calls a Subroutine specified by the label in CALL Subroutine instruction and is terminated by the RETURN instruction
- Return
Terminates a subroutine and returns back to the main logic

String Instructions

- String Move
Moves the data value (string type) of "Source" register to "Destination" register by the number of characters specified by the user
- String Compare
Allows power flow through this element if the data value (string type) of "Source1" register is Equal to "Source2" register by the number of characters specified
- String Length
Computes the length of a null-terminated "String" register (string type) and stores the result in "Save Length in" register

Communication Instructions

- Open Port
Opens the serial port for communication using the parameters specified by the user
- Send to Serial Port
Send an ASCII string data from "Source" register to the serial port with control and character count from user defined "Control Address" and "Character Count Address" registers respectively
- Receive From Serial Port
Receives an ASCII string data from serial port to "Source" register with control and character count from user defined "Control Address" and "Character Count Address" registers respectively
- Close Port
Closes the serial port opened for communication
- Send to Marquee
Sends ASCII instructions for marquee communication. The message to be displayed on a marquee is selected by the data value of "Message Number" register which looks up the message number for a corresponding message from the central message database. If message number is not found in the message database, user selected action for unmatched messages is done.

Miscellaneous Instructions

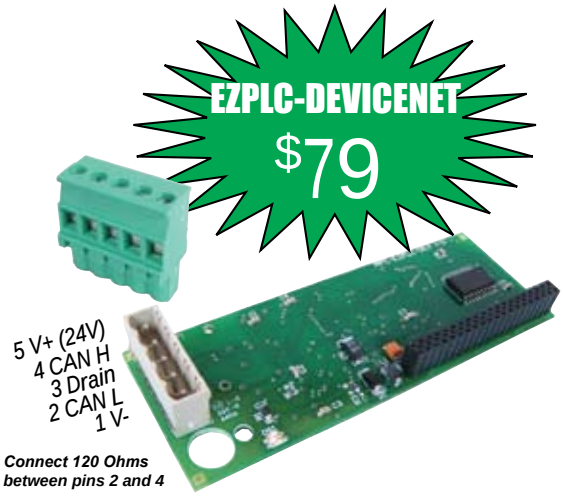
- Drum
Time and/or Event driven drum type sequencer with up to 16 steps and 16 discrete outputs per step. The outputs are updated during each step. Counts have a specified time base (1MSec to 1 Sec) and every step has its own counter along with an event to trigger the count. After the time expires for one step, it transitions to the next step and completes up to 16 steps total. After the completion of all the steps this element allows power flow through it

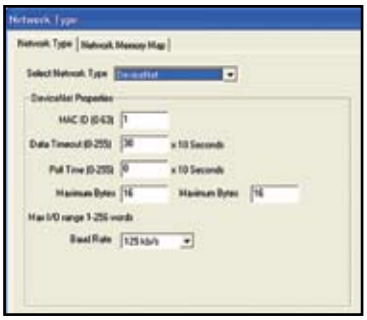
DeviceNet and Profibus Option Cards

DeviceNet

EZPLC-Devicenet option card can be installed on the back side of EZPLC's motherboard as described fully in the user manual. This option card ships with a standard 5 pin DeviceNet connector as shown to the right.

This option card allows EZPLC to become a slave node on a DeviceNet network. 256 bytes of data can be exchanged between the DeviceNet master and EZPLC in a predefined group to master/slave communication mode..





Network Size	Up to 64 Nodes
Network Length	Selectable end-to-end network distance varies with speed. 125 Kbps 500 m (1,640 ft) 250 Kbps 250 m (820 ft) 500 Kbps 100 m (328 ft)
Data Packets	0-128 words produced and consumed
System Features	Selectable end-to-end network distance varies with speed.

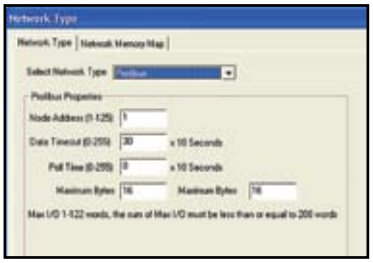
Type	Description of Operation
Polled	EZPLC DeviceNet communications card when configured for polled I/O will allow "output" data to be received from a master controller in the sequence pre-determined by a master controller. The polling rate of a network depends on the total number of nodes present on a network, baud rate, size of messages exchanged on the network, and the internal settings (timing) of a master controller. Polled DeviceNet I/O data can either be unicast or multicast.

Profibus

EZPLC-Profibus option card can be installed on the back side of EZPLC's motherboard as described fully in the user manual. This gives EZPLC the ability to link with the Profibus master controller. This communication interface provides the ability to transfer 244 bytes of data between a Profibus master and EZPLC. The Profibus communication interface has an auto-detect feature for the baud rate of the Profibus network.

The option card has a Profibus approved standard 9-pin D-sub female connector. You can plug any Profibus certified 9-pin male D-sub connector, such as ERNI 103658 or 103659, into this option card. Recommended cables are Belden 3079A or Siemens 6XV1 830 0AH10. Maximum network length depends on the frequency at which your Profibus network is operating. The EZPLC-Profibus option card can operate from 9.6 Kbps to 12Mbps as selected through the EZPLC programming software.





EZPLC Accessories

Part Number	Description	Price
EZPLC-EDIT	EZPLC Programming Software	$49
EZPLC-M	Hardware User Manual for EZPLC CPU and Base	$30
EZIO-M	Hardware User Manual for EZI/O Modules	$25
EZPLC-CM	Hardware User Manual for DeviceNet, Profibus and Ethernet options	$25
EZPLC-BAT	EZPLC Replacement Battery	$20
EZP-PGMCBL	Programming Cable	$20
EZIO-DUMMY	Dummy Module for Open Slots	$5
EZIO-TERM11	11 Pin Removable 3.5mm Phoenix Terminal Block	$5
EZPLC-TERM5	5 Pin Removable 3.5mm Phoenix Terminal Block	$4
EZPLC-DNTERM5	DeviceNet 5 Pin Field Terminal Block	$8

Switch Settings, Status Indicators and Connections

EZPLC Snap-in I/O

PLC Run/Program Set up

SW3	SW4	Tri-Color LED	Operation
1	0	Green	Run
0	1	Red	Program
1	1	Amber	Run/Program
0	0	Off	No Operation

Open = OFF = 0
Closed = ON = 1

RS232 Programming Port Enable Switch Set up

SW1	PLC LED	RUN LED	Connection
1	On	Off	RS232 port to PLC
0	Off	On	RS232 port disconnected (Set SW2 to 0 and this port will get disconnected when SW1 is 0)

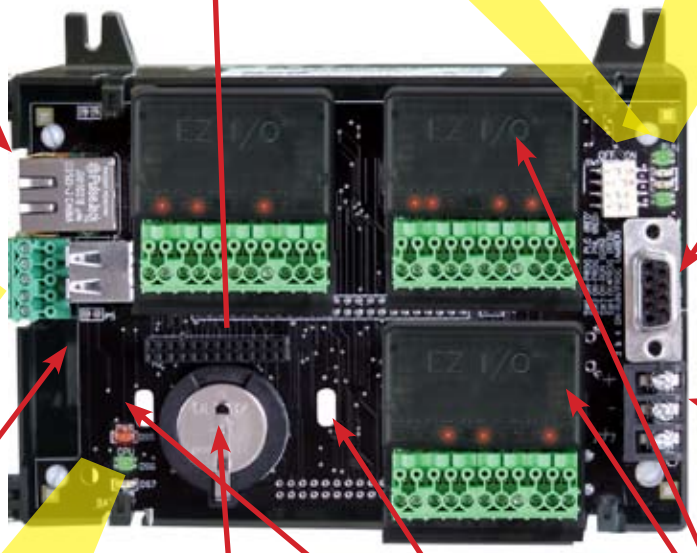


Port for I/O Module

Optional Ethernet connectivity

RS422/485 ASCII Port
Used to send ASCII instructions to other devices

SD-
SD+
RD+
RD-



RS232 Programming Port
Used to program PLC or TextPanel

Pin #	Function
2	TXD
3	RXD
5	Logic GND
Rest	NC

110 VAC or 24 VDC Power Input

3V Battery Included

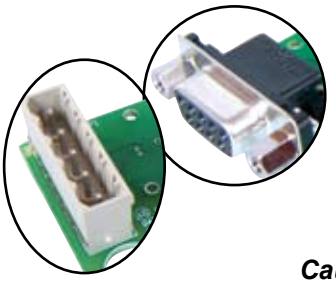


Power LED
CPU LED
Low Battery LED

Insert I/O Modules
Snapped into the two slots

Remove I/O Modules
Removed from the slots by pressing the two clips on the side of the module.

DeviceNet, Profibus
Optional Port





Back side of EZI/O module





Caution: Do not use AC output module in the bottom left slot due to height of the battery. Analog IN/OUT module can be used only on the first 4 slots. Other analog modules or High Speed counter module can be used only in the first ten slots.

Switch Settings, Status Indicators and Connections

EZPLC Plus Screw-down I/O

PLC Run/Program Set up

SW3	SW4	Tri-Color LED	Operation
1	0	Green	Run
0	1	Red	Program
1	1	Amber	Run/Program
0	0	Off	No Operation

Open = OFF = 0
Closed = ON = 1

RS232 Programming Port Enable Switch Set up

SW1	PLC LED	RUN LED	Connection
1	On	Off	RS232 port to PLC
0	Off	On	RS232 port disconnected (Set SW2 to 0 and this port will get disconnected when SW1 is 0)



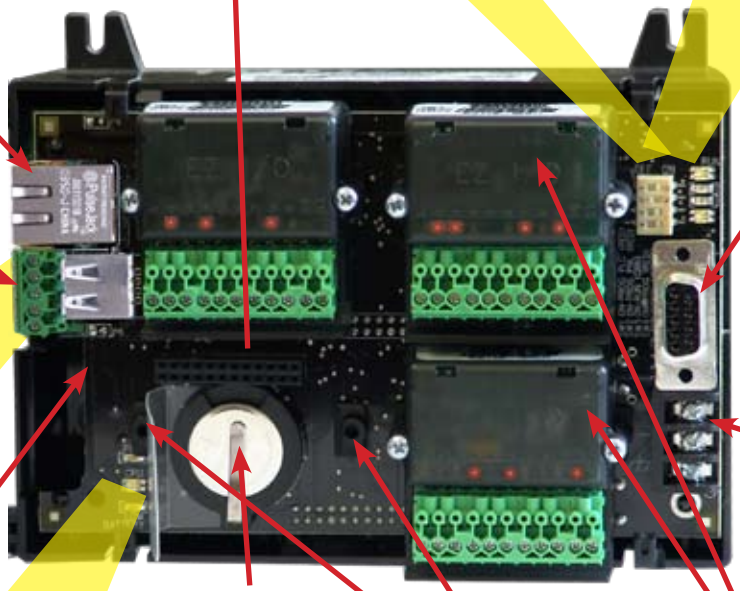


Port for I/O Module

Optional Ethernet connectivity

RS422/485 ASCII Port
Used to send ASCII instructions to other devices





RS232 Programming Port
Used to program PLC or TextPanel

Pin #	Function
2	TXD
3	RXD
5	Logic GND
Rest	NC

110 VAC or 24 VDC Power Input

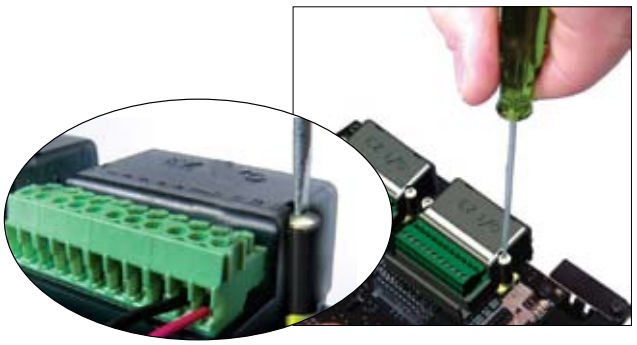
3V Battery Included

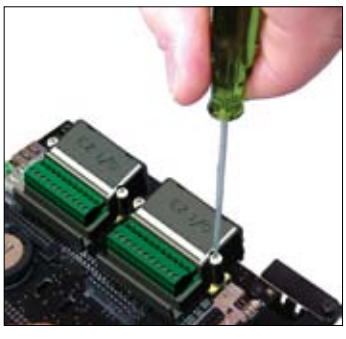


Power LED
CPU LED
Low Battery LED

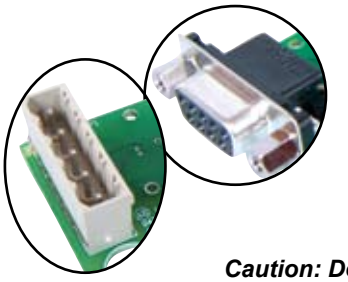
Insert I/O Modules
Screw-down two captive screws into the two threaded retainers on the base.

Remove I/O Modules
Remove by unscrewing the two captive screws on the sides of the module.





DeviceNet, Profibus
Optional Port



Caution: Do not use AC output module in the bottom left slot due to height of the battery. Analog IN/OUT module can be used only on the first 4 slots. Other analog modules or High Speed counter module can be used only in the first ten slots. Avoid excessive force while screwing down to avoid stripping.

Detailed Feature Comparisons to other PLCs *Innovate'n'Save™*

Features	EZAutomation EZSeries PLC	Automation Direct DL205	Automation Direct DL06	Allen Bradley MicroLogix 1100	Allen Bradley CompactLogix L200
Total program/Data Memory in each PLC	64K words	D2-260: 30.4K D2-250-1: 14.8K D2-240: 3.8K D2-230: 2.4K	14.8K words	8K words	64K words
Total I/O with Expansion	2048	D2-260: 16,384 D2-250-1: 2048 D2-240: 896 D2-230: 256	100	80	512
Modular I/O & CPU	YES	YES	NO	NO	YES
Removable Terminal block	YES	YES	YES	NO	YES
I/O Status LED Indicators	Next to each digital I/O terminal point	NO	NO	NO	NO
Operating Temperature	-10ºC to 60ºC	0ºC to 55ºC	0ºC to 55ºC	0ºC to 55ºC	0ºC to 55ºC
Integrated Communication Port	2	2	2	2	2
Integrated Networking Port	YES	YES	YES	YES	YES
Modbus RTU Master/Slave	YES	YES	YES	YES	YES
Modbus TCP/IP Master/ Slave	YES $00 option	NO	NO	NO	NO
PLC Size for 32 I/O, 2 Com Ports & Ethernet	4 Slot Base 5.75x4.868x3.124 inch	6 Slot Base 10.43x3.54x5.85 inch	Base+4 Expansion Modules 9.09x5x2.68 inch	Base+4 Expansion Modules 10.7x3.5x3.43 inch	15.3x3.5x3.43 inch
Panel Space per I/O Module	4 Sq inch and 4 cubic inch	4.32 Sq inch and 25.2 cubic inch	Apprx. 3 Sq inch and 8 cubic inch	5.5 Sq Inch and 18.8 cubic inch	7.2 Sq Inch and 24.6 cubic inch
Scan Time for 1K Instructions	3 ms Including Overhead	D2-260-1.9 ms D2-250-1:1.9 ms D2-240: 10-12 ms D2-230: 4-6 ms	Instruction time vary from 1µsec - 800µsec	2 ms + Overhead	2 ms + Overhead
Response Time to External Interrupt Time	60µsec screw-to-screw response from input to output	More than 2 ms	More than 5 ms	More than 5 ms	More than 2 ms
No of Interrupts	1 per 8 DC Inputs	1 per PLC	1 per PLC	4 per PLC	1 per Module
32 Bit Floating point Math	YES	YES	YES	YES	YES
Real-Time Clock Calender	YES	YES	YES	YES	YES
Autotuned PID Loops	8 , with exclusive PID Monitor in Excel	D2-260-16 D2-250-1:4 D2-240: NO D2-230: NO Check for the PID Monitor	8, Check for the PID Monitor	Multiple loops limited by program and stack memory	YES, Check for the PID Monitor
Short Circuit Proof DC Outputs	YES, ½ Amp each	NO	NO	NO	NO
User Program Stored in Flash	YES, Great protection against poor power source	D2-260- YES D2-250-1: NO D2-240: NO D2-230: NO	NO	NO	NO
Feature Upgrade in the Field	YES, Flash based Operating System	Need to change CPU	Need to change CPU	Need to change CPU	Need to change CPU
Ladder Programming	Easiest, Self Learn Drag-n-Drop	Almost like DOS	Almost like DOS	Need to attend 3 day class	Need to attend 3 day class
Software Cost & Licensing	Almost Free $49	$395	$395	Incredible $6800 + Annual maintenance cost	Incredible $6800 + Annual maintenance cost
Profibus slave Card	EZPLC-PROFIBUS - $139	H2-PBC - $269	H0-PSCM - $259	NA	NA
DeviceNet Slave Card	EZPLC-DEVICENET -$79	F2-DEVNETS-1 - $314	D0-DEVNETS - $79	NA	1769 - ADN - $535 for DeviceNet Adapter and 1769 -SDN -$772 for Devicenet Scanner
Program Storage Module	YES	YES	NO	NO	YES

Detailed Feature Comparisons to other PLCs *Innovate'n'Save™*

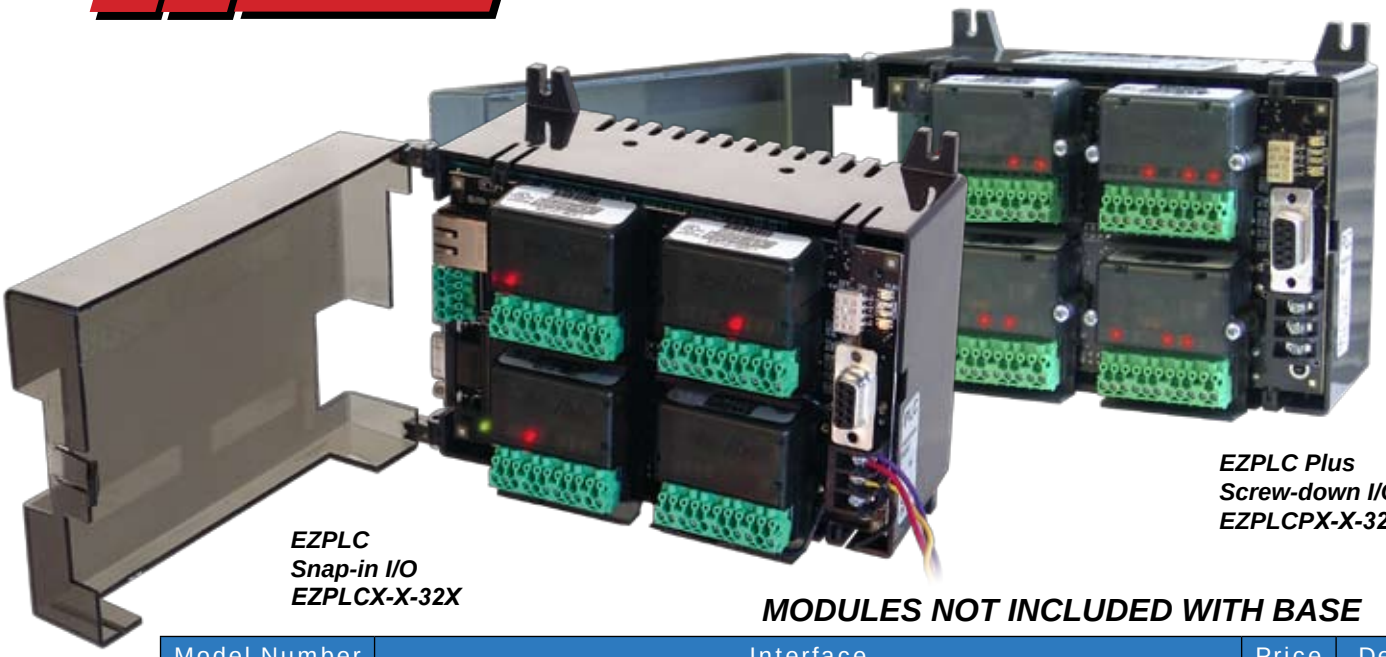
Features	EZAutomation EZSeries PLC	Automation Direct DL205	Automation Direct DL06	Allen Bradley MicroLogix 1100	Allen Bradley CompactLogix L200
Base with Power Supply	32 I/O Base - $122 48 I/O Base - $165 64 I/O Base - $187 96 I/O Base - $1319 (Including 16 DC In and 16 DC Out - $210) (All the above I/O bases include CPU and 2 COM Ports (1 RS - 232 and 1 RS 485/422))	(3 slot Base) D2-03BDC1-1 -$135 (4 slot Base) D2-04BDC1-1-$154 (6 slot Base) D2-06BDC1-1-$175 (9 slot Base) D2-06BDC1-1-$215 (All the above Models include 24VDC Power supply)	$199 for 20 In and 16 out (Includes 2 COM port and CPU)	1763-L16 $550 (Includes 6 DC In, 2 DC Out, 2 Relay out, 2 Analog In, 2 Analog Out,1 COM port and Ethernet / IP and CPU)	1769 -PB2 - $280 (Power supply, I/Os and CPU are seperate and are DIN rail Mounted)
CPU and COM Ports	32 I/O Base - $122 48 I/O Base - $165 64 I/O Base - $187 96 I/O Base - $1319 (Including 16 DC In and 16 DC Out - $210) (All the above I/O bases include CPU and 2 COM Ports (1 RS - 232 and 1 RS 485/422))	D2-260 - $299 (2 Serial Ports) D2-250-1 - $259 (2 Serial Ports) D2-240 - $199 (2 Serial Ports) D2-230 - $139 (1 Serial Port)	$199 for 20 In and 16 out (Includes 2 COM port and CPU)	1763-L16 $550 (Includes 6 DC In, 2 DC Out, 2 Relay out, 2 Analog In, 2 Analog Out,1 COM port and Ethernet / IP and CPU)	1769 -L20 -$1195
32 I/O System, 16 DI, 8 DO, 4 AI and 4 AO (Voltage) without Programming software	EZPLC-D-32 - $122 2@EZIO-8DCI - $44 EZIO-8DCO - $22 EZIO-4ANI4ANOC - $109 TOTAL - $297	D2-260 - $299 D2-16ND3-2 - $82 D2-08TD2 - $52 F2-04AD-1 - $199 2@F2-02DA-1 - $312 D2-06BDC1-1 - $175 TOTAL-$1119	D0-06DD1-D - $199 2@F0-4AD2DA-1 -$370 TOTAL - $569	1763-L16BBB $550 1763 -MM1-$150 1763-NC01-$40 1762-IQ16-$176 1762-0B8 - $149 1762-IF2OF2-$608 TOTAL-$1673	1769 -PB2 - $280 1769 -L20 -$1195 1769-IQ16 -$247 1769-OV16-$296 1769-0B8 - $149 1769-IF4OF2-603 1769-OF2- $504 TOTAL-$3125
Digital DC Input	EZIO-8DCI - $22 for 8 Points	D2-08TD1 - $52 for 8 Points	D0-10ND3 - $49 for 10 Points	1762-IQ8 - $146 for 8 Points	1769-iq16 - $247 for 16 Points
Digital DC Output	EZIO-8DCOP - $22 for 8 Points (Short ckt Proof)	D2-08TD1 - $52 for 8 Points	D0-10TD2 - $52 for 10 Points	1762-OB8 - $156 for 8 Points	1769-OB8 - $257 for 8 Points
Combo DC Module	EZIO-4DCI4DCOP -$22 for 4 DC In and 4 DC Out	NA	D0-08CDD1 - $55 for 4 DC In and 4 DC Out	NA	NA
Combo DC Module with Relay Outputs	EZIO-4DCI4RLO - $44 for 4 DC IN and 4 Relay Out	D2-08CDR - $59 for 4 DC IN and 4 Relay Out	D0-07CDR - $55 for 4 DC IN and 3 Relay Out	NA	NA
Digital AC Input	EZIO-8ACI $34 for 8 Points	D2-08NA-1 - $69 for 8 Points	NA	1762-IA8 - $151 for 8 Points	1769-IA81 - $262 for 8 Points
Digital AC Output	EZIO-8ACOP - $34 for 8 Points	D2-08TA - $119 for 8 Points (18 - 220VAC)	NA	1762-OA8 - $195 for 8 Points	1769-OA8 - $291 for 8 Points
Digital DC Relay Outputs	EZIO-4RLO - $39 for 4 Points	D2-08TR - $62 for 8 Points	D0-08TR - $55 for 8 Points	1762-OW8 - $156 for 8 Points	1769-OW8 - $218 for 8 Points
AC and DC Module	EZIO-4DCI4ACO - $34 for 4 DC IN and 4 AC Out	NA	NA	NA	1769-IQ6XOW4 - $247 for 6 DC IN and 4 Relay Out
Analog Input Current	EZIO-8ANIC - $109 for 8 Points	F2-08AD-1 - $245 for 8 Points	F0-04AD-1 - $79, for 4 Points	1762-IF4 - $319 for 4 Points	1769-IF8 - $805 for 8 Points
Analog Output Current	EZUO-8ANOC - $109 for 8 Points	F2-08DA-1 - $156 for 8 Points	NA	1762-OF4 - $291 for 4 Points	1769-OF8C - $1508 for 8 Points
Combo Analog Module Current	EZIO-4ANI4ANOC -$109 for 4 Analog In and 4 Analog Out	F2-4AD2DA - $279 for 4 Analog In and 2 Analog Out	F0-4AD2DA-1 - $185 for 4 Pt Analog In and 2 pt Analog Out	1762-IF2OF2 - $319 for 2 Analog In and 2 Analog Out	1769-IF4XOF2 - $603 for 4 Analog In and 2 Analog Out
Thermo Couple Input	EZIO-4THI - $139 for 4 Points, enhanced option for detecting broken wire or burnt thermocouple	F2-04THM - $299 for 4 Points	F0-04THM - $199 for 4 Points	1762-IT4 - $447 for 4 Points	1769-IT6 - $1022 for 6 Points
RTD Inputs	EZIO - 4RTD - $179 for 4 Points	F2-04RTD - $299 for 4 Points	F0-04RTD - $199 for 4 Points	1762-IR4 - $447 for 4 Points	1769-IR6 - $1084 for 6 Points
High Speed Counter Modules	EZIO-HSCM1 - $99 for High Speed counter module with 1 Quadrature Output EZIO-HSCM2 - $99 for High Speed counter module with 2 Quadrature Output	H2-CTRIO - $289	H0-CTRIO - $195	NA	$922 for 2/4 2/4 Channel High Speed Counter/Encoder Module
Ethernet module	EZPLC-ETHERNET - $99 with Modbus TCP/IP	H2-CTRIO - $289	H0-CTRIO - $195	NA	$922 for 2/4 2/4 Channel High Speed Counter/Encoder Module

EZPLC Selection Guide and Specifications

EZSeries PLC Model Specifications

Part Number	Snap-in I/O Module base EZPLCJ-A-32 - $89 EZPLCJ-D-32 - $69 Screw-down I/O Module base EZPLCPJ-A-32 - $109 EZPLCPJ-D-32 - $89		Snap-in I/O Module base EZPLC-A-32 - Standard $139 EZPLC-A-32E - Ethernet $239 EZPLC-D-32 - Standard $122 EZPLC-D-32E - Ethernet $222 Screw-down I/O Module base EZPLCP-A-32 - Standard $159 EZPLCP-A-32E - Ethernet $259 EZPLCP-D-32 - Standard $149 EZPLCP-D-32E - Ethernet $249		Snap-in I/O Module base EZPLC-A-48 - Standard $188 EZPLC-A-48E - Ethernet $288 EZPLC-D-48 - Standard $165 EZPLC-D-48E - Ethernet $265 Screw-down I/O Module base EZPLCP-A-48 - Standard $225 EZPLCP-A-48E - Ethernet $325 EZPLCP-D-48 - Standard $199 EZPLCP-D-48E - Ethernet $299		Snap-in I/O Module base EZPLC-A-64 - Standard $209 EZPLC-A-64E - Ethernet $309 EZPLC-D-64 - Standard $187 EZPLC-D-64E - Ethernet $287 Screw-down I/O Module base EZPLCP-A-64 - Standard $249 EZPLCP-A-64E - Ethernet $349 EZPLCP-D-64 - Standard $225 EZPLCP-D-64E - Ethernet $325		Snap-in I/O Module base EZPLC-A-96 - Standard $239 EZPLC-A-96E - Ethernet $339 EZPLC-D-96 - Standard $219 EZPLC-D-96E - Ethernet $319 Screw-down I/O Module base EZPLCP-A-96 - Standard $289 EZPLCP-A-96E - Ethernet $389 EZPLCP-D-96 - Standard $259 EZPLCP-D-96E - Ethernet $359	
										
Specifications			**EZPLC models with "E" suffix are built with 10/100 Base-T Ethernet with a standard RJ45 connector**							
	4 Slot EZPLC Jr AC Power	4 Slot EZPLC Jr. DC Power	4 Slot EZPLC AC Power	4 Slot EZPLC DC Power	6 Slot EZPLC AC Power	6 Slot EZPLC DC Power	8 Slot EZPLC AC Power	8 Slot EZPLC DC Power	12 Slot EZPLC AC Power	12 Slot EZPLC DC Power
Input Voltage Range	110 VAC (95-125VAC)	24VDC (20-28VDC)	110 VAC (95-125VAC)	24VDC (20-28VDC)	110 VAC (95-125VAC)	24VDC (20-28VDC)	110 VAC (95-125VAC)	24VDC (20-28VDC)	110 VAC (95-125VAC)	24VDC (20-28VDC)
Maximum I/O Capacity	4 Slot Base (32I/O Max)		4 Slot Base (32I/O Max)		6 Slot Base (48I/O Max)		8 Slot Base (64I/O Max)		12 Slot Base (96I/O Max)	
Power Supply Capacity	3.3V @ 1 Amp									
CPU & Support Electronics Power	300mA									
I/O Module Power	25mA									
***DeviceNet/Profibus** Interface Power*	NA		DeviceNet 50mA, Profibus 100mA							
Maximum Power Consumption	10 watts		10 watts		11 watts		12 watts		15 watts	
CPU Processor			32 Bit, 40 MHz RISC Processor							
Total Memory	64 KB (Ladder)									
Total # of Registers	8192 16Bit									
Typical Scan Time	5ms (1K Boolean)		3ms (1K Boolean)							
Real Time Clock/ Calendar	NA		Built-in							
Battery Backup	NA		Yes, Lithium coin cell battery with 5 year life expectancy, with a low battery indicator							
LED Indicators	Input Power, CPU Status (Run, Program & Run/Program) , Low Battery and RS232 Programming Port active indicators									
I/O Supported	EZI/O Snap-in modules with status LEDs and Removable Terminal Block DC / AC / Analog / Relay / Thermocouple / High Speed Counter / DeviceNet / Profibus									
Operating Temperature	-10C to 60C									
Storage Temp.	-20C to 70C									
Humidity	10-95% Non-Condensing									
Electrical Noise	Nema ICS 2-230 Showering arc; ANSI C37.90a SWC; Level C Chattering Relay Test (pending)									
Agency Approval	UL, CUL, CE (pending)									
Withstand Voltage	1000VDC (1 minute) between power supply input terminal and protective ground)									
Insulation Resistance	Over 20M Ohm between power supply input and terminal and protective ground									
Vibration	5 to 55Hz 2G's for 2 hours in X,Y,and Z axis									
Shock	10G for under 12ms in the X,Y, and Z axis									
Protocols Supported	EZ Protocol on RS232		ASCII In/Out on RS422/485 port; EZ Protocol on Ethernet and RS232 port DeviceNet Slave option card (EZPLC-DeviceNet), and Profibus Slave option card (EZPLC-Profibus)							
Communication Ports	RS232		**Standard Model:** Port 1: RS232 (Programming and HMI Port Only with EZ Protocol) Port 2: RS422 (1.2K, 2.4K, 4.8K, 9.6K, 19.2K, and 38.4K Baud Rates supported) ASCII In/Out							
	NA		**Ethernet Model:** Port 1: RS232 (Programming and HMI Port Only with EZ Protocol) Port 2: RS422 (1.2K, 2.4K, 4.8K, 9.6K, 19.2K, and 38.4K Baud Rates supported) ASCII In/Out Port 3: Ethernet TCP/IP with EZ Protocol for programming or interface to an HMI							
External Dimensions	5.75" x 4.868" x 3.124" (146.05 x 123.65 x 79.356mm)		5.75" x 4.868" x 3.124" (146.05 x 123.65 x 79.356mm)		8.35" x 4.868" x 3.124" (212.09 x 123.65 x 79.356mm)		9.21" x 5.818" x 3.124" (233.93 x 147.78 x 79.356mm)		14.908" x 5.173" x 3.124" (378.65 x 131.4 x 79.356mm)	

EZPLCX-X-32 Specifications



EZPLC
Snap-in I/O
EZPLCX-X-32X

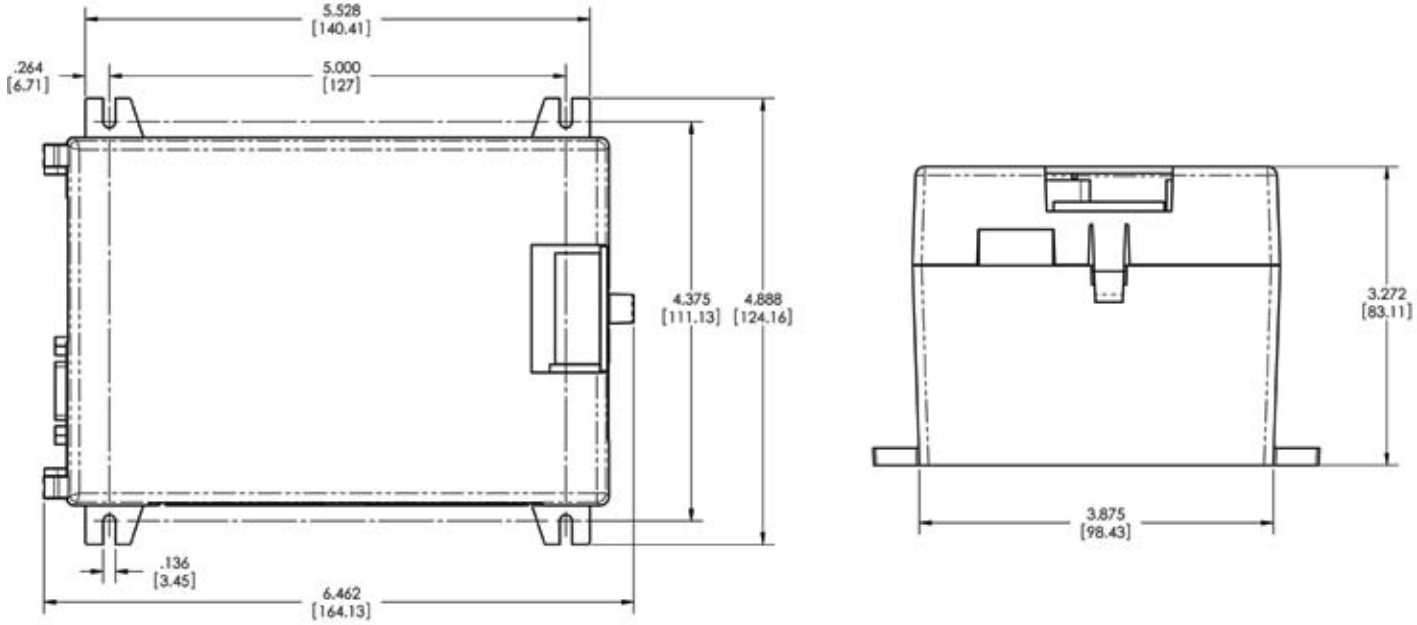
EZPLC Plus
Screw-down I/O
EZPLCPX-X-32X

MODULES NOT INCLUDED WITH BASE

Model Number	Interface	Price	Del.
EZPLC-A-32 ***EZPLCP-A-32*** ***EZPLCJ-A-32*** ***EZPLCPJ-A-32***	**AC Model – 32 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O. EZPLCJ and EZPLCPJ Junior models have only 1 RS232 port	$139 $159 $89 $109	STK
EZPLC-A-32E ***EZPLCP-A-32E***	**AC Model – 32 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$239 $259	3DAY
EZPLC-D-32 ***EZPLCP-D-32*** ***EZPLCJ-D-32*** ***EZPLCPJ-D-32***	**DC Power – 32 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O. EZPLCJ and EZPLCPJ Junior models have only 1 RS232 port	$122 $149 $69 $89	STK
EZPLC-D-32E ***EZPLCP-D-32E***	**DC Power – 32 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$222 $249	3DAY

NOTE: EZPLC Jr. has only RS232 port and no other connector

No limitation on I/O module location except:
Bottom left module cannot be AC output module * Does not apply to EZPLC Jr.



EZPLC™ EZPLC-X-48 Specifications



EZPLC
Snap-in I/O
EZPLCX-X-48X

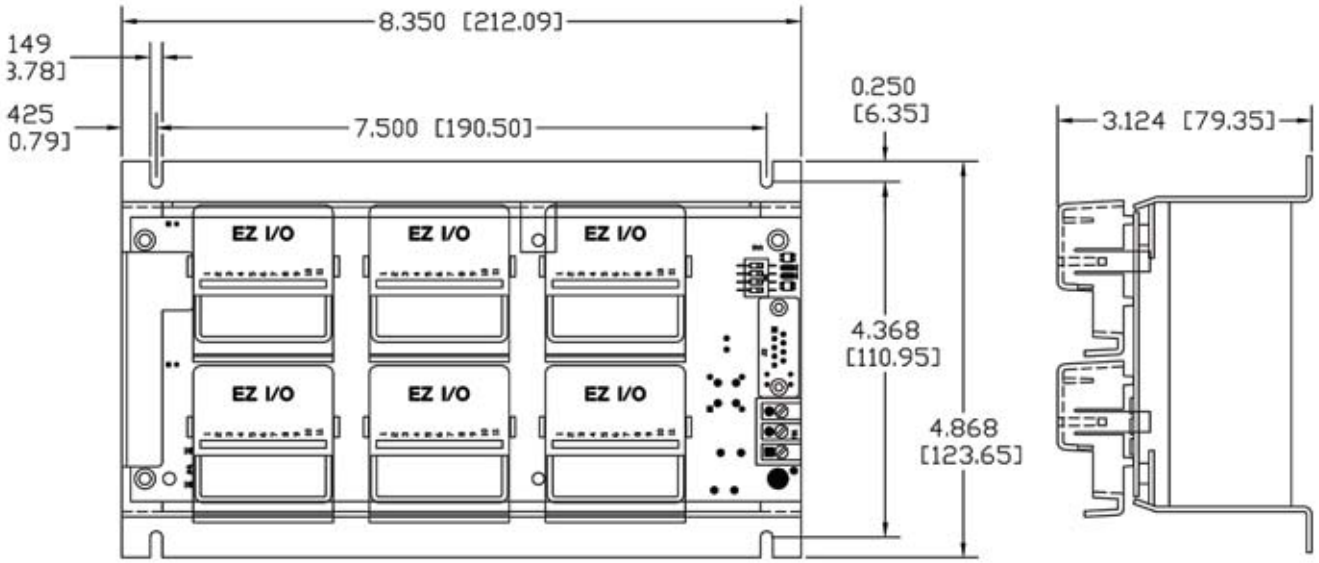


EZPLC Plus
Screw-down I/O
EZPLCP-X-48X

MODULES NOT INCLUDED WITH BASE

Model Number	Interface	Price	Del.
EZPLC-A-48 ***EZPLCP-A-48***	**AC Model – 48 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$188 $225	STK
EZPLC-A-48E ***EZPLCP-A-48E***	**AC Model – 48 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$288 $325	3DAY
EZPLC-D-48 ***EZPLCP-D-48***	**DC Power – 48 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$165 $199	STK
EZPLC-D-48E ***EZPLCP-D-48E***	**DC Power – 48 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$265 $299	3DAY

No limitation on I/O module location except:
1) Bottom left module cannot be AC output module
2) Analog input and output combination module can be configured only in the first 4 slots



EZPLC™ EZPLC-X-64 Specifications



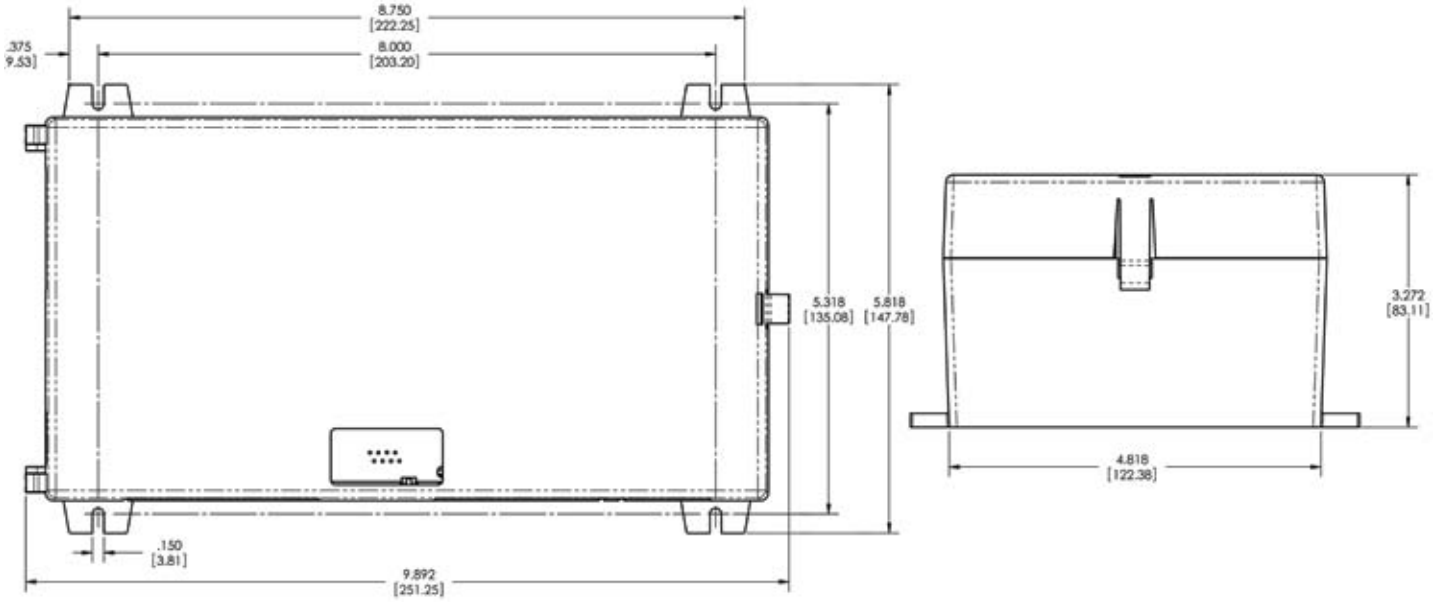
EZPLC
Snap-in I/O
EZPLCX-X-64X

EZPLC Plus
Screw-down I/O
EZPLCP-X-64X

MODULES NOT INCLUDED WITH BASE

Model Number	Interface	Price	Del.
EZPLC-A-64 ***EZPLCP-A-64***	**AC Model – 64 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$209 $249	STK
EZPLC-A-64E ***EZPLCP-A-64E***	**AC Model – 64 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$309 $349	3DAY
EZPLC-D-64 ***EZPLCP-D-64***	**DC Power – 64 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$187 $225	STK
EZPLC-D-64E ***EZPLCP-D-64E***	**DC Power – 64 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$287 $325	3DAY

No limitation on I/O module location except:
1) Bottom left module cannot be AC output module
2) Analog input and output combination module can be configured only in the first 4 slots



EZPLC-X-96 Specifications



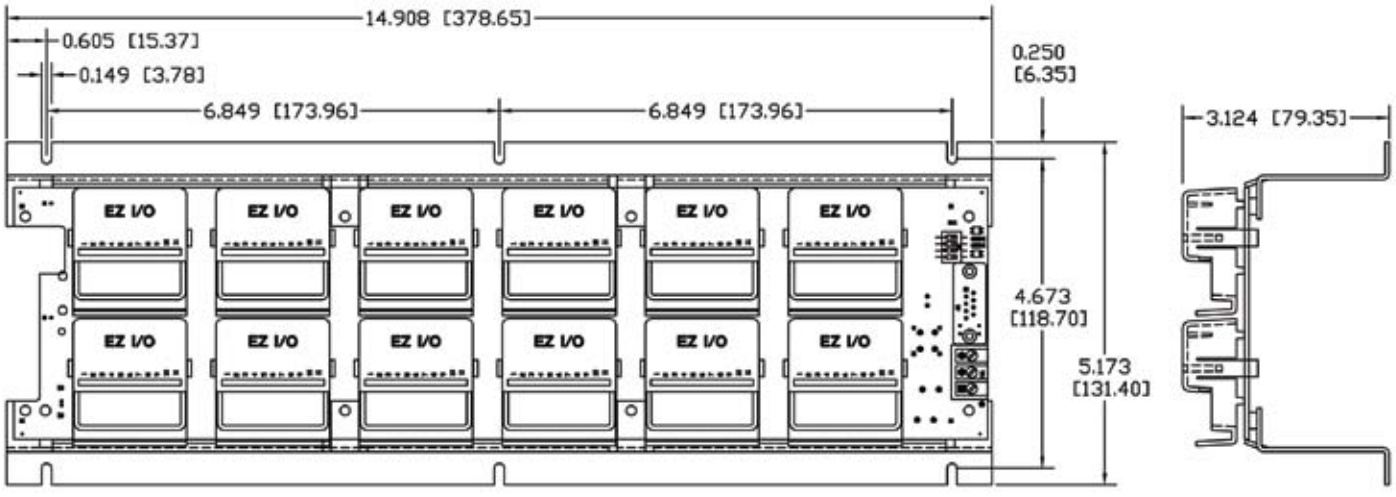
EZPLC
Snap-in I/O
EZPLCX-X-96X

EZPLC Plus
Screw-down I/O
EZPLCP-X-96X

MODULES NOT INCLUDED WITH BASE

Model Number	Interface	Price	Del.
EZPLC-A-96 ***EZPLCP-A-96***	**AC Model – 96 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$239 $289	3DAY
EZPLC-A-96E ***EZPLCP-A-96E***	**AC Model – 96 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$339 $389	3DAY
EZPLC-D-96 ***EZPLCP-D-96***	**DC Power – 96 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$219 $259	3DAY
EZPLC-D-96E ***EZPLCP-D-96E***	**DC Power – 96 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZPLC has snap-in I/O where as EZPLCP has screw-down I/O.	$319 $359	3DAY

No limitation on I/O module location except:
1) Bottom left module cannot be AC output module
2) Analog input and output combination module can be configured only in the first 4 slots
3) Analog I/O modules can be configured only in the first 10 slots



EZ Series™ TouchPLC™

Combination of Most Powerful Touchpanel and High Performance Modular PLC



THE MOST SENSIBLE INTEGRATED PLC & HMI

Innovate'n'Save™

EZSeries™ TouchPLC™

First Touchpanel with Modular PLC Built-in

What is EZSeries TouchPLC?

EZSeries TouchPLC is the First Touchpanel with Modular and Plug-in I/O. There are other similar products in the market place but none have the flexibility, modularity and maintenance features that PLC users have come to rely upon. It is an integrated package of EZSeries Touchpanels and PLCs.

What Does It Have?

- Integrated Touchpanel and Modular PLC with single tag database and programming software using same programming port.
- Incredible 3-D graphical objects: pushbuttons, numeric entry, meters, line graphs, PID faceplates, etc. All are high-speed, vector-based objects with amazing scalability.
- Display text in up to nine different languages (user-selected by a push of a button!)
- Built-in Symbol Factory with over 4,000 symbols
- Screen and object password protection (eight user-defined levels)
- Unmatched alarm capability with history, count and details
- Recipe downloads to the PLC:20 values into 20 registers (fixed or variable)
- Floating-point numbers to and from PLC
- Built-in clock and calendar
- Bitmaps can be sized on the screen in the Programming Software
- Import/Export tags and messages to/from Excel or CSV files
- Export alarms to Excel or CSV file
- Multi-state Bitmap object (bit or word selectable)
- Multi-state Indicator/Message object (bit or word selectable) allows up to four embedded data variables in messages
- Bitmap Button object
- Scalable meters and bar graphs
- Floating point support for Meters, Bar Graphs, PID and Line Graphs
- User-selectable 3-D frames
- Password protected Alarms
- Extremely flexible 8 point I/O modules
- 64K PLC Program memory
- Extremely fast scan time: 3ms for 1k
- Powerful Ladder Logic Instruction Set
- Two RS422/485 Comm. ports
- 8 Auto-tuned PID loops
- Thermocouple, RTD I/O modules
- 250 KHz PWM modules
- Supports ASCII In/out
- Extremely cost effective Ethernet, Devicenet and Profibus options
- Extremely cost effective Analog I/O
- 100 KHz counter module
- Save as much as 35% on panel space
- Self-learn, EZ to use, low cost programming software

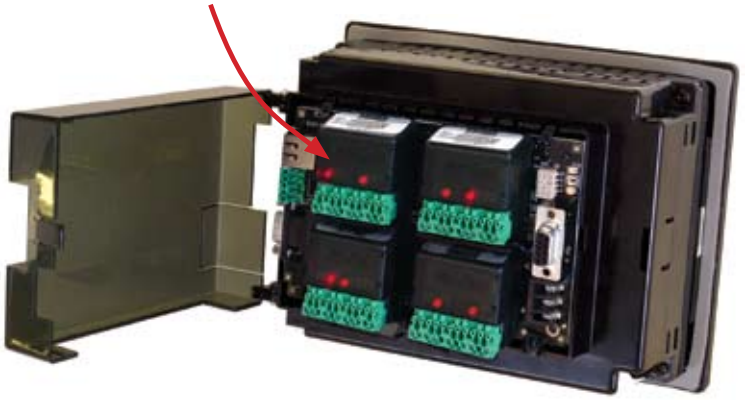
Where Does It Make Sense?

EZSeries TouchPLCs are ideal for applications where space is at a premium and the control needs 64 or less I/O, even though I/O can be expanded to 2048. It eliminates the need to buy and install a PLC and Operator Interface separately and thus reduces the electrical panel space, makes the control system extremely compact and cost effective. With EZSeries TouchPLC starting at $544 for a 32 Digital I/O system (16 Dig In/16 Dig Out), now you can have a very powerful Touchpanel and modular PLC at the cost of Embedded controllers without the hassle of "C" level programming or proprietary microprocessor boards. EZSeries TouchPLC uses EZI/O modules for I/O (starting at $22 for 8 Digital Out!) which can be chosen from a large variety of options including Analog I/O, Thermocouple or RTD, PWM, High Speed Counter, Relay, and AC/DC combo modules.

1. Choice of 6", 8", 10", 15" Displays
2. Wide selection of 8 pt. Plug-in I/O Modules (26 to choose from)
3. **DeviceNet, Profibus or Ethernet IP,** Modbus TCP/IP, Comm. Options



Wide variety of 8 pt. Plug-in I/O modules



Innovate'n'Save™

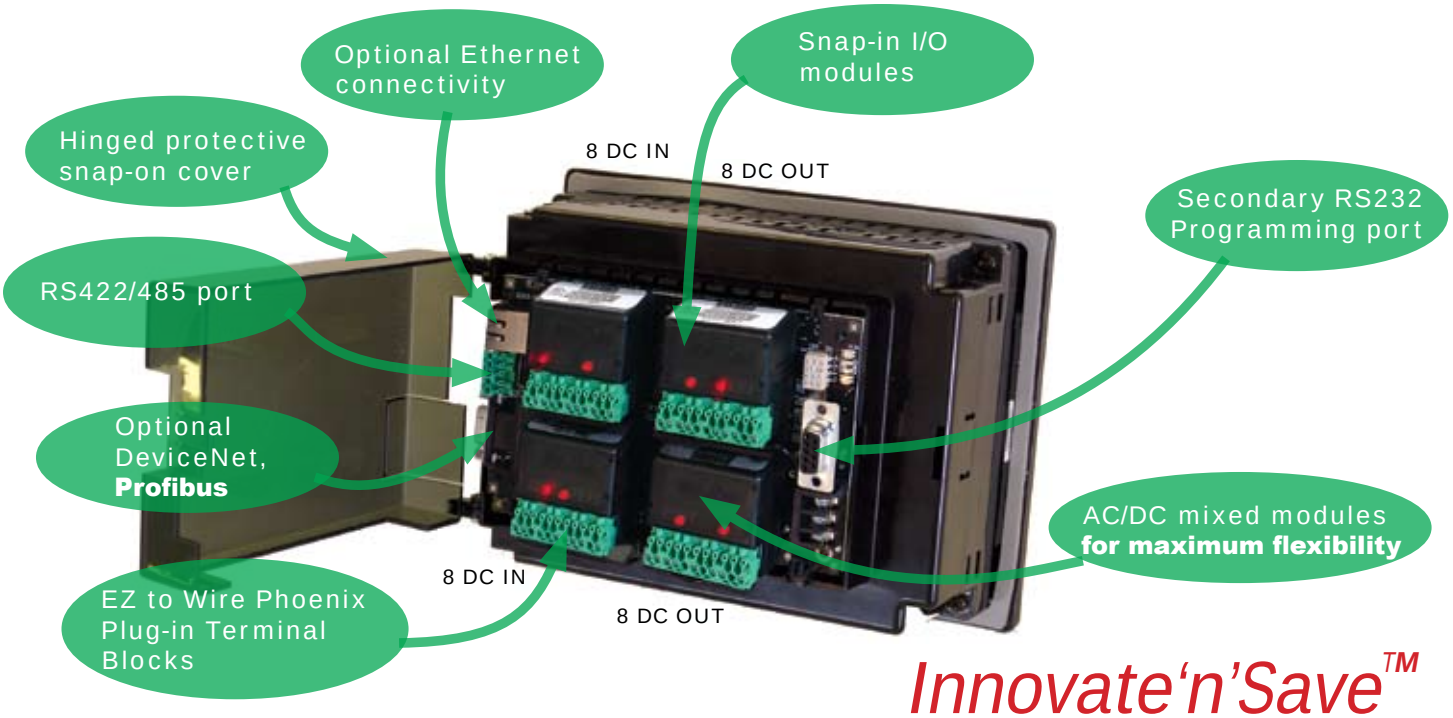
EZSeries™ TouchPLC™

Look at what you get for $598!



- 6” White on Blue Operator Interface (Touch Panel)
- Nema 4 Front Bezel
- Pre-Built 3-D Panel Objects
- Online Programming
- Display text in up to nine different languages (user-selected by a push of a button!)
- Built-in Symbol Factory with over 4,000 symbols
- Screen and object password protection (eight user-defined levels)
- Unmatched alarm capability with history, count and details
- Recipe downloads to the PLC:20 values into 20 registers (fixed or variable)
- Floating-point numbers to and from PLC
- Built-in clock and calendar
- Single tag database and programming software using same programming port.

- Bitmaps can be sized on the screen in the Programming Software
- Import/Export tags and messages to/from Excel or CSV files
- Export alarms to Excel or CSV file
- Multi-state Bitmap object (bit or word selectable)
- Multi-state Indicator/Message object (bit or word selectable) allows up to four embedded data variables in messages
- Bitmap Button object
- Scalable meters and bar graphs
- Floating point support for Meters, Bar Graphs, PID and Line Graphs
- 32 I/O Base – Allows Max of 4 (8 point I/O) modules
- (16) 24VDC Digital Inputs
- (16) 24VDC 0.4 Amps Source Outputs, Short Circuit Proof
- I/O Modules are Snap-In 8 Point with Status LED’s
- 3.5 mm Pheonix Removable Field Terminal Blocks
- Single Tag Database for both PLC and HMI
- Three PLC States: Run, Program and Run/Program with LED Indicators
- CPU Status LED Indicator
- Low Battery LED Indicator
- 8192 Variables, 8192 Registers
- 64 KB User Memory
- 3 ms Scan Time
- Two RS422/485 Communication Ports Built-in
- Supports ASCII In/Out
- Powerful Ladder Logic Instruction Set
- Single EZSeries TouchPLC Editor for $99 With Common Tag Database
- 8.048 x 6.145 x 4.146 for Complete Package
- 8 Auto-tuned PID loops (optional)
- Thermocouple, RTD I/O modules (optional)
- 250 KHz PWM modules (optional)



Innovate‘n’Save™

8 Models to Choose From Starting as Low as $510

Key Features

- Integrated Touchpanel and Modular PLC with single tag database and programming software using same programming port.
- NEMA 4, FDA Compliant Front Bezel
- Pre-Built 3-D Panel Objects
- Display text in up to nine different languages
- Built-in Symbol Factory with over 4,000 symbols
- Screen and object password protection
- Unmatched alarm capability with history, count and details
- Recipe downloads to the PLC
- Floating-point numbers to and from PLC
- Built-in clock and calendar
- Bitmaps can be sized on the screen in the Programming Software
- Import/export messages to/from Excel/CSV files
- Export alarms to Excel or CSV file
- Multi-state Bitmap object (bit or word selectable)
- Multi-state Indicator/Message object (bit or word selectable) allows up to four embedded data variables in messages
- Bitmap Button object
- Scalable meters and bar graphs
- Floating point support for Meters, Bar Graphs, PID and Line Graphs
- 32 I/O Base for 6" models, 64 I/O Base for larger models
- I/O Modules are Snap-In or Screw-down 8 Point with Status LED's
- Mix-N-Match 8 Point I/O starting as low as $22 for 8 of 0.5 amp DC short circuit proof outputs
- 1/3rd to 1/10th the cost of competitor's analog I/O, $109 for 4 12 bit Analog In and 4 12 bit Analog Out
- 100KHz counter module with less than 50µs PLS response time
- 3.5 mm Pheonix Removable Terminal Blocks
- 8192 Variables, 8192 Registers
- 64 KB User Memory
- 3 ms Scan Time
- Two RS422/485 Communication Ports Built-in
- Supports ASCII In/Out
- Powerful Ladder Logic Instruction Set
- Less than a 4.25" depth including I/O
- Thermocouple, RTD I/O modules
- 250 KHz PWM modules



NOW THIS IS INCREDIBLE!

Sensible PLC
Communications for:
DeviceNet - $79
Profibus - $139
Ethernet - $99

EZSeries TouchPLC Programming Software $99



6" White on Blue, QVGA
EZP-S6W-RS-PLC: $510 Snap-in I/O
EZPP-S6W-RS-PLC: $569 Screw-down I/O



6" Monochrome, QVGA
EZP-S6M-FS-PLC: $662 Snap-in I/O
EZPP-S6M-FS-PLC: $712 Screw-down I/O



6" STN Color, QVGA
EZP-S6C-FS-PLC: $910 Snap-in I/O
EZPP-S6C-FS-PLC: $960 Screw-down I/O



6" TFT Color, QVGA
EZP-T6C-FS-PLC: $1110 Snap-in I/O
EZPP-T6C-FS-PLC: $1160 Screw-down I/O



8" STN Color, VGA
EZP-S8C-FS-PLC: $1099 Snap-in I/O
EZP-S8C-FS-PLC: $1199 Screw-down I/O



8" TFT Color, VGA
EZP-T8C-FS-PLC: $1549 Snap-in I/O
EZP-T8C-FS-PLC: $1649 Screw-down I/O



10" TFT Color, VGA
EZP-T10C-FS-PLC: $1849 Snap-in I/O
EZP-T10C-FS-PLC: $1949 Screw-down I/O



15" TFT Color, VGA
EZP-T15C-FS-PLC: $2649 snap-in I/O
EZP-T15C-FS-PLC: $2749 Screw-down I/O

HALT CERTIFIED HASS

EZSeries™ TouchPLC™

It is like having a Flexible, Modular, High Performance CompactLogix or DL205 PLC; Almost Free, inside your Touchpanel!!

EZSeries TouchPLC has been one of the most successful new products that was introduced in Jan of 2005 with the launch of EZAutomation. The product has been continously enhanced with new functionalities such as On-Screen Recipe Edit on the Touchpanel side, PLC program storage, Enhanced communication capability of Ethernet, Modbus TCP/IP, Ethernet IP and the exclusive "data store" instruction. In addition to these touchpanel and PLC enhancements, EZAutomation as a result of customer feedback from you, has tooled for new housings to attach the PLC to the Touchpanel and also enhanced its programming software to be able to program both the touchpanel and the PLC from a single port.



Wide variety of 8 pt. Plug-in I/O modules

1 Single piece housing with protective cover

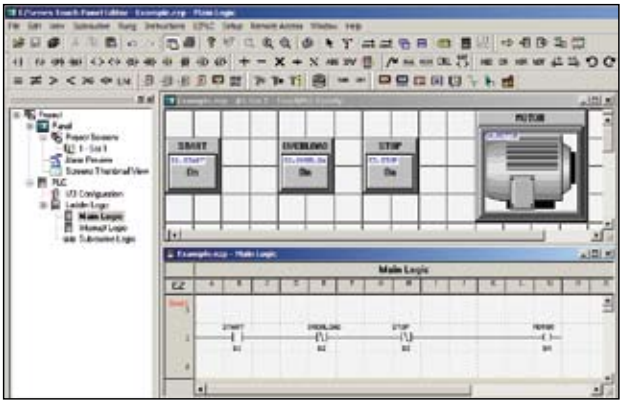
EZSeries TouchPLC now comes in a single piece housing that includes a hinged translucent cover for protection of electronic circuits inside the TouchPLC. All the LED indicators showing the status of the PLC as well as the status of Input and output modules are visible thru the translucent cover. The hinged cover is designed to close with a snap-in latch.

The standard models have Snap-in I/O modules where as the Plus series have Screw-down I/O modules.



2 Program Touchpanel and PLC through one port...

The EZSeries TouchPLC can now be programmed thru the 9-pin RS232 port on the Touchpanel itself. The programming software is also integrated into one package that allows use of the same database for Touchpanel and PLC functionalities. In addition both the Touchpanel objects and corresponding PLC tags and ladder symbols can appear on the same design screen.



3 EZSeries TouchPLC II TBRS

Ethernet and Remote Monitoring & Control option for TouchPLC

Soon to be released TouchPLC II shall have a built-in Ethernet port for programming as well as Remote Monitoring & Control of the TouchPLC. For more Information on EZAutomations exclusive Remote Monitoring & Control

EZRMC™ *... see page 3-6*

Innovate'n'Save™

EZSeries™ TouchPLC™ The Combination of the World's EZiest to Use Touch Panel and PLC is Simply Unbeatable!



Look at what you get for $2,263!



- 10" TFT Color Operator Interface (Touch Panel)
- Slim Front Bezel, NEMA 4
- Ease of use of an EZSeries Touchpanel
- Online Programming
- 64 I/O Base – Allows Max of 8 (8 point I/O) modules
- 16 24VDC Digital Inputs
- 16 24VDC 0.5 Amps Source Outputs, Short Circuit Proof
- 4 12 bit Analog Inputs, 4 12 bit Analog Outputs
- 4 AC In, 4 Relay Out
- 4 110 VAC In / 4 110 VAC Out
- 4 Thermocouple In
- I/O Modules are Snap-In 8 Point, with Status LED's
- 3.5 mm Pheonix Removable Terminal Blocks
- Single Tag Database for both PLC and HMI
- Built-in real time clock/calendar
- 8192 Variables, 8192 Registers
- 64 KB User Memory
- 3 ms Scan Time
- Two RS422/485 Communication Ports Built-in
- Supports ASCII In/Out
- Powerful Ladder Logic Instruction Set
- Single EZSeries TouchPLC Editor for $99 With Common Tag Database
- 10.894 x 8.748 x 4.326 for Complete Package

Let's Compare as to what it would take for a competitor to deliver this 60 I/O System



ADC DL205 (Job is too big for DL06)

Part Number	Qty	Description	Price
D2-260	1	30.4K CPU	$299
D2-09BDC1-1	1	9 slot base	$195
D2-16ND3-2	1	16 point DC In	$79
D2-16TD2-2	1	16 point DC Out	$82
F2-4AD2DA	1	4 Analog In, 2 Analog Out	$279
F2-02DA-1	1	2 Analog Out	$152
D2-04TRS	1	4 Relay	$60
D2-08NA-1	1	8 AC In	$65
D2-08TA	1	8 AC Out	$95
F2-04THM	1	4 Thermocouple	$299
EA7-T8C	1	8.2" TFT Color C-More	$1575
EA-2CBL	1	10' Cable to PLC	$20

Total $3,200

AB MicroLogix 1200

Part Number	Qty	Description	Price
1762-L40BXB	1	MicroLogix 1200, 40 pt	$649
1762-IA8	1	8 Point 120 VAC Input Module	$139
1762-OA8	1	8 Point 120/240 VAC Output Module	$180
1762-OB8	1	8 Point 24 VDC Source Output Module	$144
1762-IT4	1	4 Channel, Thermocouple/ Mv Module	$412
1762-IF2OF2	2	4 Channel Analog Combo Module	$294
2711-NC21	1	16.4 ft (5m) RS232 Operating Cable	$70
2711P-T10C4D1	1	Standard Communications, 10 inch PanelView Plus	$3,894

Total $5,782

EZSeries™ TouchPLC™

Lets Compare to a Separate Operator Interface and a small PLC From Automation Direct!

32 I/O with 6" Monochrome Touch Panel
16 Digital In, 16 Digital Out 24 VDC Power

SPACE SAVING IS AN ADDED BENEFIT



EZSeries TouchPLC



$701



$820 with Programming Software

EZSeries TouchPLC Requirements		
Price	Model	Description
$613	EZP-S6M-FS-PLC	6" Mono EZTouch with Built-in EZPLC – EZSeries TouchPLC!
2@$22	EZP-8DCI	8 DC Input EZIO Module
2@$22	EZP-8DCO	8 DC Output EZIO Module
		Total $701
With Programming Software and Cables		
$20	EZP-PGMCBL	Programming Cable for EZSeries Touch-PLC
$99	EZP-TOUCHPLC-EDIT	Programming Software for EZouchPLC
		Total $820

DL06 and C-More





$843

$1171 with Programming Software

DL06 and C-More Requirements		
Price	Model	Description
$199	DO-06DD2-D	(20 DC In/16 DC Out, 12/24VDC)
$534	EA7-S6M	C-More 6" Mono Touch Panel
$20	EA-2CBL	C-More to DL06 Communication Cable (RS232C Cable)
$60	NEMA 12 Enclosure	Min. Additional Enclosure Cost difference *
$30		Min. Additional Labor Cost to Install DL06
		Total $843
With Programming Software and Cables		
$149	PC-PGM-BRICK	DirectSOFT32 for Windows PC
$30	D2-DSCBL	PC Programming Cable for DL06
$129	EA7-PGMSW	C-More Programming Software
$20	PGMCBL	Programming Cable
		Total $1,182

*See page 6-9

EZSeries™ TouchPLC™

Let's Compare to a Separate Operator Interface and PLC from Allen Bradley

32 I/O with 6" Monochrome Touch Panel
16 Digital In, 16 Digital Out -- 24 VDC Power



SPACE SAVING IS AN ADDED BENEFIT



EZSeries TouchPLC



$750



$869 with Programming Software

MicroLogix 1200 and PV550



$1985

$3590 with Programming Software

EZSeries TouchPLC Requirements		
Price	Model	Description
$662	EZP-S6M-FS-PLC	6" Mono EZTouch with Built-in EZPLC – EZSeries TouchPLC!
2@$22	EZP-8DCI	8 DC Input EZIO Module
2@$22	EZP-8DCO	8 DC Output EZIO Module
Total $701		
With Programming Software and Cables		
$20	EZP-PGMCBL	Programming Cable for EZSeries Touch-PLC
$99	EZP-TOUCHPLC-EDIT	Programming Software for EZouchPLC
Total $869		

MicroLogix 1200 and PV550 Requirements		
Price	Model	Description
$649	1762-L40BXB	MicroLogix 1200 PLC with 24 DC In and 8 FET (24DC) Out
$144	1762-OB8	8 Point 24VDC output
$52	1762-RTC	Real Time Clock
$1,070	2711-T5A16L1	PV550 Mono Touch, DF1 & RS232 Print Port
$70	2711-NC21	5 Meter RS232 Cable, PV TO MicroLogix
Total $1985		
With Programming Software and Cables		
$67	1756-CP3	LOGIX5000 RS232 Programmer Cable
$1,133	9324-RL0300ENE	RSLOGIX 500 Standard CD-ROM
$305	2711-ND3	PANELBUILDER32 Software for PanelView
$100	2711-NC13	5 Meter RS232 Operating/Programming Cable
Total $3590		

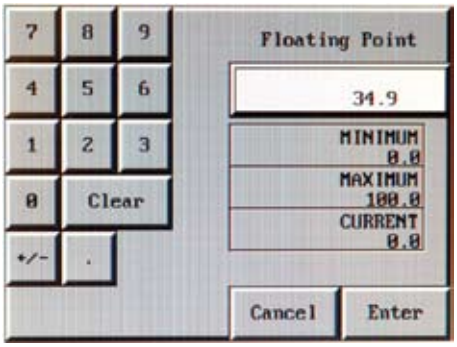
Just a Few Reasons Operators Love EZSeries TouchPLC's HMI Screens

Our Engineers and Technical support personnel worked closely in designing this product, keeping one thing in mind... that this touch panel has to be the most user friendly for machine operators. Here are some highlighted features:



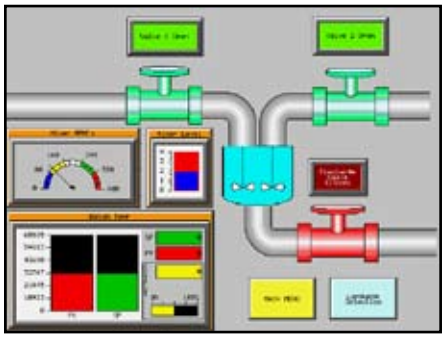
1 Operators Can Choose their Favorite Language

The United States has one of the most culturally diverse population of all countries and that means operators have a need for multiple languages. We were among the first to identify this need which resulted in multiple language support in our EZSeries TouchPLC Editor. You can configure each and every object (except PID face plate) for up to nine different languages (ASCII characters) each. While configuring our panel, a "language button" can be created to let the operators select their favorite language. For example, one operator can change the whole screen to Spanish by pressing a "Spanish" button. The next operator can change the whole screen to English by pressing an "English" Button. And so on...



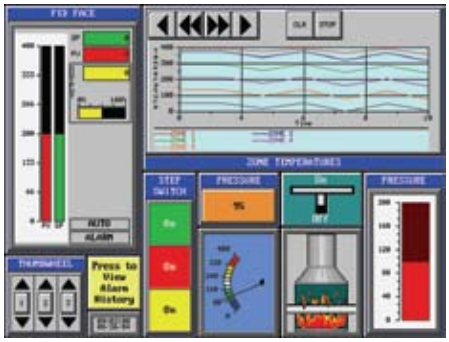
2 It's EZier than ever for operators to input data!

EZSeries TouchPLC allows pop-up keypads for users to enter data in any of its supported formats (Signed and Un-Signed Decimal, Floating Point, Hexadecimal, and Octal). When creating pop-up type inputs for the above type formats, it automatically selects the right type based on the PLC/internal tag chosen. Ever needed a thumbwheel type input? We've added that as well, which allows the operator to scroll up/down each digit (max of five digits). All the data input type objects (including pop-up and thumbwheel) can be protected with up to eight levels of password protection. These passwords can be pre-programmed in our editor or they could be pointers to registers in a PLC. Having the passwords pointing to PLC registers allows for different passwords for multiple shifts and overrides by supervisors.



3 Scale objects to any size with no distortion

Our Editor uses vector-based graphics for objects. Unlike other editors that use graphic symbols, which distort when scaled, objects created by EZSeries TouchPLC Editor retain their shape with no or very little distortion. Another advantage to using vector based graphics is the super fast response time as our objects utilize very little memory. Any object in our editor is configurable up to 128 colors and allows importing of bitmaps as well with 128 colors.



4 The most sensible objects hard to find in other brands

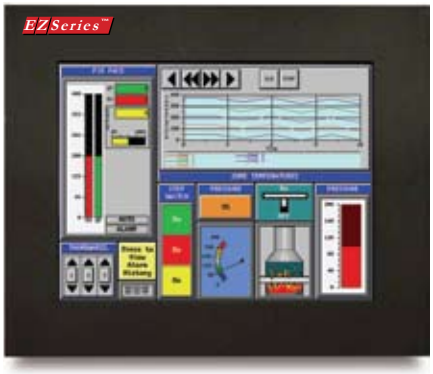
EZSeries TouchPLC offers a graphical trending feature (great for time change over), PID face plates (single loop PID controller face plates), Downloadable Recipe (you can download up to 20 values, predefined or pointing to variable registers, to a PLC with just a single push button), thumbwheel, analog and digital clocks, radio buttons, step switches, many forms of meters, and many more along with our 4000 objects from SymbolFactory™.

EZSeries TouchPLCs are EZ to Operate

Eight levels of password security for every input **object.**

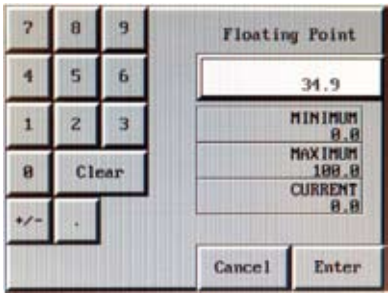
All data input objects have password security. A user can define up to eight password labels of security. In addition, variable passwords can be defined from registers in the PLC.





POP-UP Keypad allows you to enter data into **a pre-defined PLC** register.

The numeric entry object allows you to write a value to a PLC register. Using range check options you can pre-define the minimum and maximum set points. The keypad also automatically changes data types to what is appropriate, such as floating points, octal, hexadecimal or signed/ unsigned decimal.



POP-UP Electronic Thumbwheel emulates a mechanical **thumbwheel** switch.



A pop-up thumbwheel operates just as a mechanical thumbwheel would, in that the operator can “scroll” each digit up and down. Simply hit “ENT” or “Enter” on all pop-ups to download your entry to the PLC.

PLC Performance You Will Find Only in PLCs Costing Thousands More!

8192 Registers
8192 Variables

64K
Available
for
Ladder &
Memory

64k Byte User Memory

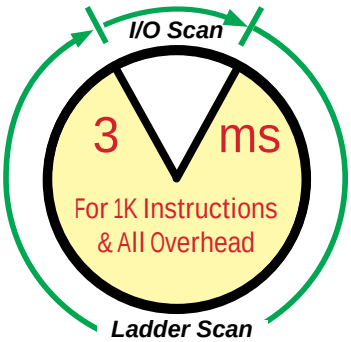
Most Micro PLCs have only a limited 8-16k memory. But not this souped up PLC! Some of the things you can do with this 64k byte memory:

- Store 2000 Messages
- Store 500 20 Variable Recipes
- Collect 10,000 Four Variable Data Points



32 Bit, 40 MHz RISC Processor Dedicated to PLC Processing Only, with a Separate Processor for HMI

The EZSeries TouchPLC has two processors, one for handling the PLC and its I/O, and another co-processor for handling the HMI functions. Even though the two processors cost more, we wanted to make sure that you have one of the fastest PLCs on your machine. This $548 Touch Panel PLC rivals scantime specifications of the fastest full-blown PLCs. Additionally, the two processors even have their own power supplies. **So, if the touch screen was to fail, it would not impact the PLC side of the EZSeries TouchPLC.**

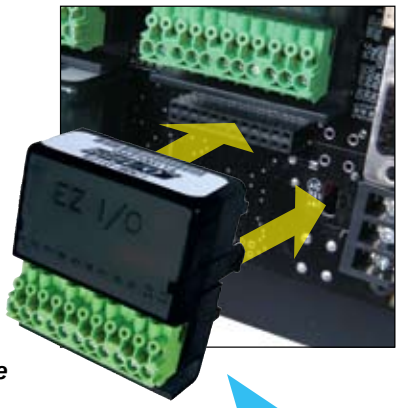


EZ Series™ TouchPLC™ We Looked At Every Detail!

Innovate'n'Save™

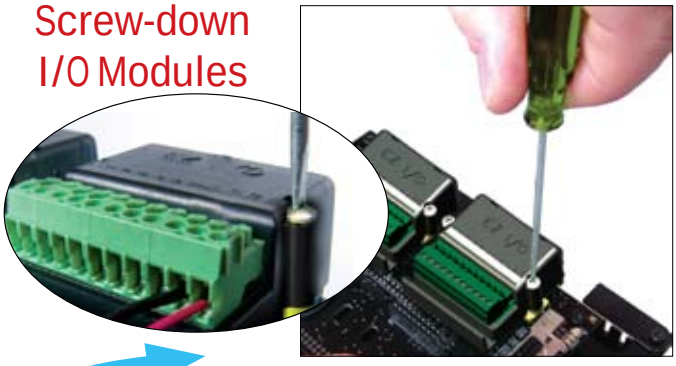
Snap-in I/O Modules





Back side of EZI/O module

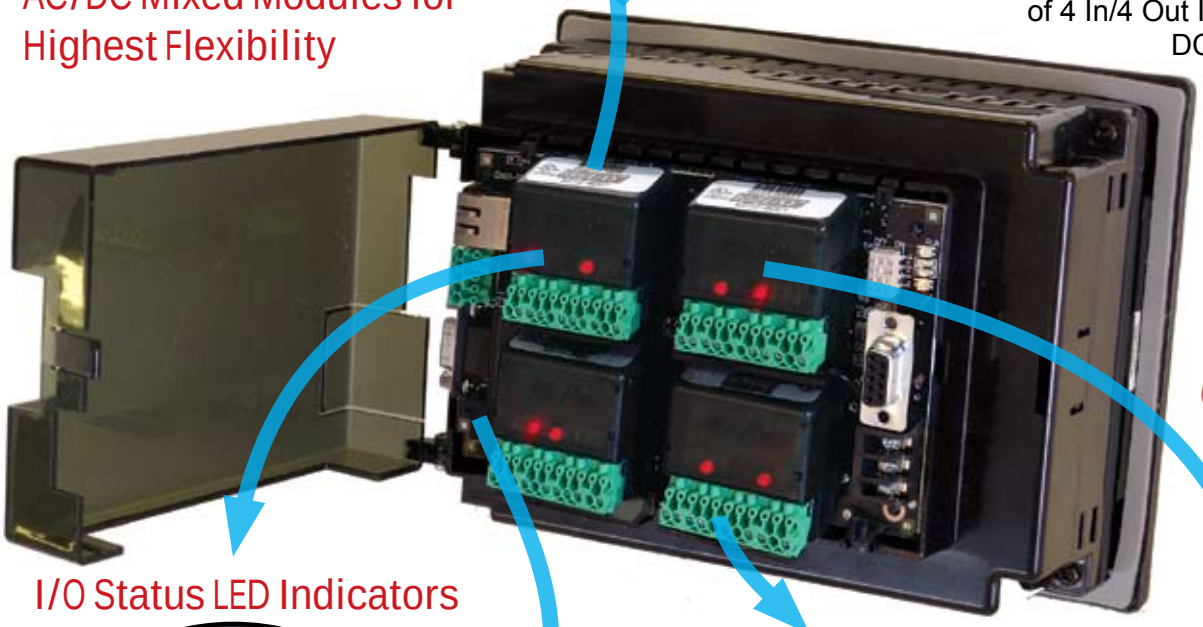
Screw-down I/O Modules



4 In/4 Out Wide Variety of Mix-n-Match I/O Modules

TouchPLC offers the widest range of 4 In/4 Out I/O modules. Mix 4 DC In with 4 AC Out.

AC/DC Mixed Modules for Highest Flexibility



HALT CERTIFIED HASS

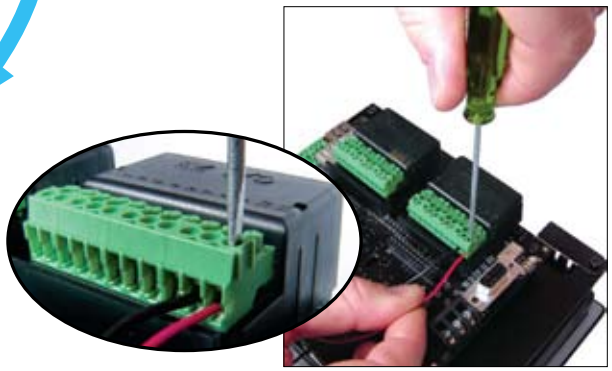
I/O Status LED Indicators



CPU Status Indicator LEDs



EZ to Wire Phoenix Plug-in Terminal Blocks



0.5 Amp Short Circuit Proof DC Outputs

This 2x2x1" ultra compact module has 8 DC Outputs rated at 0.5 Amp each that are short circuit proof!

EZSeries TouchPLC Objects

Simple yet Powerful Objects that Look Great... Now that's EZ!

Pushbutton

Allows you to write to a tag, and offers 5 types of button states: Momentary ON/OFF, Set ON/OFF and toggle.



Indicator Pushbutton

Combines a regular pushbutton with an indicator light, allowing you to write to one bit and read from a second location, determining what the button displays.



Radio Pushbutton



One button can be on at any given time. When a button is pressed it releases any button that may be on, and becomes the active button.

Switch

Simulate mechanical switches of the same type, e.g.; Throw, selector, slide, toggle, etc.



Step Switch

Simulates a mechanical step switch, allowing simaltaneous monitoring & control of up to 4 different bits.



Tri-State Switch



This object controls two bits at a time from 2 different tags. If the first button is pressed, both the bits are off. If the second button is pressed, the first bit on and second bit is off. If third button is pressed, the first bit is off and the second bit is on.

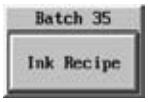
Numeric Entry

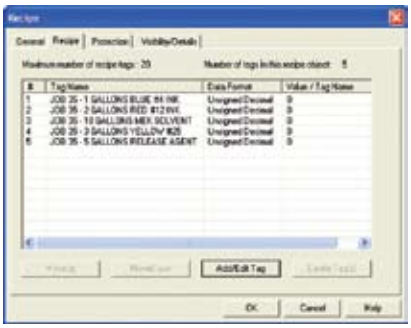
Write a value to a PLC register. A numeric keypad will pop up when this object is pressed on the screen.



Recipe

Download up to 20 preset or variable PLC registers per recipe in the EZSeries Touchpanel. This object can also be used to set values in PLC registers to change a process all together!





Thumbwheel

Simulating a mechanical thumbwheel, this pop-up thumbwheel allows operators to scroll each digit up or down, then "ENT" to download entry to the PLC.



Indicator Light

Monitor and display the state of a bit. For example, the indicator light could display the status of a bit linked to a push button.



Numeric Display

Display a numeric tag value on the screen within a frame.



Analog Clock



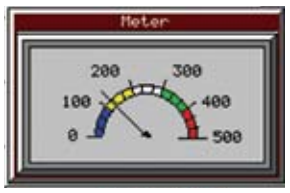
Digital Clock



Two options for displaying time.

Meter

The meter object is an excellent graphical representation of an analog gauge, such as a speedometer or thermometer. Custom design the color bars for alarm zones, select the number of divisions to be displayed and the values of the meter.



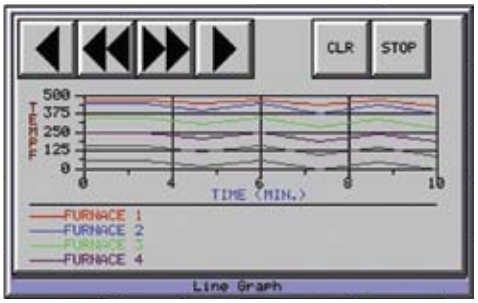
Bar Graph

Allows you to monitor and display a tag value in a bar graph form on the screen. The bar graph can be displayed in various formats and can be programmed to read from top to bottom, left to right, right to left, etc.



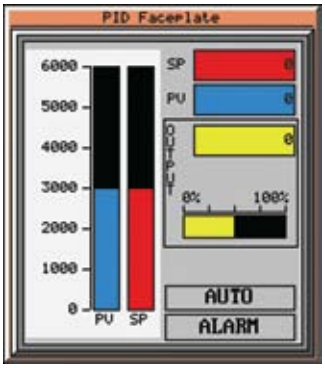
Line Graph

Monitor specific tags and display the value of these data tags as they change over time. You can custom design the legend for X and Y axis and assign labels to major "tic" marks on a chart. This object also has VCR type forward/backward controls to view historical data.



PID Faceplate

Use our PID faceplate for PLC systems capable of PID loops. PID faceplate allows you to display values for three PID loop controlled parameters in the form of bar graphs. These graphs then provide valuable and timely process information. This object also monitors two discrete bits: Mode Bit and Alarm Bit, telling the operator whether the process is in Auto or Manual mode, and if any alarm for the process is active or not.



Screen Change

Use this object to jump or change to (display) another screen.



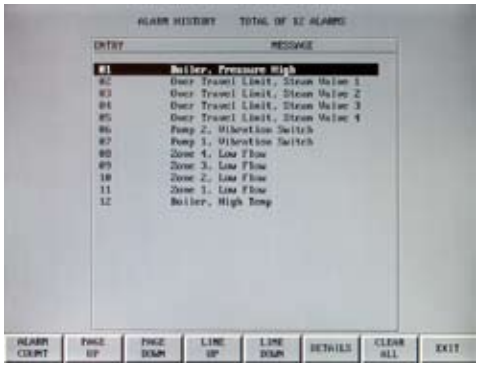
Innovate'n'Save™

EZSeries TouchPLC Objects

Alarm History

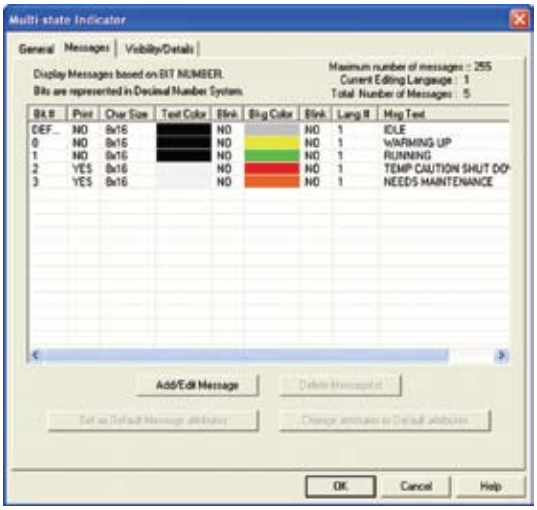


Use our pre-built Alarm History button to show Alarm Count and Alarm History with one touch of a button. Alarm History displays all the alarms triggered sequentially with the most recent one right on the top, whereas Alarm Count displays the exact number of times a certain alarm has been triggered. Use this great preventive maintenance tool to replace any components that need to be changed. Any time an alarm is highlighted and selected, it will show you all the details that you'll ever need to know including the time it was triggered, the time it was cleared, date stamp, upper and lower limits along with the limit that tripped an alarm.



Multi-state Indicator

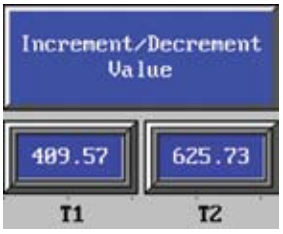
Display preprogrammed messages within a frame. Each object has its own message storage and does not need an external message database. Up to 256 messages can be stored, and the one message that is displayed is based upon the value of a bit or a tag. Messages can also embed data variables. In addition, this object can be used as an indicator light, displaying only colors without messages.





Increment/Decrement Value

This button allows addition or subtraction from a value using two predefined tags and a preprogrammed value. Once pressed, this object will read the value from the first tag, add/subtract the value defined, and write the new value to the second tag.



Static Text



Place text anywhere on the screen to provide information, screen description, etc. As with any other object, you can fully customize the colors and size, choose whether to display a frame or not, and whether or not you want its background to be transparent.

Trigger Text



This object monitors a bit to display different text strings for "ON" and "OFF" conditions. This would be used in applications where you want to provide a message or a description of the process or condition.

Lookup Text



Similar to the Multi-state indicator object, create a Lookup Text object to display pre-programmed messages within a frame on the screen. The difference is these messages are stored in the "Message Database" which acts as a global database for any lookup text object to reference throughout the project. A value corresponding to the tag name is the message number that will be displayed inside the frame. Messages are numbered from 1 to 999, so if the value corresponding to the tag name is 10 for example, the message number 10 will be displayed.

Dynamic Text



The Dynamic Text object will allow you to display the characters from ASCII values stored in a Tag. The tag will read a block of registers in the PLC. Each 16-bit register in the PLC can contain 2 ASCII characters. The maximum number of PLC registers in the block is 20 (a maximum of 40 ASCII characters). This object is typically used for displaying part numbers, VIN numbers, or production numbers. Dynamic Text is triggered by a bit Tag in the PLC. You choose whether the Text is triggered by the bit when it is in the ON state or the OFF state. The Dynamic Text object will then display a text string that is programmed in the PLC.

Text Entry



The Text Entry object, when pressed on the panel, brings up a character entry (alphanumeric) keypad. This allows the operator to enter text up to 40 characters to send to a tag assigned to an address in a PLC.

It has many uses, some of which may be: to send part numbers or production numbers to a PLC, or to send a message to a PLC that will, in turn, route it to one or more plant floor message display(s), such as EZMarquee.



EZSeries TouchPLC Objects

Adjust Contrast

Use the Adjust Contrast object to place a button on the EZSeries Touchpanel screen that gives you access to the panel's adjust contrast feature. Use the UP and DOWN arrows that appear on the bottom to adjust the screen contrast.



Increment/Decrement Hour

Place an object on the screen that allows you to adjust the hour (up or down) of the internal Real-time clock.



Activate Screen Saver

Place a button on the screen that enables you to activate the panel screen saver, to lengthen the longevity of the panel.



Select Language

This object allows the operator to change the language by pressing the button on the panel. Text that has been programmed for that language will convert to the language that the operator selects.



EZSeries Editor allows you to create Dynamic Bitmaps, Multi-state Bitmaps, Button Bitmaps, and Static Bitmap Objects in a breeze.

There is a built in library of 4,000 objects available for you to copy and paste directly to a project screen and use them in any arrangement or position them just the way you like.



Static Bitmap

A static bitmap lets you simply display a bitmap which can be resized within the editor and stays static on a screen, e.g. a company logo.

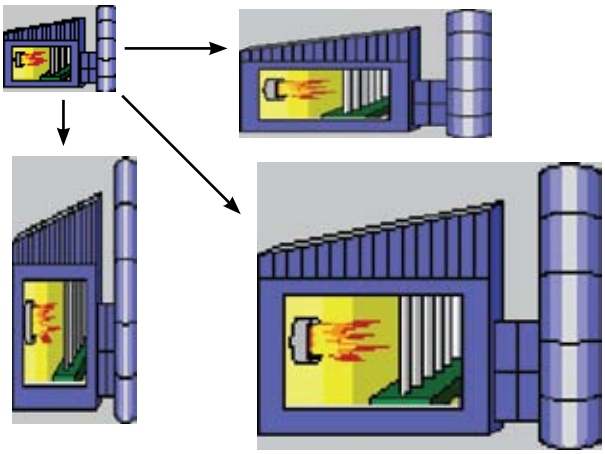
All bitmaps can be imported, copied from the clipboard, or pulled in from the symbol factory (as shown to the right) and the EZSeries Touchpanel supports the following formats: .bmp, .wmf, .emf, .gif, .jpeg, .jpg, and .ico.



The Symbol Factory's 4,000+ symbols are available to all bitmap objects in the EZSeries Editor's software.

Sizing Bitmap Objects is EZ!

The EZSeries Editor has a patent pending feature that saves the programmer from having to size a bitmap in another photo editing software, and then bring it onto the screen. You can size an object whichever way you want it within the EZSeries Touchpanel Editor itself. It saves you the headache of going back and forth between two software programs.



Innovate'n'Save™

EZSeries TouchPLC Objects

Bitmap Button

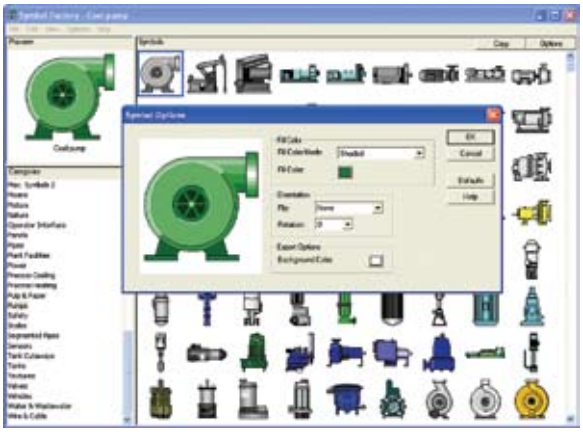
The Bitmap Button object allows the use of bitmaps for the ON/OFF states, instead of text or colors. For example, you could place a throw switch and static text labeling on/off states. When the operator presses the switch, the bitmap is replaced with the OFF state bitmap, showing the switch down. This is a simple toggle between ON/OFF states. You can also have buttons stay ON or turn OFF only when the operator is pressing the button, as shown farther right. There is even one more option in which a button, once pressed, can only be turned ON or OFF by a non-HMI source, like a PLC.

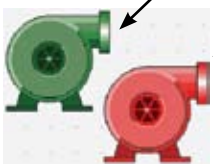


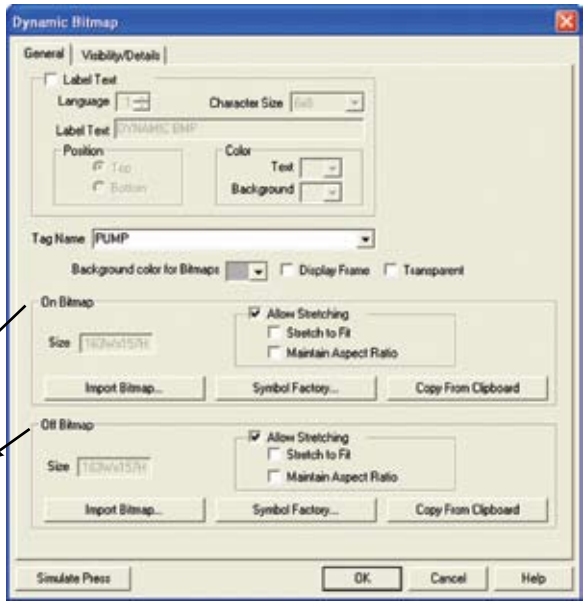
Dynamic Bitmap

A Dynamic Bitmap object, while not an interactive button, can show a dynamic visual representation of a process. Simply select a bitmap to represent the process running and another to represent the process not running, as the ON/OFF states of the bitmap.

For example, if your process uses a pump, and you want a visual representation of when the pump is on or off, then select the dynamic bitmap object. Click the symbol factory button from the On Bitmap section of the dialog box to access the symbol factory. After selecting the pumps category from the list on the bottom left and then the desired pump, click Options. This gives you the ability to change the object's shading, color, orientation, etc.
When finished and out of the Symbol Options box, click Copy, which copies the bitmap to the clipboard. Then click Copy From Clipboard. This places the symbol into the object's On Bitmap state. Repeat these steps for the Off Bitmap, and you are done!





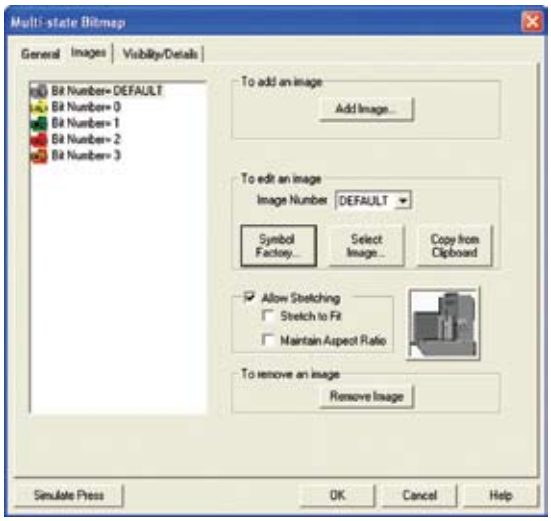


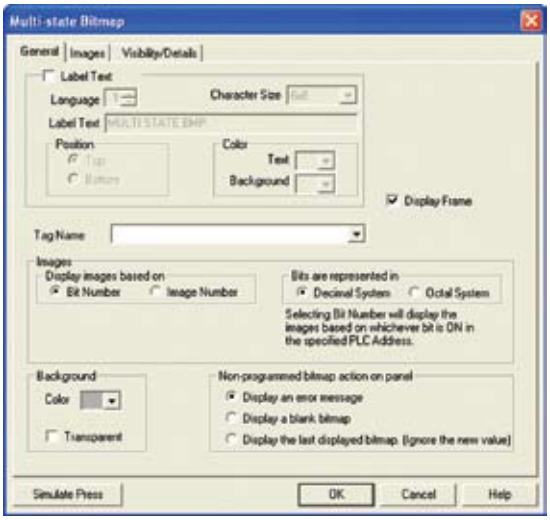
Innovate'n'Save™

Multi-state Bitmap

Similar to the Multi-state Indicator, this object displays predefined bitmaps instead of messages. Choose up to 16 different bitmaps to represent various conditions of a process. The bitmap shown is based on the value of a bit in a word or a word address. The example below shows how an operator would know the condition of the machine based on the colored bitmap which is displayed.







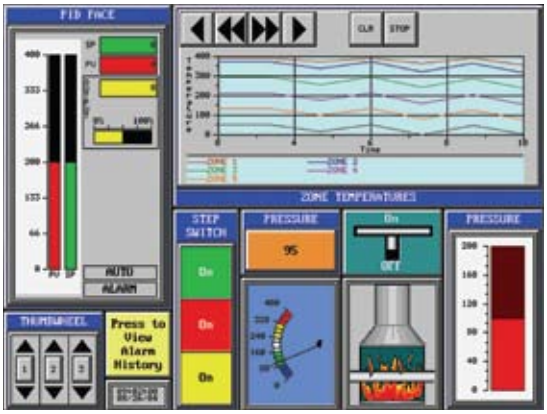
EZSeries™ TouchPLC™ It is Very EZ to Program an

EZSeries TouchPLC has earned it's name!

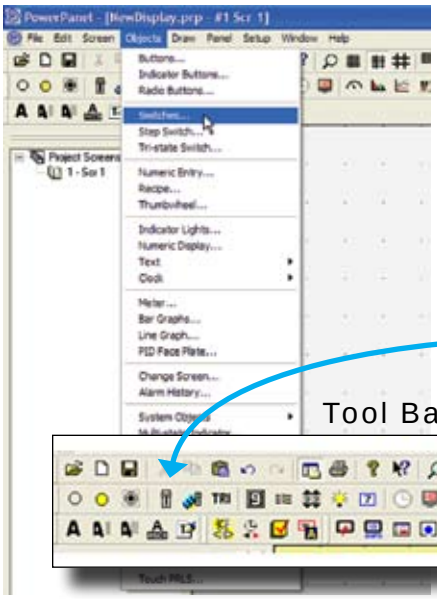
We named it EZSeries TouchPLC for a reason. We made an easy to use, simple operator interface attached to a powerful micro-modular PLC that will save you a lot of engineering hours and design time due to its simplicity and ease of use. You don't need prior programming knowledge to design a screen. It is Intuitive, it is Simple!

The only assumptions are:

- You are familiar with Windows-based environments
- You have a good understanding of your PLC memory's address formats



The following example shows **just how EZ it is to create an object:**





1 Select an Object

A) Click on "Objects" on the main menu bar

B) Select the object you wish to create. In this example, click on "Switches".

You may also select an object from the tool bar below the main menu.



2 Fill in the Dialog Box

A) Click the style of switch you wish to use.

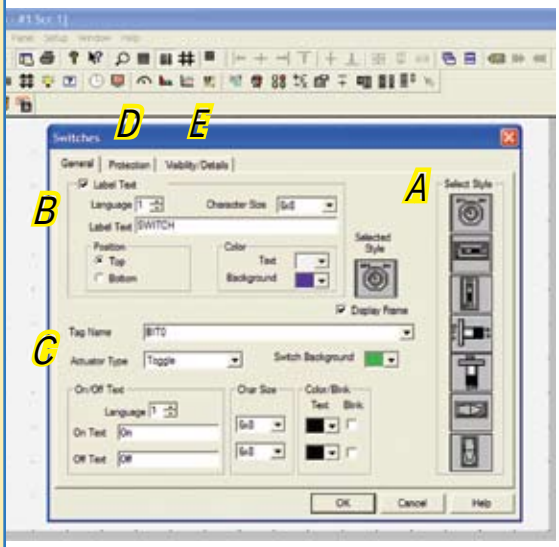
B) Select "Label Text". This will allow you to name and customize the object.

C) Select or create a PLC bit address tag that the "Switch" will activate.

D) If you need password protection, click on the "Protection" tab at the top of the dialog box.

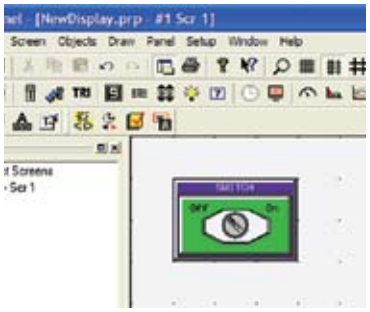
E) If you wish to keep this object invisible until a PLC tag is triggered, click on "Visibility/Details".

Visibility will be discussed later in detail.



3 Placing the Object

Click your mouse on the screen and stretch the object to your desired size. If you want to edit the object again, simply double click on it and the configuration dialog box will reappear. There is even a "Simulate" button on the dialog box for some objects so you can see how objects will work in real time.

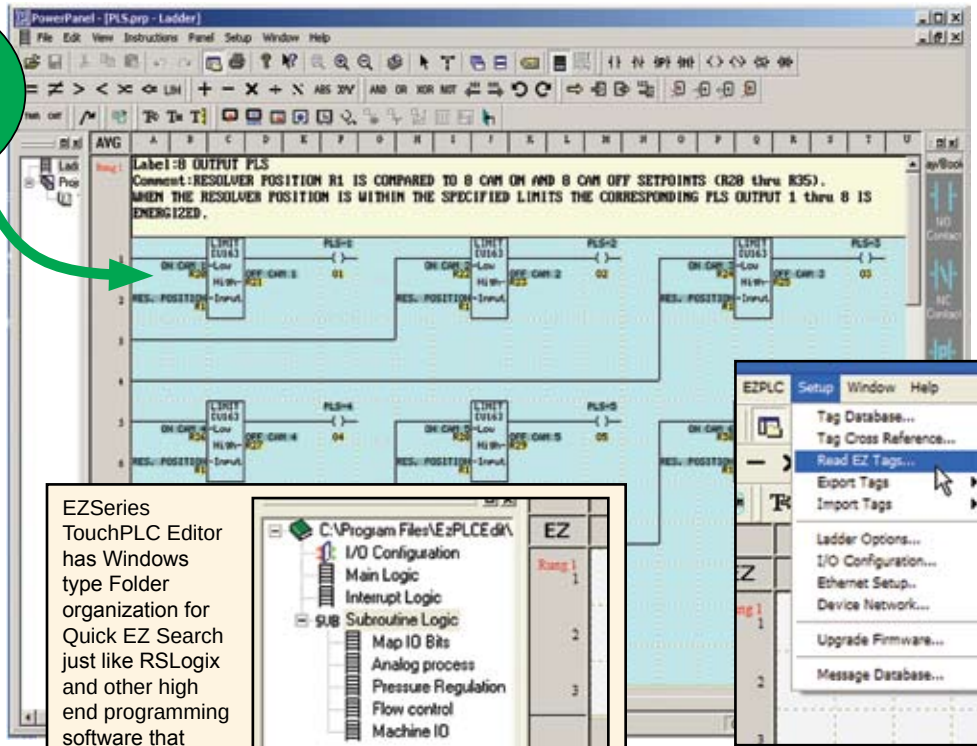


Innovate'n'Save™

EZSeries TouchPLC with Shared Databases

Just One Rung!

The concept of this patent pending Free Flow Ladder Logic is to create less restricted rungs of logic. This saves the user rung space and valuable scan time. On the right you will see an example of Free Flow Ladder-Logic. As you can see the Free Flow logic allows logic to be placed and connected anywhere in the rung rather than creating a new rung. This allows the user to spend more time on other parts of the machine development and let the CPU do more of the work of solving the logic.



EZSeries TouchPLC Editor has Windows type Folder organization for Quick EZ Search just like RSLogix and other high end programming software that costs thousands of dollars. The EZSeries TouchPLC Editor has a structured programming software. You do not have to scroll through literally hundreds of rungs to find your I/O mapping, subroutines or interrupts.

Touch Panel tags can easily be read by the EZPLC.

Advanced Instructions:

32-bit floating point calculations

The EZPLC supports 32-bit floating point mathematical and logical operations. The data options allow you to use signed or unsigned integer data as well as floating point data type.

Data Conversion

This instruction is meant to make ladder programming EZ and flexible. You can copy the data in one register, convert its data type and save it into another register without altering the 'source' register. The data can be converted from binary to BCD or grey code or vice versa.

Move Block

This instruction adds convenience to handling data inside the ladder program. You can move blocks of memory. All you need to specify is starting point of your source address, number of data elements to move and starting point of destination memory address. Along with Move Block, Fill Block and Move table of Constants also make life of a programmer much simpler.

String

These instructions operate on ASCII string data type. You can Move string data between registers, base rung power flow upon string comparison and compute string length to store the length value in a different register.

Subroutines

Capability to use subroutines is a huge plus in EZPLC programming. For large and complex programs, user can define many subroutines and use them in the main ladder program. These subroutines can be called from the main logic. Return instruction allows user to return to the main logic at any step.

Drum Sequencer

This is a time or event based sequencer that updates up to 16 outputs per step, up to 16 steps. Time base of each count is user defined and each step has its own counter. User can define an event to trigger the count. The rung power flow is allowed after completion of all the steps in a drum.

Marquee Instructions

Now you don't have to spend days to send signals to your marquee. Send to marquee instruction allows you to communicate to the marquee via ASCII strings. A unique message number is assigned to each message in the message database. This instruction looks up the message number, corresponding to the intended message to be displayed and sends it to the marquee. User can define actions if a message number cannot be found in the database.

Interrupt Routine

This is how your EZPLC would process external events that require "instantaneous" response. User can write a separate interrupt logic routine. At the instance of an external event, the PLC would interrupt the main logic, execute this interrupt logic on a priority, and scan corresponding I/O. It would return to the main logic automatically after processing the interrupt routine.

ASCII Instructions

User can send/receive ASCII string data to/from any register in PLC to a predefined serial port. User can also define the Control address and character count of the source register. Similarly, user can send ASCII string data to a Marquee directly from the main logic.

Bit Move Instructions

Bit move instructions allow the user to move word data from a register type memory address to a bit in a discrete memory location and backward.

For detailed information, see the PLC Programming Instructions on page 8-35 in the EZPLC section.

Unique On-Line Programming Makes Project Design and Start-Up EZier

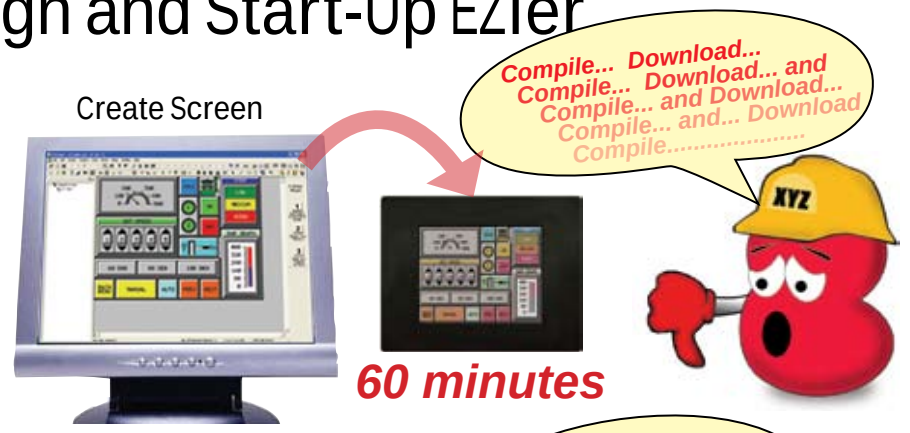
Patent Pending

Innovate'n'Save™

THEIRS

1. Create Screen - 20 minutes
2. Compile and Download to Panel, minimum 5 minutes
3. Check it out on the Panel
4. Change colors, fonts, object sizes an average of 4 times, 5 minutes each

Time to develop and finalize one screen - 60 minutes



OURS

1. Create a couple of objects
2. Click Save (also transfers to panel instantaneously) to see how they look on Panel
3. Add more objects, click save again

NO COMPILATION OR DOWNLOADS!

Time to develop and finalize one screen - 10 minutes



It's like developing screens right on your panel



During machine start-up, you can simply plug your computer into Panel's Programming Port and:

1) Create a Troubleshoot screen
2) Create a troubleshoot button on main screen.
3) Disable critical outputs
4) Monitor registers and/or specific bits in your ladder logic... ***without ever having to shut down the machine!***

You know the power of **On-Line programming** if you deal with machine/process start-up



1 Connect Computer to Panel



2 Create a temporary **Troubleshoot Screen in "Edit On-Line" Mode**

3 **Troubleshoot without** ever having to shut down the machine

Eliminates the need to go through hundreds of ladder **rungs to troubleshoot the logic**

It's like having a FREE On-Line Debug Tool

This Low Cost Automation Controller also **has Great Connectivity to DeviceNet, Profibus,** Ethernet TCP/IP, Modbus TCP/IP and Ethernet IP

All EZSeries TouchPLC models can be ordered **with Ethernet, DeviceNet and Profibus** connectivity through separate part numbers.

Ethernet TCP/IP with Modbus and Ethernet IP for Allen Bradley PLCs

$99



All EZSeries TouchPLC models are available with built-in high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows EZSeries TouchPLC to reside on a 10 Mbps TCP/IP network (10Base T Ethernet) via an RJ45 port with Modbus TCP/IP and Ethernet IP protocols. Use Ethernet models for easy Ethernet programming with 100 meters being the maximum distance between two nodes. For distances greater then 100 meters repeaters can be used to extend the distance between any two nodes.

DeviceNet Slave Module

$79



EZSeries TouchPLC models when ordered with built-in DeviceNet Slave communication interface provide DeviceNet connectivity in addition to RS232 and RS422/485 communication ports. DeviceNet communication interface for EZSeries TouchPLC provides a digital, multi-drop network that can be used for communicating with DeviceNet enabled controllers and I/O devices. On DeviceNet network every device acts as a node and allows multiple communication hierarchies and prioritization of messages. EZSeries TouchPLC with DeviceNet communication interface can be configured in a master-slave control architecture as a slave node and allows peer-peer communication. DeviceNet control system provides a single point of connection both for configuration and support for I/O as well as explicit messaging.

Profibus

$139



All EZSeries TouchPLC models are available with built-in Profibus Slave communication interface in addition to RS232 and RS422/485 communication ports. This gives EZSeries TouchPLC the ability to link with a Profibus Master Controller. Profibus is a vendor independent open field bus protocol standard in manufacturing automation and process control. It reduces hard-wiring costs and provides specifications for information exchanged between nodes of a Profibus network. This communication interface provides the ability to transfer data between a Profibus master and EZSeries TouchPLC.The Profibus communication interface also has an auto-detect feature for the baud rate of the Profibus network.

Built-in RS422/485 Port to Communicate to External Devices such as Drives, Message Displays or Temperature Controllers



Barcode Printer



EZSeries **TouchPLC**

AC Drive



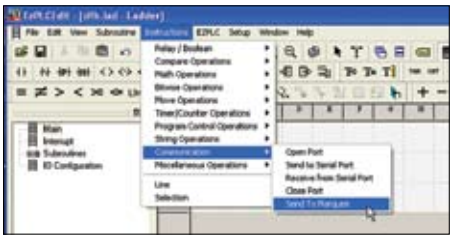


EZMarquee



RS485 Cable

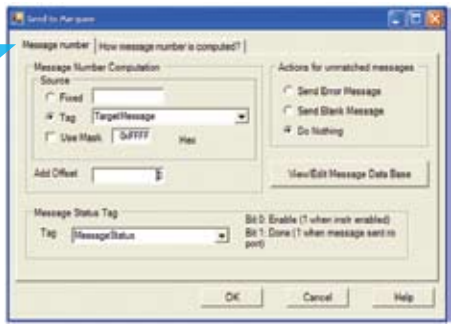
1 **Use EZSeries TouchPLC's "Send to Marquee" instruction to initiate communication with EZMarquee.**



NO COURSE EZ SOFTWARE REQUIRED

2 **Configure your message's source tag and status tag.**





3 **Control your message attributes without ever having to worry about ASCII format**



Type in your message along with it's attributes like character size, color, and effects like scrolling or blinking. Preview the message to edit any changes.



EZSeries™ TouchPLC™ Selection Guide and Specs

EZSeries TouchPLC Model Specifications								
EZTouch PLC	EZP-S6W-RS-PLC $510 EZPP-S6W-RS-PLC $569	EZP-S6M-FS-PLC $662 EZPP-S6M-FS-PLC $712	EZP-S6C-FS-PLC $910 EZPP-S6C-FS-PLC $960	EZP-T6C-FS-PLC $1110 EZPP-T6C-FS-PLC $1160	EZP-S8C-FS-PLC $1099 EZPP-S8C-FS-PLC $1199	EZP-T8C-FS-PLC $1549 EZPP-T8C-FS-PLC $1649	EZP-T10C-FS-PLC $1849 EZPP-T10C-FS-PLC $1949	EZP-T15C-FS-PLC $2649 EZPP-T15C-FS-PLC $2749
EZTouch PLC w/ Ethernet	EZP-S6W-RS-PLC-E $609 EZPP-S6W-RS-PLC-E $659	EZP-S6M-FS-PLC-E $761 EZPP-S6M-FS-PLC-E $811	EZP-S6C-FS-PLC-E $1009 EZPP-S6C-FS-PLC-E $1059	EZP-T6C-FS-PLC-E $1209 EZPP-T6C-FS-PLC-E $1259	EZP-S8C-FS-PLC-E $1198 EZPP-S8C-FS-PLC-E $1298	EZP-T8C-FS-PLC-E $1648 EZPP-T8C-FS-PLC-E $1748	EZP-T10C-FS-PLC-E $1948 EZPP-T10C-FS-PLC-E $2048	EZP-T15C-FS-PLC-E $2748 EZPP-T15C-FS-PLC-E $2848
EZTouch PLC w/ DeviceNet	EZP-S6W-RS-PLC-D $589 EZPP-S6W-RS-PLC-D $639	EZP-S6M-FS-PLC-D $741 EZPP-S6M-FS-PLC-D $791	EZP-S6C-FS-PLC-D $989 EZPP-S6C-FS-PLC-D $1039	EZP-T6C-FS-PLC-D $1189 EZPP-T6C-FS-PLC-D $1239	EZP-S8C-FS-PLC-D $1178 EZPP-S8C-FS-PLC-D $1278	EZP-T8C-FS-PLC-D $1628 EZPP-T8C-FS-PLC-D $1728	EZP-T10C-FS-PLC-D $1928 EZPP-T10C-FS-PLC-D $2028	EZP-T15C-FS-PLC-D $2728 EZPP-T15C-FS-PLC-D $2828
EZTouch PLC w/ Profibus	EZP-S6W-RS-PLC-P $639 EZPP-S6W-RS-PLC-P $689	EZP-S6M-FS-PLC-P $801 EZPP-S6M-FS-PLC-P $851	EZP-S6C-FS-PLC-P $1139 EZPP-S6C-FS-PLC-P $1189	EZP-T6C-FS-PLC-P $1239 EZPP-T6C-FS-PLC-P $1289	EZP-S8C-FS-PLC-P $1228 EZPP-S8C-FS-PLC-P $1328	EZP-T8C-FS-PLC-P $1678 EZPP-T8C-FS-PLC-P $1778	EZP-T10C-FS-PLC-P $1978 EZPP-T10C-FS-PLC-P $2078	EZP-T15C-FS-PLC-P $2778 EZPP-T15C-FS-PLC-P $2878
								
Specifications	6" White on Blue	6" STN Mono	6" STN Color	6"TFT Color	8" STN Color	8" TFT Color	10" TFT Color	15" TFT Color
Display Type	5.7" STN (4 Shades of Blue) 320 x 240	5.7" STN (16 Shades of Gray) 320 x 240	5.7" STN (128-color palette) 320 x 240	5.7" TFT (128-color palette) 320 x 240	8.2" STN (128-color palette) 640 x 480	8" TFT (128-color palette) 640 x 480	10.4" TFT (128-color palette) 640 x 480	15" TFT (128-color palette) 640 x 480
Brightness/Life	140 nits/50,000 hours		200 nits/40,000 hours	400 nits/75,000 hours	140 nits/25,000 hours	370 nits/54,000 hours	400 nits/50,000 hours	250 nits/55,000 hours
Touch Screen	48 Resistive Touch Cells (8x6)	192 Resistive Touch Cells (16x12)						
Num of Display Screens	Up to 999 Limited by display memory							
Display Screen Saver	Yes, Backlight Off							
HMI User Memory	256K HMI RAM Mem.	512K HMI RAM Memory						1MB HMI RAM Memory
Maximum I/O Capacity	4 Slot Base (32I/O Max)				8 Slot Base (64I/O Max)			
Maximum Power Consumption	20 Watts @ 24VDC	22 Watts @ 24VDC	23 Watts @ 24VDC	25 Watts @ 24VDC	27 Watts @ 24VDC	29 Watts @ 24VDC	29 Watts @ 24VDC	33 Watts @ 24VDC
Processors	Two 32 Bit, 40 MHz RISC Processors (One for PLC and One for HMI)							
Total PLC Memory	64 KB (Ladder)							
# of PLC Registers	8192 16Bit, 8192 Variables							
PLC Typical Scan Time	3ms (1K Boolean)							
Real Time Clock/Cal.	Built-in							
Battery Backup	Yes, Lithium coin cell battery with 5 year life expectancy, with a low battery indicator							
PLC LED Indicators	Input Power, CPU Status (Run, Program & Run/Program), Low Battery, Program PLC and Run Mode LED indicators							
I/O Supported	EZIO Snap-in modules with status LEDs and Removable Terminal Block; DC / AC / Analog / Relay / Thermocouple / High Speed Counter							
Electrical Noise	Nema ICS 2-230 Showering arc; ANSI C37.90a SWC; Level C Chattering Relay Test							
Withstand Voltage	1000VDC (1 minute) between power supply input terminal and protective ground)							
Insulation Resistance	Over 20M Ohm between power supply input and terminal and protective ground							
Enclosure	Nema 4, 4x (indoor)							
Operating Temperature	0 to 45°C (32 to 113°F)		0 to 50°C (32 to 122°F)	0 to 55°C (32 to 131°F)	0 to 50°C (32 to 122°F)	0 to 55°C (32 to 138°F)		
Storage Temperature	-20 to 60°C (-4 to 140°F)			-25 to 65°C (-13 to 149°F)	-25 to 60°C (-13 to 140°F)	-25 to 65°C (-13 to 149°F)		
Vibration	5 to 55Hz 2G's for 2 hours in X,Y,and Z axis							
Shock	10G for under 12ms in the X,Y, and Z axis							
Humidity	10-95% Non-Condensing							
Protocols Supported	ASCII In/Out; EZ Protocol, Ethernet, DeviceNet Slave, and Profibus Slave for communicating to PLC							
Built-In Serial Communication Ports	Port 1: RS232 (Programming and HMI Port Only) Port 2: RS422 (1.2K, 2.4K, 4.8K, 9.6K, 19.2K, and 38.4K Baud Rates supported)							
Agency Approval	UL, CUL, CE (pending)							
External Dimensions	8.048" x 6.145" x 3.896" (204.41 x 156.08 x 98.95mm)				10.894" x 8.748" x 3.852" (276.71 x 222.20 x 97.85mm)		13.584"x10.594"x3.856" (345x269.1x97.95mm)	16.75"x13"x5.678" (425.45x330.2x144.02mm)
Weight	2 lbs				3.5 lbs		4.5 lbs	7.5 lbs

EZSeries™ TouchPLC™

EZSeries TouchPLC saves 40% to 85% over Competition!





Innovate'n'Save™

Features	EZAutomation EZSeries TouchPLC	Automation Direct DL205 & C-More	Automation Direct DL205 & C-More	Allen Bradlley MicroLogix 1100 & PV500	Allen Bradlley CompactLogix L20 & PV500
Space Requirement	Ideal for Machine Control which is tight on space and tight on budget, Does not require second enclosure	Requires 2 seperate enclosures or a larger one	Requires 2 seperate enclosures or a larger one	Requires 2 seperate enclosures or a larger one	Requires 2 seperate enclosures or a larger one
Additional cabling, terminal blocks & wiring	NO	Yes between HMI and PLC	Yes between HMI and PLC	Yes between HMI and PLC	Yes between HMI and PLC
Number of individual softwares	Single software with shared tags	Two	Two	Two	Two
32 I/o system with 16 DI Input, 8 Digital Output, 4 Analog Input and 4 Analog Ouput and 6" Operator Interface without software	EZ-S6W-RS-PLC - $510 2 @ EZIO-8DCI - $44 EZIO-8DCOP - $22 EZIO-4ANIANOC- $109 Total - $685	D2-260 - $299 D2-16ND3-2 - $82 D2-08TD2 - $52 F2-04AD-1 - $199 2@F2-02DA-1 - $312 D2-06BDC1-1 - $175 EA7-S6M-R - $534 EA-2CBL - $20 Total - $1653	D0-06DD1-D - $199 2@F0-4AD2DA-1 -$370 EA7-S6M-R - $534 EA-2CBL - $20 Total - $1123	1763-L16BBB $550 1763 -MM1-$150 1763-NC01-$40 1762-IQ16-$176 1762-0B8 - $149 2 @ 1762-IF2OF2-$638 2711-T5A1611 - $1070 Total - $2773	1769 -PB2 - $280 1769 -L20 -$1195 1769-IQ16 -$247 1769-OV16-$296 1769-0B8 - $149 1769-IF4OF2-$603 1769-OF2- $504 2711-T5A1611 - $1070 Total - $4344
Programming Software	EZ-TouchPLC- Edit - $99	EA7-PGMSW - $129 for C- More PC-DSoft - $395 for DI 205 USB-CBL-AB-15 - $15 D2-DSCBL - $30 Total - $ 569	EA7-PGMSW - $129 for C- More PC-DSoft - $395 for DI 205 USB-CBL-AB-15 - $15 D2-DSCBL - $30 Total - $ 569	9701-VWSTMENE - $650 9324-RL0100ENE - $529 Total - $ 1179	9701-VWSTMENE - $650 9324-RLT300ENE - $6900 Total - $ 7550

EZSeries™ TouchPLC™ RAM, Flash Card and Other Accessories

Delivery Status: STK

Part Number	Description	Price
EZ-TOUCHPLC-EDIT	EZSeries TouchPLC Programming Software	$99
EZ-TOUCHPLC-M	Hardware User Manual	$15
EZ-RAM-1	512K RAM Card	$50
EZ-RAM-2	1MB RAM Card	$97
EZ-FLASH-1	512K Flash Card	$46
EZ-FLASH-2	1MB Flash Card	$56
EZ-FLASH-3	2MB Flash Card	$80
EZ-BAT	Replacement 1/2 AA, 3.6 volt Lithium Battery	$20
EZ-BRK-1	EZTouch optional DIN Mounting Clips (pk. of 2)	$15
EZ-COMCON3	15-pin male D-sub connectors with terminal blocks, for connecting RS422 network cable from EZTouch or EZText panels	$19
EZ-PANEL6-GSK	(6") Standard Replacement Gasket for all 6" panels	$8
EZ-PANEL8-GSK	(8") Standard Replacement Gasket	$8
EZ-PANEL10-GSK	(10") Standard Replacement Gasket	$8
EZ-PANEL-STUDS	Spare mounting studs (four with nuts)	$8
EZ-6SLIMF-GSK	(6") Slim bezel FDA replacement gasket	$8
EZ-8SLIMF-GSK	(8") Slim bezel FDA replacement gasket	$25
EZ-10SLIMF-GSK	(10") Slim bezel FDA replacement gasket	$30
EZ-15SLIMF-GSK	(15") Slim bezel FDA replacement gasket	$34
EZ-COV6	Pack of 3 protective shields for any 6" EZTouch panel	$20
EZ-COV8	Pack of 3 protective shields for any 8" EZTouch panel	$34
EZ-COV10	Pack of 3 protective shields for any 10" EZTouch panel	$38
EZ-COV15	Pack of 3 protective shields for any 15" EZTouch panel	$56

EZSeries TouchPLC's Firmware is stored in the internal Flash memory of the panel which can be field upgraded through it's programming port.

The user program resides in the battery backed RAM of the panel. A backup battery provides power to the unit when external 24VDC power input is not present. If the backup battery is removed while the unit is without external 24VDC power, the user program residing in the RAM of the unit will be lost.

Optional FLASH Card

Flash cards for EZSeries TouchPLC are used for backup of user HMI programs. There are three sizes of flash cards available (512K, 1MB, and 2MB). When an EZSeries TouchPLC powers up it always checks for a flash card. If present, it loads the user HMI program from the flash card into the RAM of the panel.

1. Use flash cards for backing up user HMI programs. If the user program gets corrupted you will always have a backup copy for immediate transfer to a panel without the need of a PC.
2. Take advantage of programming multiple units without a PC just by powering them up with the flash card installed. Once the unit powers up, the flash card can be removed and the user-program will reside in the RAM of the panel.
3. OEMs can distribute upgrades/updates of applications on flash cards which can be utilized by Users to transfer the updated/upgraded user-programs to the RAM of a panel without the need of a PC.

Optional RAM Card

There are two sizes of plug-in RAM cards available, 512K and 1MB RAM, for expanding the available RAM on a panel. For most applications, the available RAM is more than sufficient for typical user-programs. For applications utilizing extensive bitmaps and/or screens can take advantage of plug-in RAM cards for expanding program storage space.

Delivery Status: STK

Part Number	Description	Price
EZIO-M	Hardware User Manual for EZI/O Modules	$25
EZPLC-CM	Hardware User Manual for DeviceNet, Profibus and Ethernet options	$25
EZPLC-BAT	EZPLC Replacement Battery	$20
EZ-PGMCBL	Programming Cable	$20
EZIO-DUMMY	Dummy Module for Open Slots	$5
EZIO-TERM11	11 Pin Removable 3.5mm Phoenix Terminal Block	$5
EZPLC-TERM5	5 Pin Removable 3.5mm Phoenix Terminal Block	$4
EZ-DNTERM5	DeviceNet 5 Pin Field Terminal Block	$8
EZ-BRK-2	DIN clips (pk. of 4)	$34
EZ-COMCON3	15-pin male D-sub connector with terminal blocks, for connecting RS422 network cable from EZTouch or EZText panels	$19
EZ-COMCON4	9-pin female D-sub connector with terminal blocks	$19
EZ-TOUCHPLC-M	Hardware User Manual For All EZSeries Touch-PLCs	$35
EZIO-PRGM ***EZIOP-PRGM***	EZIO Program Storage Module for Snap-in I/O EZIO Program Storage Module for Screw-down I/O	$49 $59
EZP-PGMCBL	Programming cable for setup and programming for all EZSeries TouchPLCs. 2 m (6.56ft) RS232 cable with 15-pin D-shell male connector on one end and 9-pin D-shell female connector at the other end.	$16

Configure Your EZSeries TouchPLC

From the most Flexible EZ I/O, Select the Modules Needed for your Applications

26 Different Mix-n-Match Plug-in I/O Modules



	Snap-in	Screw-down	Page
4 Thermocouple Input....4THI	$139	$139	9-28
High Speed Counter, 1 input/4 output....HSCM1	$99	$99	9-29
High Speed Counter, 2 input/4 output....HSCM2	$99	$99	9-29
Resistance Temperature Detector....RTD	$179	$179	9-31
Pulse Width Module....PWM	$179	$179	9-32
Program Storage Module....PRGM	$49	$59	8-16
8 pt 24V DC In....8DCI	$22	$29	9-8
8 pt 24V DC Out Source....8DCOP	$22	$29	9-9
8 pt 24V DC Out Sink....8DCON	$22	$29	9-10
8 pt 24V DC In Fast....8HSDCI	$27	$34	9-11
4 pt 24V DC In, 4 pt 24V DC Out Sink....4DCI4DCON	$22	$29	9-12
4 pt 24V DC In Standard, 4 pt 24V DC In Fast Interrupt....4DCI4DCIF	$27	$34	9-13
4 pt 24V DC In, 4 pt 24V DC Out Source....4DCI4DCOP	$22	$29	9-14
8 pt 110 AC In....8ACI	$34	$39	9-15
8 pt 110 AC Out....8ACO	$34	$39	9-16
4 pt 110 AC In, 4 pt 110 AC Out....4ACI4ACO	$34	$39	9-17
4 pt 24V DC Out Source, 4 pt 110 AC Out....4DCOP4ACO	$34	$44	9-18
4 pt 110 AC In, 4 DC Out Source....4ACI4DCOP	$34	$44	9-19
4 pt 24V DC In, 4 110 AC Out....4DCI4ACO	$34	$44	9-20
8 Analog In Voltage....8ANIV	$109	$119	9-24
8 Analog In Current....8ANIC	$109	$119	9-25
4 Analog In, 4 Analog Out Voltage....4ANI4ANOV	$109	$119	9-26
4 Analog In, 4 Analog Out Current....4ANI4ANOC	$109	$119	9-27
4 pt Relay Out....4RLO	$39	$49	9-21
4 pt 110 AC In, 4 Relay Out....4ACI4RLO	$44	$54	9-22
4 pt 24V DC In Source, 4 Relay Out....4DCIP4RLO	$44	$54	9-23

Program Storage Module

The EZIO-PRGM or EZIOP-PRGM module allows a user to back up PLC program. To back up a PLC program, user places the module in any of the slots in the PLC. Using EZSeries PLC programming software, the user then downloads the program to be backed up to the PLC and issues backup command. User is prompted to indicate all slots in the PLC base which have Backup modules. The programming software then initiates the back-up. LED indicator on the module indicates the back- up activity. Once the modules are programmed with the user-program, they can be taken out after turning the power off.

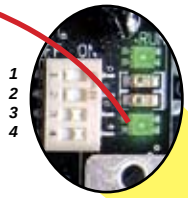


To restore the user program, a user needs to plug-in the backup module in any of the I/O slots of the plc base. On power-up, the plc will detect the backup module, and restore the user program. If the backup module does not have a valid program, the program is not restored.

Switch Settings, Status Indicators and Connections

Operation Set up

SW3	SW4	Tri-Color **LED**	Operation
1	0	Green	Run
0	1	Red	Program
1	1	Amber	Run/Program
0	0	Off	No Operation



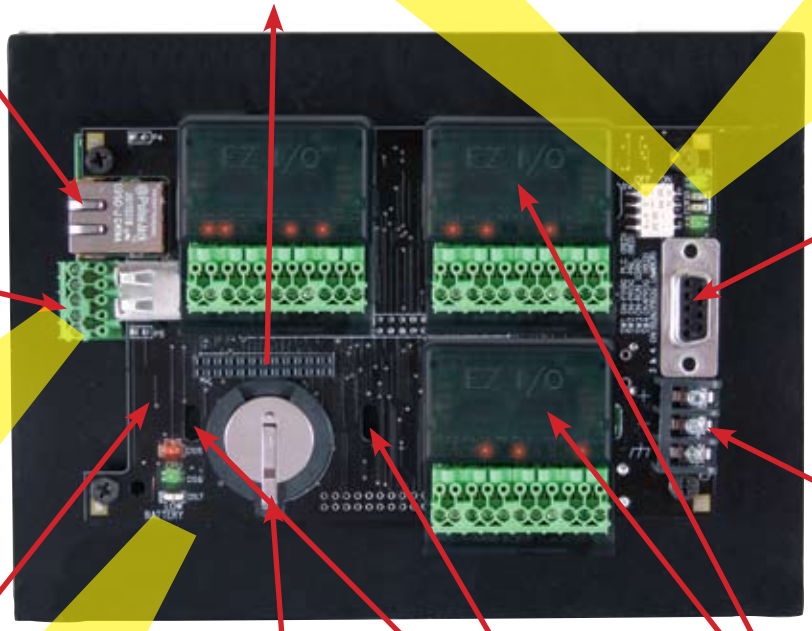
Secondary RS232 Programming Port and Communication Selector

SW1	SW2	**PLC LED**	Panel **LED**	RUN **LED**	Connection
1	0	On	Off	Off	RS232 port to PLC
0	1	Off	On	Off	RS232 port to Panel
1	1	On	On	Off	No Connection
0	0	Off	Off	On	PLC Connected to Text Panel; RS232 port not connected



Optional Ethernet connectivity on Enhanced model

Port for I/O Module



RS232 Programming Port

Used to program PLC or Panel

Pin #	Function
2	TXD
3	RXD
5	Logic GND
Rest	NC

RS422/485 ASCII Port

Used to send ASCII instructions to other devices



24VDC Power Input

Block style connector used to connect an external 24VDC supply

3V Battery Included



Power LED

CPU LED

Low Battery LED

Insert I/O Modules

Snapped into the two slots

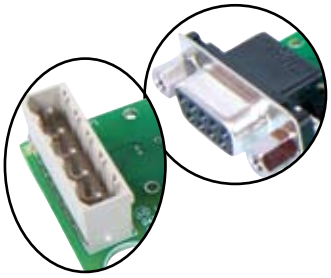
Remove I/O Modules

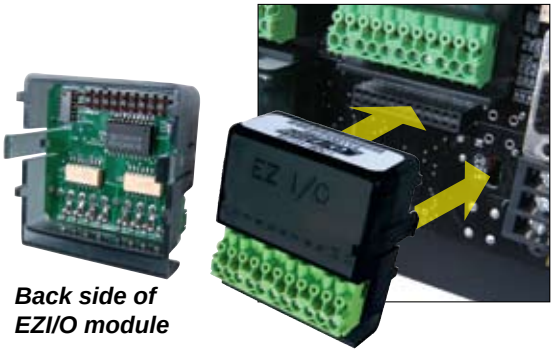
Removed from the slots by pressing the two clips on the side of the module.



DeviceNet, Profibus

Optional Port





Back side of EZI/O module

Caution: Do not use AC output module in the bottom left slot due to height of the battery

EZSeries ToucPLC 6” White on Blue Panel

6” White on Blue EZSeries TouchPLC - Slim Bezel (5.7” STN)

These panels have a 5.7” diagonal touch screen with 320x240 pixel resolution with 4 shades of blue. This panel has an STN LCD (liquid crystal display) and is available with 32 I/O (max) PLC base. I/O modules are not included with EZSeries TouchPLC and can be purchased separately. Please refer to EZI/O section (9) which lists all the available modules along with part numbers and pricing. This panel has a very low slim profile along with a smaller footprint on enclosures.

6” White on Blue models feature:

- 5.7” diagonal White on Blue STN LCD
- 4 shades of blue
- NEMA 4, FDA compliant material
- 320x240 pixel resolution
- 50,000 hour expected bulb half-life
- 1/4” gasket and four DIN mounting clips
- 256K Display RAM, not expandable
- 48 touch cells (8x6)
- 4.1” (104.2mm) installed depth

32 I/O EZPLC BASE

- Total Program/Data Memory 64KB
- 3ms Scantime for 1K Instruction
- RS232 & RS422/485 Ports
- ASCII In/Out
- Built-in Calendar/Clock

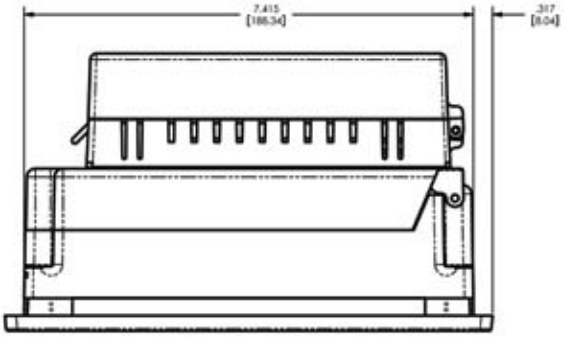


Snap-in I/O

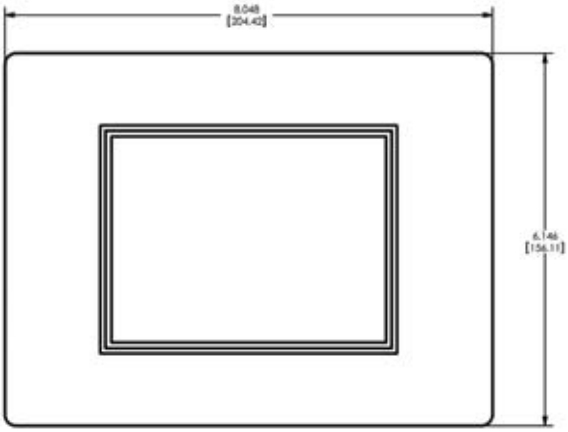
Model Number	Interface	Price	Del.
EZP-S6W-RS-PLC	6” White on Blue, 32 Snap-in I/O EZPLC base, DC Power	$510	STK
EZP-S6W-RS-PLC-E	6” White on Blue, 32 I/O EZPLC base w/Ethernet, DC Power	$609	3DAY
EZP-S6W-RS-PLC-D	6” White on Blue, 32 I/O EZPLC base w/DeviceNet, DC Power	$589	3DAY
EZP-S6W-RS-PLC-P	6” White on Blue, 32 I/O EZPLC base w/Profibus, DC Power	$639	TBRS

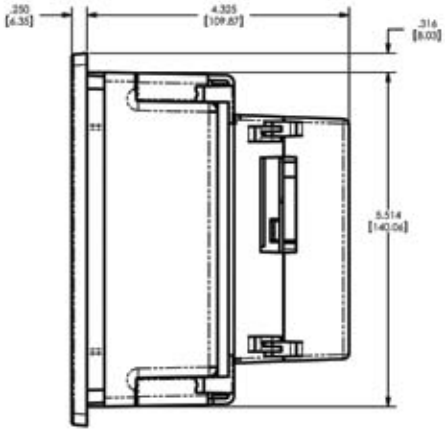
Screw-down I/O

Model Number	Interface	Price	Del.
EZPP-S6W-RS-PLC	6” White on Blue, 32 I/O EZPLC base, DC Power	$569	STK
EZPP-S6W-RS-PLC-E	6” White on Blue, 32 I/O EZPLC base w/Ethernet, DC Power	$659	3DAY
EZPP-S6W-RS-PLC-D	6” White on Blue, 32 I/O EZPLC base w/DeviceNet, DC Power	$639	3DAY
EZPP-S6W-RS-PLC-P	6” White on Blue, 32 I/O EZPLC base w/Profibus, DC Power	$689	TBRS



6” White on Blue
Dimensions





EZSeries ToucPLC 6” Mono Slim Bezel Panels

6” Monochrome EZSeries TouchPLC - Slim Bezel (5.7” STN)

EZSeries TouchPLC’s 6” slim bezel panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These panels have an STN LCD (liquid crystal display) with 16 shades of gray and are available with 32 I/O (max) PLC base. I/O modules are not included with EZSeries TouchPLC and can be purchased separately. Please refer to EZI/O section (9) which lists all the available modules along with part number and pricing. All these panels have a very low slim profile along with a smaller footprint on enclosures.

6” Mono models feature:

- 5.7” diagonal mono STN LCD 16 shades
- NEMA 4, FDA compliant material
- 320x240 pixel resolution
- 50,000 hour expected bulb half-life
- 48 touch cells (8x6)
- 1/4” gasket and four DIN mounting clips
- 4.1” (104.2mm) installed depth
- 192 touch cells
- 512K Expandable RAM for HMI

32 I/O EZPLC BASE

- Total Program/Data Memory 64KB
- 3ms Scantime for 1K Instruction
- RS232 & RS422/485 Ports
- ASCII In/Out
- Built-in Calendar/Clock

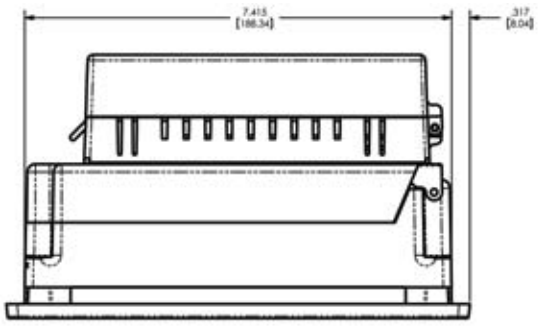


Snap-in I/O

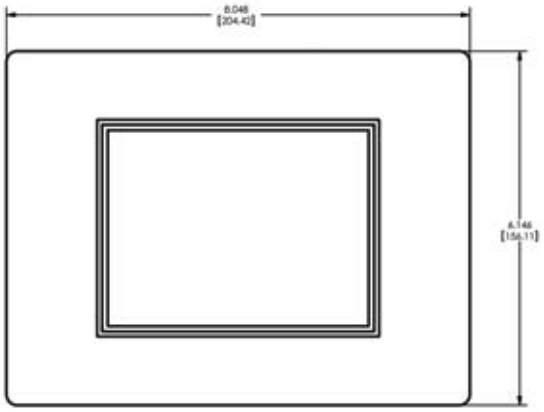
Model Number	Interface	Price	Del.
EZP-S6M-FS-PLC	6” STN Mono, 32 I/O EZPLC base, DC Power	$662	STK
EZP-S6M-FS-PLC-E	6” STN Mono, 32 I/O EZPLC base w/Ethernet, DC Power	$761	3DAY
EZP-S6M-FS-PLC-D	6” STN Mono, 32 I/O EZPLC base w/DeviceNet, DC Power	$741	3DAY
EZP-S6M-FS-PLC-P	6” STN Mono, 32 I/O EZPLC base w/Profibus, DC Power	$801	TBRS

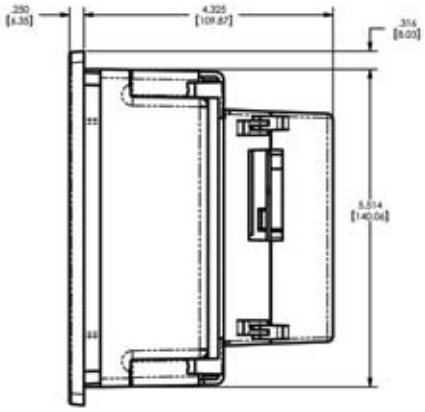
Screw-down I/O

Model Number	Interface	Price	Del.
EZPP-S6M-FS-PLC	6” STN Mono, 32 I/O EZPLC base, DC Power	$712	STK
EZPP-S6M-FS-PLC-E	6” STN Mono, 32 I/O EZPLC base w/Ethernet, DC Power	$811	3DAY
EZpP-S6M-FS-PLC-D	6” STN Mono, 32 I/O EZPLC base w/DeviceNet, DC Power	$791	3DAY
EZpP-S6M-FS-PLC-P	6” STN Mono, 32 I/O EZPLC base w/Profibus, DC Power	$851	TBRS



6” Mono
Dimensions





EZSeries ToucPLC 6” STN Color Slim Bezel Panels

6” Color EZSeries TouchPLC - Slim Bezel (5.7” STN)

These panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These have an STN Color LCD (liquid crystal display) and is available with 32 I/O (max) PLC base. I/O modules are not included with EZSeries TouchPLC and can be purchased separately. Please refer to EZI/O section (9) which lists all the available modules along with part number and pricing. All these panels have a very low slim profile along with a smaller footprint on enclosures.

6” STN Color feature:

- 5.7” diagonal color STN LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 4, FDA compliant material
- 320x240 pixel resolution
- 512K RAM expandable to 1.5MB, display only
- 512K, 1MB or 2MB option flash card for display memory backup
- 40,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips
- 4.1” (104.2mm) installed depth

32 I/O EZPLC BASE

- Total Program/Data Memory 64KB
- 3ms Scantime for 1K Instruction
- RS232 & RS422/485 Ports
- ASCII In/Out
- Built-in Calendar/Clock

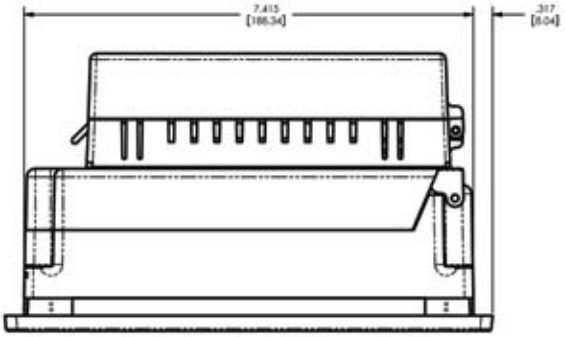


Snap-in I/O

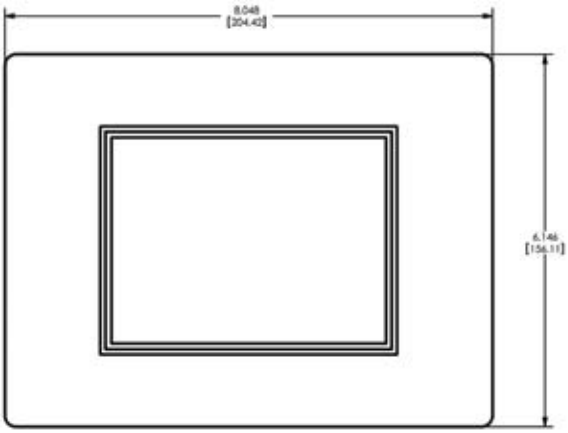
Model Number	Interface	Price	Del.
EZP-S6C-FS-PLC	6” STN Color, 32 I/O EZPLC base, DC Power	$910	STK
EZP-S6C-FS-PLC-E	6” STN Color, 32 I/O EZPLC base w/Ethernet, DC Power	$1009	3DAY
EZP-S6C-FS-PLC-D	6” STN Color, 32 I/O EZPLC base w/DeviceNet, DC Power	$989	3DAY
EZP-S6C-FS-PLC-P	6” STN Color, 32 I/O EZPLC base w/Profibus, DC Power	$1139	TBRS

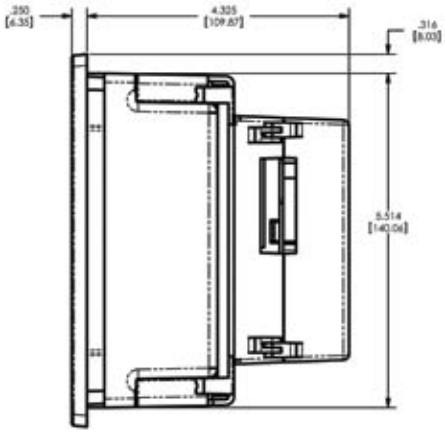
Screw-down I/O

Model Number	Interface	Price	Del.
EZPP-S6C-FS-PLC	6” STN Color, 32 I/O EZPLC base, DC Power	$960	STK
EZPP-S6C-FS-PLC-E	6” STN Color, 32 I/O EZPLC base w/Ethernet, DC Power	$1059	3DAY
EZPP-S6C-FS-PLC-D	6” STN Color, 32 I/O EZPLC base w/DeviceNet, DC Power	$1039	3DAY
EZPP-S6C-FS-PLC-P	6” STN Color, 32 I/O EZPLC base w/Profibus, DC Power	$1189	TBRS



6” STN Color
Dimensions





EZSeries ToucPLC 6" TFT Color Slim Bezel Panels

6" Color EZSeries TouchPLC - Slim Bezel (5.7" TFT)

These panels have a 5.7" diagonal touch screen with 320x240 pixel resolution. These have an TFT LCD (liquid crystal display) and is available with 32 I/O (max) PLC base. I/O modules are not included with EZSeries TouchPLC and can be purchased separately. Please refer to EZI/O section (9) which lists all the available modules along with part number and pricing All these panels have a very low slim profile along with a smaller footprint on enclosures.

6" STN Color models feature:

- 5.7" diagonal color STN LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 4, FDA compliant material
- 320x240 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- 75,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4" gasket and four DIN mounting clips
- 4.1" (104.2mm) installed depth



32 I/O EZPLC BASE

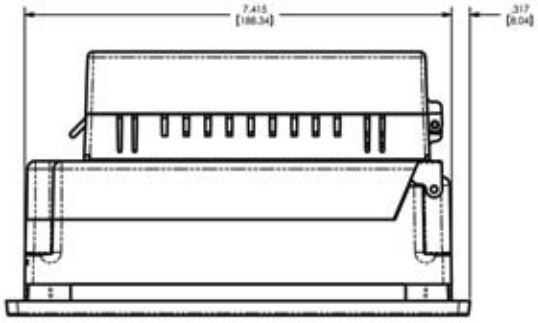
- Total Program/Data Memory 64KB
- 3ms Scantime for 1K Instruction
- RS232 & RS422/485 Ports
- ASCII In/Out
- Built-in Calendar/Clock

Snap-in I/O

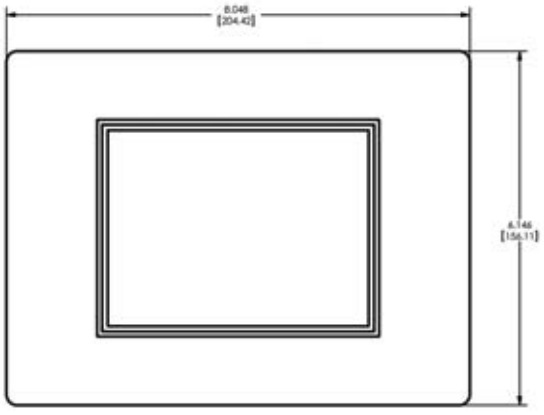
Model Number	Interface	Price	Del.
EZP-T6C-FS-PLC	6" STN Color, 32 I/O EZPLC base, DC Power	$1110	STK
EZP-T6C-FS-PLC-E	6" STN Color, 32 I/O EZPLC base w/Ethernet, DC Power	$1209	3DAY
EZP-T6C-FS-PLC-D	6" STN Color, 32 I/O EZPLC base w/DeviceNet, DC Power	$1189	3DAY
EZP-T6C-FS-PLC-P	6" STN Color, 32 I/O EZPLC base w/Profibus, DC Power	$1239	TBRS

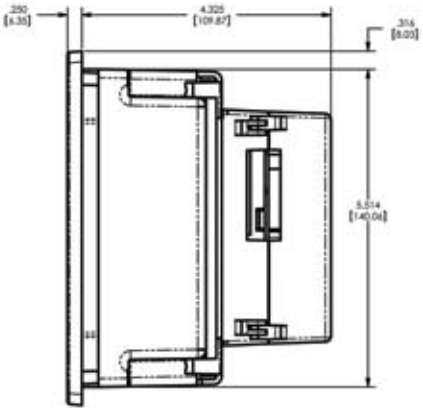
Screw-down I/O

Model Number	Interface	Price	Del.
EZPP-T6C-FS-PLC	6" STN Color, 32 I/O EZPLC base, DC Power	$1160	STK
EZPP-T6C-FS-PLC-E	6" STN Color, 32 I/O EZPLC base w/Ethernet, DC Power	$1259	3DAY
EZPP-T6C-FS-PLC-D	6" STN Color, 32 I/O EZPLC base w/DeviceNet, DC Power	$1239	3DAY
EZPP-T6C-FS-PLC-P	6" STN Color, 32 I/O EZPLC base w/Profibus, DC Power	$1289	TBRS



6" TFT Color
Dimensions





EZSeries TouchPLC 8” STN Color Slim Bezel Panels

8” Color EZSeries TouchPLC - Slim Bezel (8.2” STN)

These panels have an 8.2” diagonal touch screen, with a 640x480 pixel resolution and feature a color STN LCD (liquid crystal display) and is available with 64 I/O (max) PLC base. I/O modules are not included with EZSeries TouchPLC and can be purchased separately. Please refer to EZI/O section (9) which lists all the available modules along with part number and pricing. All models feature a low-profile slim bezel design that provides a small footprint on enclosures.

Features

- 8.2” diagonal color STN LCD, 128 colors
- Low-profile slim bezel design
- NEMA 4, FDA compliant material
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- 25,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips
- 1/4” O-ring gasket and eight mounting studs
- 4.1” (104.2mm) installed depth



64 I/O EZPLC BASE

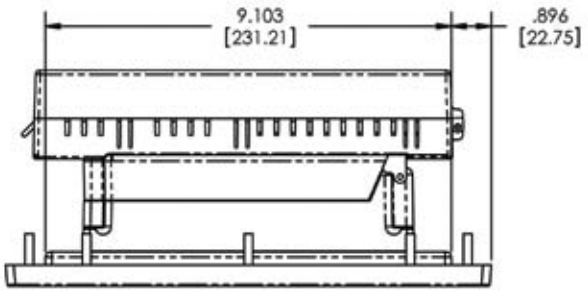
- Total Program/Data Memory 64KB
- 3ms Scantime for 1K Instruction
- RS232 & RS422/485 Ports
- ASCII In/Out
- Built-in Calendar/Clock

Snap-in I/O

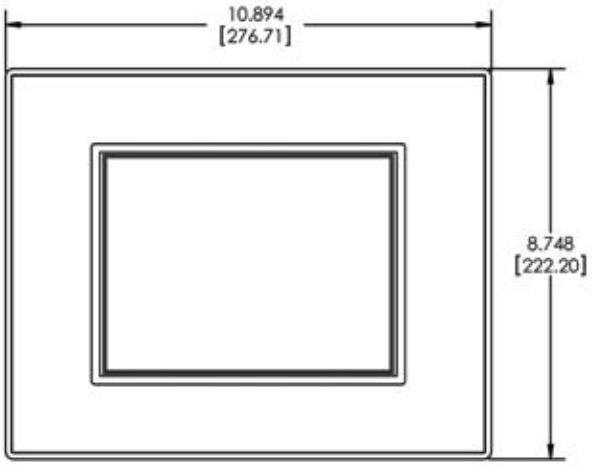
Model Number	Interface	Price	Del.
EZP-S8C-FS-PLC	8” STN Color, 64 I/O EZPLC base, DC Power	$1099	STK
EZP-S8C-FS-PLC-E	8” STN Color, 64 I/O EZPLC base w/Ethernet, DC Power	$1198	3DAY
EZP-S8C-FS-PLC-D	8” STN Color, 64 I/O EZPLC base w/DeviceNet, DC Power	$1178	3DAY
EZP-S8C-FS-PLC-P	8” STN Color, 64 I/O EZPLC base w/Profibus, DC Power	$1228	TBRS

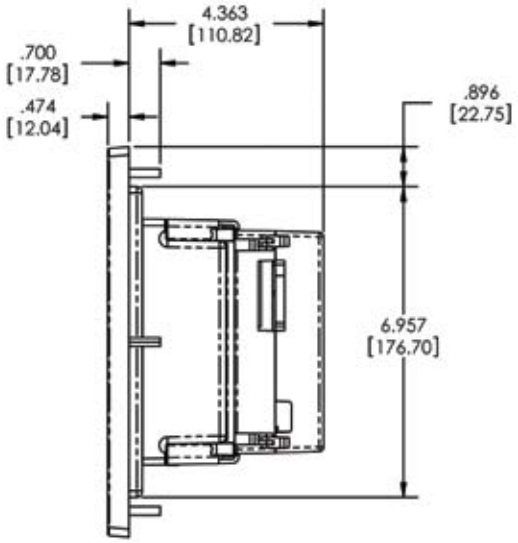
Screw-down I/O

Model Number	Interface	Price	Del.
EZPP-S8C-FS-PLC	8” STN Color, 64 I/O EZPLC base, DC Power	$1199	STK
EZPP-S8C-FS-PLC-E	8” STN Color, 64 I/O EZPLC base w/Ethernet, DC Power	$1298	3DAY
EZPP-S8C-FS-PLC-D	8” STN Color, 64 I/O EZPLC base w/DeviceNet, DC Power	$1278	3DAY
EZPP-S8C-FS-PLC-P	8” STN Color, 64 I/O EZPLC base w/Profibus, DC Power	$1328	TBRS



8” STN Color
Dimensions





EZSeries TouchPLC 8" TFT Color Slim Bezel Panels

8" Color EZSeries TouchPLC - Slim Bezel (8.2" TFT)

These panels have a 8.2" diagonal touch screen with 640x480 pixel resolution. These have an TFT LCD (liquid crystal display) and is available with 64 I/O (max) PLC base. I/O modules are not included with EZSeries TouchPLC and can be purchased separately. Please refer to EZI/O section (9) which lists all the available modules along with part number and pricing. All these panels have a very low slim profile along with a smaller footprint on enclosures.

Features

- 8.2" diagonal color TFT LCD, 128 colors
- NEMA 4, FDA compliant material
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZ-ETHERNET)
- MODBUS TCP/IP card optional (EZ-ETHERPLUS)
- 54,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4" gasket and four DIN mounting clips
- 1/4" O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 4.1" (104.2mm) installed depth



64 I/O EZPLC BASE

- Total Program/Data Memory 64KB
- 3ms Scantime for 1K Instruction
- RS232 & RS422/485 Ports
- ASCII In/Out
- Built-in Calendar/Clock

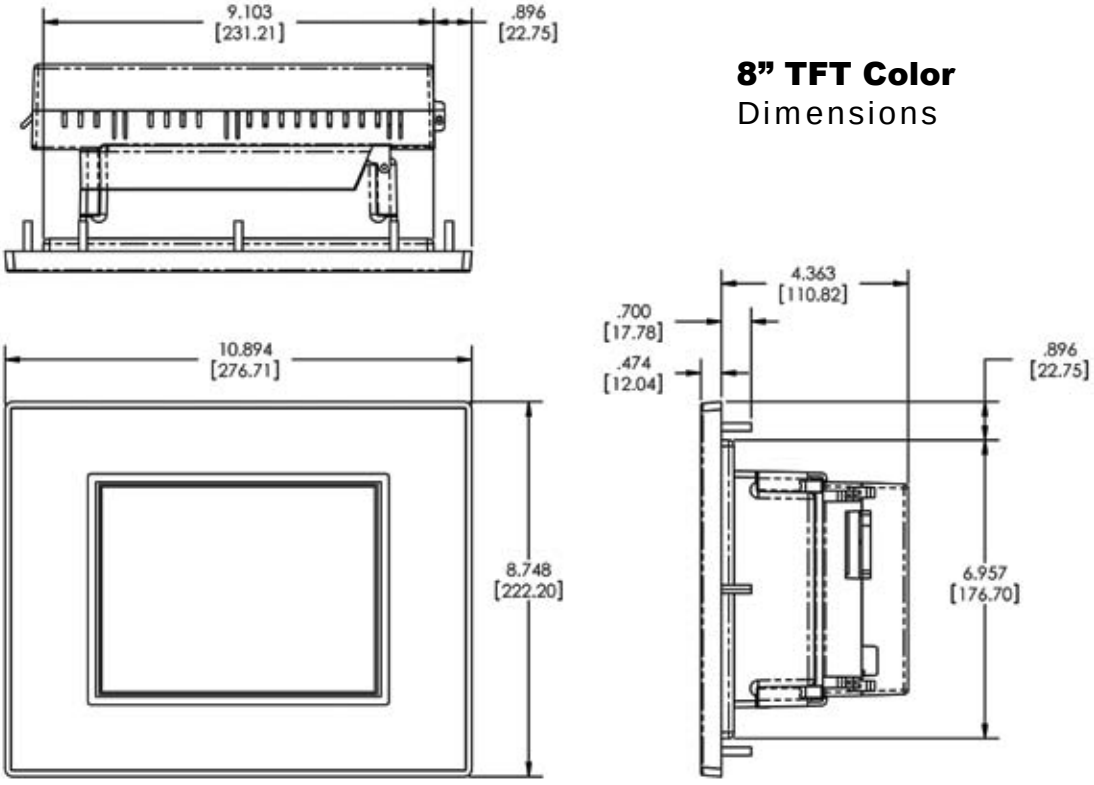
Snap-in I/O

Model Number	Interface	Price	Del.
EZP-T8C-FS-PLC	8" TFT Color, 64 I/O EZPLC base, DC Power	$1549	STK
EZP-T8C-FS-PLC-E	8" TFT Color, 64 I/O EZPLC base w/Ethernet, DC Power	$1648	3DAY
EZP-T8C-FS-PLC-D	8" TFT Color, 64 I/O EZPLC base w/DeviceNet, DC Power	$1628	3DAY
EZP-T8C-FS-PLC-P	8" TFT Color, 64 I/O EZPLC base w/Profibus, DC Power	$1678	TBRS

Screw-down I/O

Model Number	Interface	Price	Del.
EZPP-T8C-FS-PLC	8" TFT Color, 64 I/O EZPLC base, DC Power	$1649	STK
EZPP-T8C-FS-PLC-E	8" TFT Color, 64 I/O EZPLC base w/Ethernet, DC Power	$1748	3DAY
EZPP-T8C-FS-PLC-D	8" TFT Color, 64 I/O EZPLC base w/DeviceNet, DC Power	$1728	3DAY
EZPP-T8C-FS-PLC-P	8" TFT Color, 64 I/O EZPLC base w/Profibus, DC Power	$1778	TBRS

8" TFT Color
Dimensions



EZSeries ToucPLC 10” TFT Color Slim Bezel Panels

10” Color EZSeries TouchPLC - Slim Bezel (10.4” TFT)

These panels have an 10.4” diagonal touch screen, with a 640x480 pixel resolution and feature a TFT LCD (liquid crystal display) and is available with 64 I/O (max) PLC base. I/O modules are not included with EZSeries TouchPLC and can be purchased separately. Please refer to EZI/O section (9) which lists all the available modules along with part number and pricing. All models feature a low-profile slim bezel design that provides a small footprint on your enclosure.

Features

- 10.4” diagonal color TFT LCD, 128 colors
- NEMA 4, 4X (indoor), FDA compliant material
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- 50,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips
- 1/4” O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 4.1” (104.2mm) installed depth

64 I/O EZPLC BASE

- Total Program/Data Memory 64KB
- 3ms Scantime for 1K Instruction
- RS232 & RS422/485 Ports
- ASCII In/Out
- Built-in Calendar/Clock

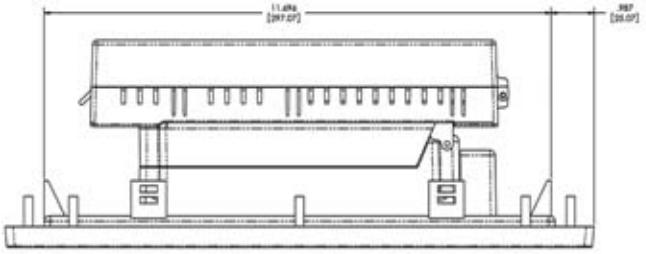


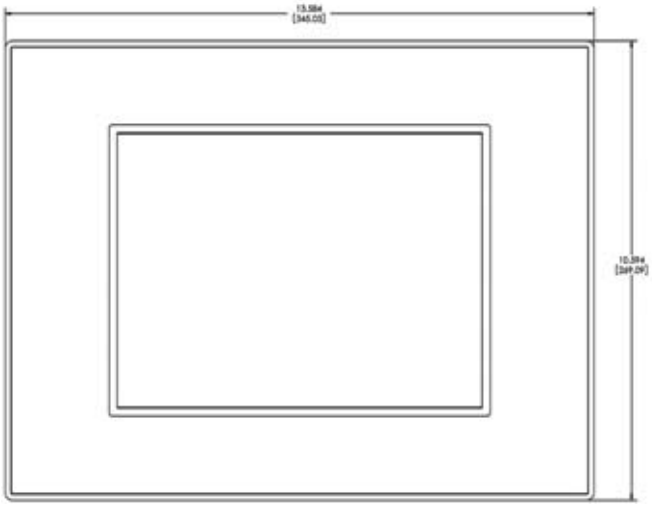
Snap-in I/O

Model Number	Interface	Price	Del.
EZP-T10C-FS-PLC	10” TFT Color, 64 I/O EZPLC base, DC Power	$1849	STK
EZP-T10C-FS-PLC-E	10” TFT Color, 64 I/O EZPLC base w/Ethernet, DC Power	$1948	3DAY
EZP-T10C-FS-PLC-D	10” TFT Color, 64 I/O EZPLC base w/DeviceNet, DC Power	$1928	3DAY
EZP-T10C-FS-PLC-P	10” TFT Color, 64 I/O EZPLC base w/Profibus, DC Power	$1978	TBRS

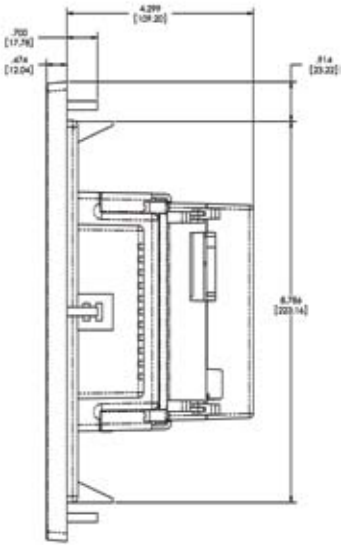
Screw-down I/O

Model Number	Interface	Price	Del.
EZP-T10C-FS-PLC	10” TFT Color, 64 I/O EZPLC base, DC Power	$1949	STK
EZP-T10C-FS-PLC-E	10” TFT Color, 64 I/O EZPLC base w/Ethernet, DC Power	$2048	3DAY
EZP-T10C-FS-PLC-D	10” TFT Color, 64 I/O EZPLC base w/DeviceNet, DC Power	$2028	3DAY
EZP-T10C-FS-PLC-P	10” TFT Color, 64 I/O EZPLC base w/Profibus, DC Power	$2078	TBRS





10” TFT Color
Dimensions



EZSeries ToucPLC 15" TFT Color Slim Bezel Panels

15" Color EZSeries TouchPLC - Slim Bezel (15.0" TFT)

These TouchPLCs have a 15.0" diagonal touch screen, with a 640x480 pixel resolution and feature a TFT LCD (liquid crystal display) and is available with 64 I/O (max) PLC base. I/O modules are not included with EZSeries TouchPLC and can be purchased separately. Please refer to EZI/O section (9) which lists all the available modules along with part number and pricing. All models feature a low-profile slim bezel design that provides a small footprint on your enclosure.

Features

- 15.0" diagonal color TFT LCD, 128 colors
- NEMA 4, FDA compliant material
- 640x480 pixel resolution
- 1MB RAM expandable to 1.5MB or 2MB
- 1MB or 2MB option flash card for memory backup
- 55,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4" gasket and four DIN mounting clips
- 6" (152.4mm) installed depth

64 I/O EZPLC BASE

- Total Program/Data Memory 64KB
- 3ms Scantime for 1K Instruction
- RS232 & RS422/485 Ports
- ASCII In/Out
- Built-in Calendar/Clock

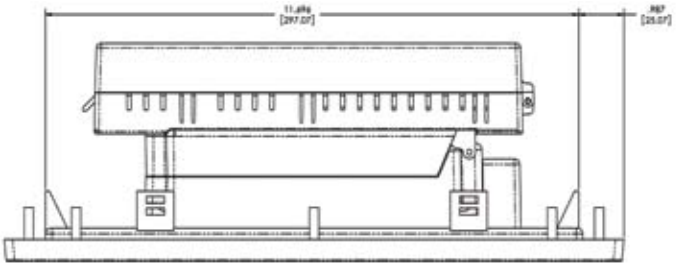


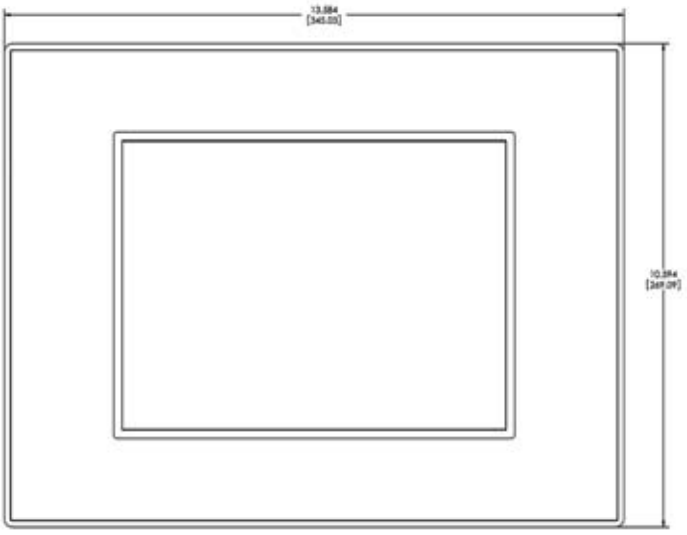
Snap-in I/O

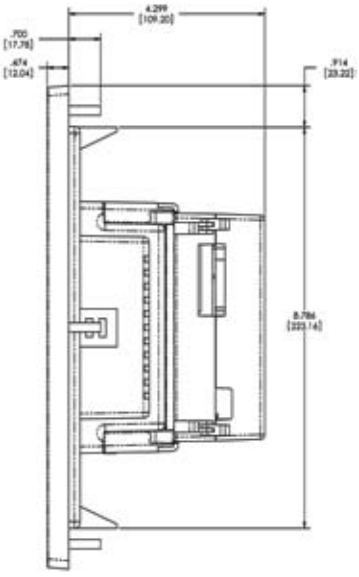
Model Number	Interface	Price	Del.
EZP-T15C-FS-PLC	15" TFT Color, 64 I/O EZPLC base, DC Power	$2649	STK
EZP-T15C-FS-PLC-E	15" TFT Color, 64 I/O EZPLC base w/Ethernet, DC Power	$2748	3DAY
EZP-T15C-FS-PLC-D	15" TFT Color, 64 I/O EZPLC base w/DeviceNet, DC Power	$2728	3DAY
EZP-T15C-FS-PLC-P	15" TFT Color, 64 I/O EZPLC base w/Profibus, DC Power	$2778	TBRS

Screw-down I/O

Model Number	Interface	Price	Del.
EZPP-T15C-FS-PLC	15" TFT Color, 64 I/O EZPLC base, DC Power	$2749	STK
EZPP-T15C-FS-PLC-E	15" TFT Color, 64 I/O EZPLC base w/Ethernet, DC Power	$2848	3DAY
EZPP-T15C-FS-PLC-D	15" TFT Color, 64 I/O EZPLC base w/DeviceNet, DC Power	$2828	3DAY
EZPP-T15C-FS-PLC-P	15" TFT Color, 64 I/O EZPLC base w/Profibus, DC Power	$2878	3DAY



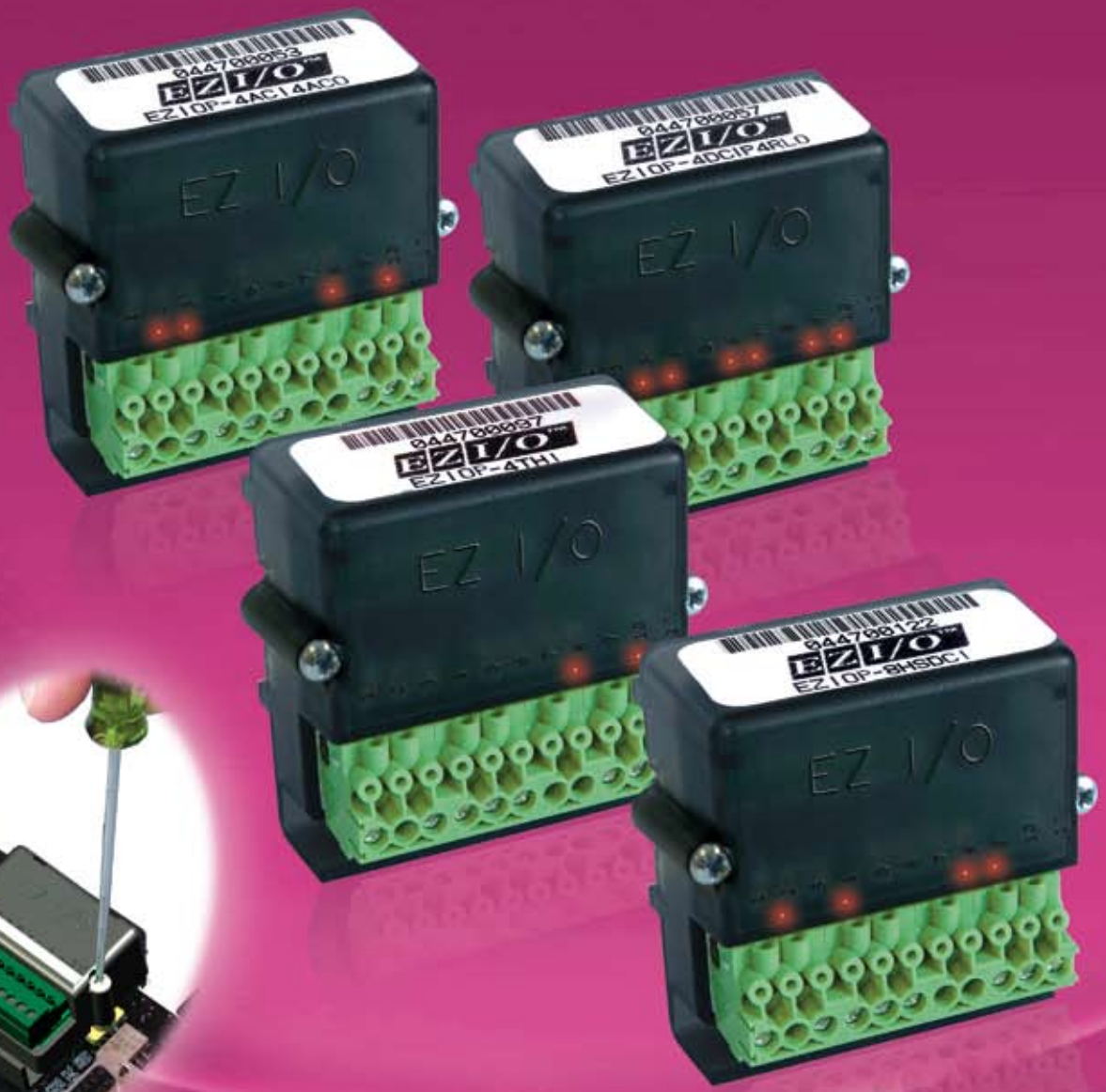




15" TFT Color
Dimensions

EZ I/O™

Compact, Powerful, Flexible and Sensibly Priced





THE MOST SENSIBLE REAL WORLD I/O

Innovate'n'Save™

EZI/O™ The Most SENSIBLE Real World I/O for All EZAutomation PLCs



Extremely Flexible DC In/DC Out Modules $29

First Sensible Analog I/O $119

First Sensible High Speed Counter and PLS Module 100 KHz, 100µs PLS $99

HALT CERTIFIED HASS

What is EZI/O?

It is a newly developed real world I/O. It was designed by a group of engineers with over 200 years of collective experience in designing automation products and systems. It is an 8 point small footprint yet extremely powerful, modular and flexible I/O.

What does it have?

- All digital I/O optically isolated
- 8 point real world inputs or outputs
- Digital or 12 bit Analog
- Thermocouple Inputs
- 24 bit High Speed Counter and PLS
- 2 of 60 KHz Quadrature inputs and 2 PLS outputs for each encoder with 100µs response time
- 1 of 100 KHz Quadrature input with 4 PLS outputs, 100µs response time
- Interrupt Modules for a total of 40µs throughput
- DC outputs 24VDC @ 0.5 Amp short circuit proof
- AC outputs 120 VAC @ 1 Amp
- Relay outputs 200V @ 1 Amp
- Analog modules 0-5V @ 2 Amps, 0-10V, 0-20mA, 4-20mA, 12 bit
- Only occupies 2 x 2 x 1" space
- LED status indicators for all digital I/O
- EZ to wire Phoenix Plug-in terminal blocks
- I/O Modules that snap onto the base
- 4 In / 4 Out Wide variety of "Mix-n-Match" I/O Modules.

Where does it make sense?

EZI/O is used with our EZSeries PLCs, TouchPLCs and TextPLCs. This is simply the best I/O on the market today. If you need a lot of Analog I/O, you will save hundreds or even thousands of dollars using EZI/O. This I/O also has lots of potential as simply Remote I/O interfacing to DeviceNet, Profibus and Ethernet. And it will continue to expand every quarter!!

You Will Demand a Lot More From Your Current Supplier After You Look at These Features

Here is what you get for $29

- 8 24 VDC sourcing outputs
- 2500 VDC optical isolation
- Each output rated at 0.5 Amp
- Total module current 1.0 Amp
- All outputs short circuit proof
- Snap-in module
- LED status indicator for each output
- 11 Point-Phoenix removable terminal blocks
- 2 x 2 x 1" compactness



Here is what you get for $39

- 4 110 VAC Inputs
- 4 110 VAC Outputs
- 2500 VDC Optical Isolation
- Outputs rated at 1.0 amp each
- Snap-in module
- LED status indicator for each output
- 11 Point-Phoenix removable terminal blocks
- 2 x 2 x 1" compactness
- Base Power Consumption 20mA @ 3.3V maximum



Here is what you get for $119

- 4 Analog Inputs 0-5 VDC, 0-10 VDC
- 4 Analog Outputs
- 2500 VDC optical isolation
- 12 bit resolution
- Snap-in module
- 11 Point-Phoenix removable terminal blocks
- 2 x 2 x 1" compactness
- Input stability ± 1 count
- Gain Error ± 2 counts
- Linearity end to end ± 2 counts
- Maximum inaccuracy 0.4% @ 60°C



EZI/O™ We Looked at Every Detail!

Snap-In I/O Module
EZI/O modules are designed with one thing in mind - modularity! Each and every EZI/O module can be utilized with EZSeries PLCs, TouchPLCs, and TextPLCs for a truly modular I/O.

No Power Budgeting Required, Period!
All EZ Family PLCs are designed to handle any combination of EZI/O modules without any need for external power supplies. EZI/O modules consume only 20-40 mA power at 3.3V.

Screw-down I/O Module
EZI/O screw-down modules have the same features as snap-in modules except that mounting to the PLC base is thru **2 captive screws** for each module.

Extremely Compact
2 x 2 x 1 inch

Mix-N-Match
AC and DC, input and outputs are mixed-n-matched to provide maximum flexibility.

I/O Status LED Indicators
LED indicator lights on every channel to help troubleshoot and debug field wiring.



Wiring Duct for Routing Field Wires
Every EZI/O module has a wiring duct for routing field wiring in neat bundles.

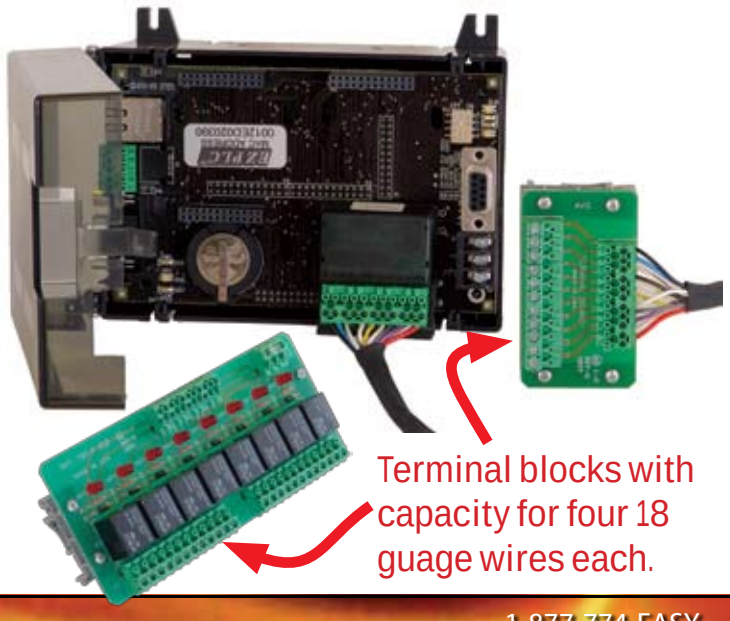
Up to one 14 Gauge
Up to two 18 Gauge
Up to four 22 Gauge
Wires in One Terminal

Male Header to Plug in an 11 Point Phoenix, Removable Terminal Block
EZI/O modules come with male headers to accommodate 11 point removable Phoenix terminal blocks (UL rated for 300V 10 amp 14AWG) for ease of wiring.

Quick Insert EZ I/O Cables and High current Relay Modules

EZLink Cables and DIN mounted plug-in and removable terminal blocks are offered for applications where bigger and/or more accessible terminal blocks are needed for wiring. Another DIN mounted terminal block is offered with plug-in and removable connectors, LED indicators and eight 10 Amp 1 Form C Relays with common and NO and NC contacts.

EZI/O Link and Accessories		
Part	***Description***	***Price***
EZIO-LINK	Hardware Manual	**$15**
EZIO-DUMMY	Dummy Module	**$5**
EZIO-TERM11	11 Pin Removable	**$5**
EZIO-SCDRV	Pack of 2	**$5**



Terminal blocks with capacity for four 18 guage wires each.

EZI/O™ Head to Head Comparisons

Analog Current Module

Features	EZI/O EZIOP-4ANI4ANOC	DL06 F0-4AD2DA-1	DL205 F2-02DA-1	DL205 F2-04AD-1	DL205 F2-04AD2DA	MicroLogix 1100 F2-04AD-1
No. of Inputs	4	4		4	4	2
No.of Outputs	4	2	2		2	2
Input Range	0-20 ma, 4-20 ma DIP switch selectable	0-20 ma, 4-20 ma Jumper selectable		4-20 ma	4-20 ma	4-20 ma, 0-10 V
Input Resolution	12 Bit	12 Bit		12 Bit	12 Bit	12 Bit
Input Linearity Error	± 2 Counts	± 2 Counts		± 1 Counts	± 1 Counts	
Output Range	0-20 ma, 4-20 ma DIP switch selectable	0-20 ma, 4-20 ma Jumper selectable	4-20 ma	4-20 ma	4-20 ma	4-20 ma, 0-10 V
Output Resolution	12 Bit	12 Bit	12 Bit		12 Bit	12 Bit
Output Linearity Error	± 2 Counts	± 2 Counts	± 1 Counts		± 1 Counts	
Maximum Inaccuracy	0.6% @ (0-60° C) for Input 0.3% @ (0-60° C) for Outputs	0.85% @ (0-60° C)	0.3% @ (0-60° C)	0.65% @ (0-60° C)	0.45% @ (0-60° C) for Inputs 0.3% @ (0-60° C) for Outputs	0.5% @ (0-55° C)
Price	**$119** for 8 I/O	**$85** for 6 I/O	**$156** for 2 I/O	**$199** for 4 I/O	**$279** for 6 I/O	**$319** for 4 I/O

Analog Voltage Module

Features	EZI/O EZIOP-4ANI4ANOV	DL06 F0-2AD2DA-2	DL205 F2-02DA-2	DL205 F2-04AD-2	MicroLogix 1100 1762-IF2OF2	MicroLogix 1100 1762-IF4XOF2
No. of Inputs	4	2		4	2	4
No.of Outputs	4	2	2		2	2
Input Range	0-5 V, 0-10 V DIP switch selectable	0-5 V, 0-10 V Jumper selectable		0-5 V, 0-10 V, ± 5 V, ± 10 V	4-20 ma, 0-10 V	0-10 V, ± 10 V, 0-5 V, 1-5 V
Input Resolution	12 Bit	12 Bit		12 Bit	12 Bit	8 Bit plus sign individaually isolated
Input Linearity Error	± 2 Counts	± 2 Counts		± 1 Counts		
Output Range	0-5 V, 0-10 V DIP switch selectable	0-5 V, 0-10 V Jumper selectable	0-5 V, 0-10 V, ± 5 V, ± 10 V		4-20 ma, 0-10 V	0-10 V, ± 10 V, 0-5 V, 1-5 V
Output Resolution	12 Bit	12 Bit	12 Bit		12 Bit	8 Bit Plus sign individually isolated
Output Linearity Error	± 1 Counts		± 1 Counts			
Maximum Inaccuracy	0.3% @ (0-60° C)	0.6% @ (0-60° C)	0.4% @ (0-60° C)	0.3% @ (0-60° C)	0.5% @ (0-55° C)	
Price	**$119** for 8 I/O	**$149** for 4 I/O	**$163** for 2 I/O	**$219** for 4 I/O	**$319** for 4 I/O	**$603** for 6 I/O

Thermocouple Module

Features	EZI/O EZIOP-4THIE	DL06 F0-4THM	DL205 F2-4THM	MicroLogix 1100 1762-IT4	Compact Logix 1769-IT4
No of Inputs	4	4	4	4	4
Absolute Max Rating	full protected upto ± 50V DC	fault protected upto ± 50V DC	fault protected upto ± 50V DC		
Base Power Consumption	10 ma @3.3 VDC	30 ma @3.3 VDC	110 ma @5V DC	40 ma @5V DC	100 ma @5V DC
Linearity Error End to End	± 1° C	± 1° C	± 0.05° C		
Max. Inaccuracy	± 2° C	± 3° C	± 3° C	± 7.5° C	
Types of Thermocouple	J, K, S, T Type Input	J, E, K, R, S, T, B, N, C Type Input	J, E, K, R, S, T, B, N, C Type Input	J,K,T,E,R,S,B,N,C Type Input	J,K,T,E,R,S,B,N,C Type Input
Cold Junction Compensation	Automatic	Automatic	Automatic	Automatic	Automatic
Price	**$149**	**$199**	**$299**	**$447**	**$1022**

EZI/O™ Head to Head Comparisons

High Speed Counter Module

Features	EZI/O EZIOP-HSCM1/HSCM2	DL06 H0-CTRIO	DL205 H2-CTRIO	Compact Logix 1769-HSC
No of Inputs	5	4	8	2
No of Outputs	2 Source ouputs of each counter in EZIO-HSCM, 4 Source ouputs in EZIO-HSCM1	2	4	4
Maximum Input Frequency	60 Khz Max Freq after 1X,2X or 4X Multiplication in EZIO-HSCM1, 100Khz max input Freq after 1x, 2x and 4x Multiplication	100 Khz Input Frequency after 1X, 2X and 4X	100 Khz Input Frequency after 1X, 2X and 4X	
Power Consumption	10 ma @ 3.3V DC	250 ma @ 5V DC	400 ma @ 5 V DC	425 ma @ 5 V DC
Minimum Pulse width	5 µs	5 µs	5 µs	
LED Indicator next to the wiring terminal	Red LED beside each terminal for each Input and Output	NO	NO	NO
Short Circuit Proof	PLS Ouputs are 0.5A short circuit proof, 1A per module and turns off outputs upon short circuit dtection	NO	NO	NO
PLS setpoints	1 On/Off pair for each output	Not Available	Not Available	Not Available
Pulse Train Outputs		2 Pulse Ouputs	2 Pulse Ouputs	
Modes of Operation	Preset, Reset and Inhibit	Preset, Reset and Inhibit	Preset, Reset and Inhibit	
Price	**$99**	**$195**	**$289**	**$922**

Relay Output Module

Features	EZI/O EZIOP-4RLO	DL06 H0-04TRS	DL205 H2-04TRS	MicroLogix 1100 1762-OW8	Compact Logix 1769-OW8
No of Inputs	4	2	2	8	8
output Voltage Range	5-180VDC, 20-132VAC	5-30VDC, 5-125VAC	5-30VDC, 5-240VAC	5-125VDC, 5-265VAC	5-125VDC, 5-265VAC
Max Current (resist)	1A/ pt	3A/ pt	4A/ pt	2.5A	0.5A @60° C
Base Power Consumption	50ma @ 3.3vDC	250ma @5V DC	250ma @5V DC	80ma @ 5V DC	125 ma @5 VDC
Contacts	4 Isolated	4 Isolated	4 Isolated		
Switching Time	<= 1ms	5ms	10ms		
Built-in Electromagentic Shield	YES	NO	NO	NO	NO
Price	**$49**	**$39**	**$62**	**$156**	**$218**

DC Output Module

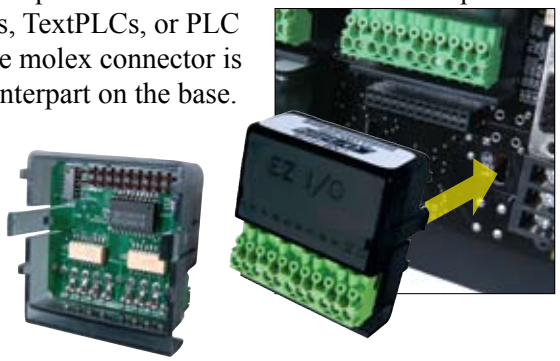
Features	EZI/O EZIOP-8DCOP	DL06 D0-104TD2	DL205 D2-08TD2	MicroLogix 1100 1762-OB8	Compact Logix 1769-OB8
No of outputs	8	10	8	8	8
Short Circuit proof	1 A per Module, turns off outputs upon short circuit detecti	NO	NO	NO	NO
Optical Isolation	YES	YES	YES	YES	YES
Max Output Current/pt.	0.5 A	0.3 A	0.3 A	0.5 A	
Max Module output current	1 A	1.5 A	2.4 A	4 A	8 A
Base power consumption	40 ma	150 ma	100 ma	115 ma	145 ma
Price	**$29**	**$39**	**$62**	**$156**	**$218**

EZI/O™ EZI/O Module Installation and Wiring

Inserting and Removing Snap-in I/O Modules

Insert I/O Modules

EZI/O modules have two clips and a molex connector which snap into EZSeries TouchPLCs, TextPLCs, or PLC bases. Make sure the male molex connector is aligned to the female counterpart on the base.



Back side of EZI/O module

Remove I/O Modules

Removed from the slots by pressing the two clips inward on the sides of the module to release the clips from the base. You may need to use your thumb to apply enough force.

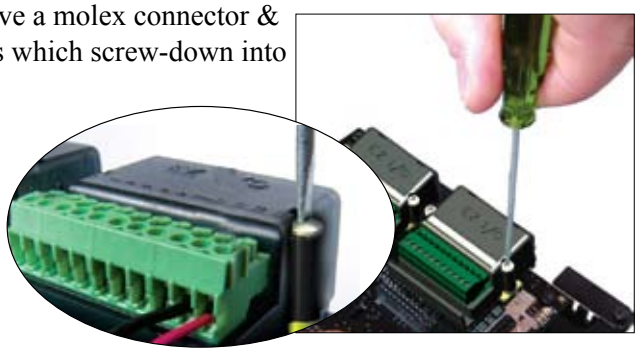


Inserting and Removing Screw-down I/O Modules

Insert I/O Modules

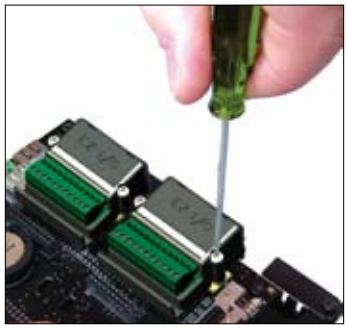
EZI/O modules have a molex connector & two captive screws which screw-down into base of the PLC.

Note: For using screw-down EZI/O modules, the PLC base must be the Plus series.



Remove I/O Modules

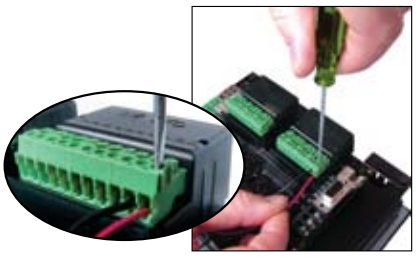
Removed from the female connector on the PLC base, by unscrewing the two captive screws on the sides of the module.



Removable Terminal Block and EZ Wiring

Wiring EZI/O Modules

Simply insert the wire and screw to tighten.



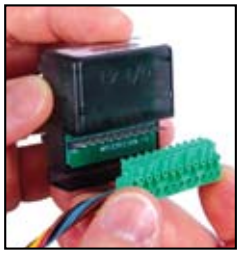
Removing Terminal Blocks

As EZI/O was built to withstand industrial environments, terminal blocks have a very snug fit on the module. Slip the edge of the screw-driver under the terminal block and lift to pop off.



Inserting Terminal Blocks

Eliminate rewiring your terminal block anytime you need to swap out a module.



Number of Wires Allowed in Each Terminal	
1	14 AWG
2	18 AWG
4	22 AWG

Wiring Capabilities

UL rated at 300 volts, 10 amps 14 AWG

Screwdriver Required

EZI/O terminal blocks require a 2.5mm blade screwdriver. You can purchase these screwdrivers from us at a price of $5.00 under part # EZIO-SCDRV for a pack of two.

Wiring Duct

EZI/O modules are equipped with wiring trays for proper routing of wires.



8 pt. 24VDC Input Module

Delivery Code STK

EZIO-8DCI
Snap-in



Terminal Block
300 Volt/10
Amp/14AWG
UL Rating

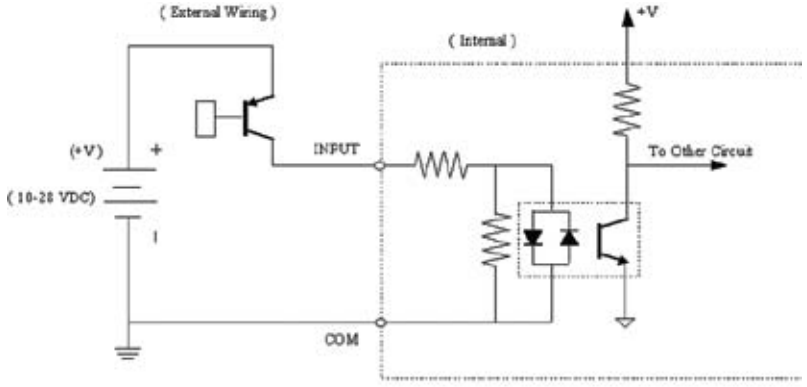
EZIOP-8DCI
Srew-down

Module Specifications	
Number of Inputs	8 (sink/source)
Input Voltage Range	10-28 VDC
Peak Voltage	40 VDC
Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
Maximum Input Current	5 mA @ 28 VDC
Input Impedance	5.6k @ 10-28 VDC
ON Voltage Level	> 10 VDC
OFF Voltage Level	< 2 VDC
Min. ON Current	1.5 mA
Min. OFF Current	0.2 mA
OFF to ON Response	2-4 ms, typical 3 ms
ON to OFF Response	2-4 ms, typical 3 ms
Status Indicators	Red LED for each input
Commons	2 points
Fuse	No Fuse
Base Power Required (3.3V)	Typical 15mA (all inputs on)
Optical Isolation	2500 Volt
Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

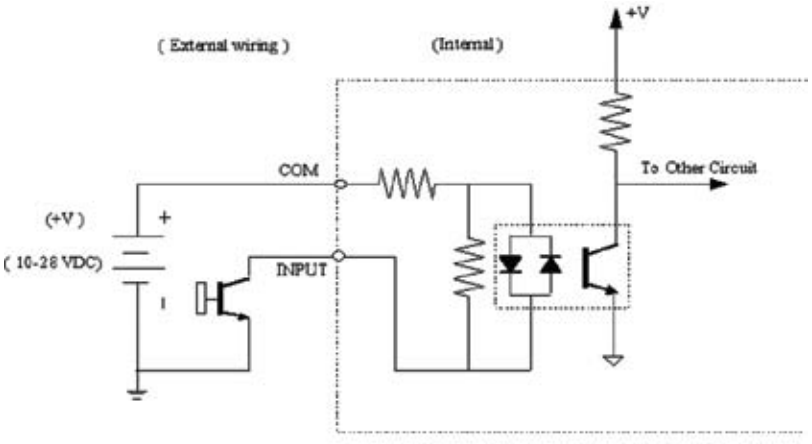
Pinout Information	
Pin No.	EZIO-8DCI
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	COM
6	Input(5)
7	Input(6)
8	Input(7)
9	Input(8)
10	COM
11	Not Connected

Note: Pin 5 and Pin10 are the same point electrically

For EZ-LINK cables and Terminal boards look at page 9-4



DC INPUT (SOURCE)



DC INPUT (SINK)

EZ I/O™

8 pt. 24V DC Output Module (Source)

Delivery Code STK

Module Specifications	
Number of Outputs	8 sourcing
Peak Voltage	50.0 VDC
Maximum Steady State Output Current	0.5A per output, 1.0A max per module @ 50°C
Maximum Leakage Current	100µA @ 50 VDC @ 50°C
ON Voltage Drop	2 VDC @ 0.5A
Maximum Inrush Current	0.8A for 10ms
OFF to ON Response	< 2µs
ON to OFF Response	<10µs
Status Indicators	Red LED for each output
+V Terminals & Commons	One V+, 2 Common
Short Circuit Protection	1 Amp per module, turns off outputs upon short circuit detection
Base Power Required (3.3V)	40mA, all outputs on
Optical Isolation	2500 Volt
Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

EZIO-8DCOP
Snap-in

EZIO-8DCOP
$22

EZIOP-8DCOP
$29

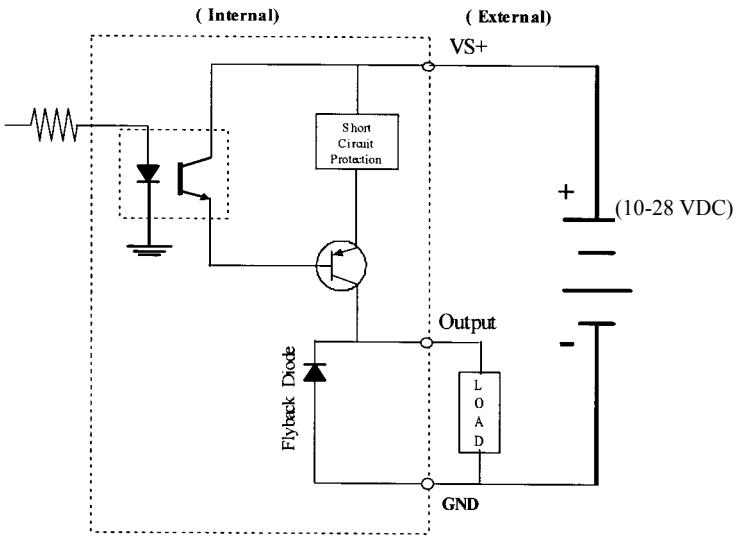


Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

EZIOP-8DCOP
Screw-down

Pinout Information	
Pin No.	EZIO-8DCOP
1	Output(1)
2	Output(2)
3	Output(3)
4	Output(4)
5	GND
6	Output(5)
7	Output(6)
8	Output(7)
9	Output(8)
10	GND
11	Customer_Supply(+VS)

Note: Pin 5 and Pin10 are the same point electrically



DC OUTPUT [SOURCE]

For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™

8 pt. 24VDC Output Sinking Module

Delivery Code STK

Module Specifications	
Number of Outputs	8 sinking
Peak Voltage	50.0 VDC
Maximum Steady State Output Current	0.5A per output, 1.4A max per module @ 50°C
Maximum Leakage Current	100µA @ 50 VDC @ 50°C
ON Voltage Drop	1.3 VDC @ 0.5A
Maximum Inrush Current	1.0A for 10ms
OFF to ON Response	< 2µs
ON to OFF Response	<10µs
Status Indicators	Red LED for each output
+V Terminals & Commons	One V^+, 2 Common
Short Circuit Protection	1.4 Amp per module, turns off outputs upon short circuit detection
Base Power Required (3.3V)	40mA, all outputs on
Optical Isolation	2500 Volt
Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

EZIO-8DCON
Snap-in

EZIO-8DCON $22

EZIOP-8DCON $29

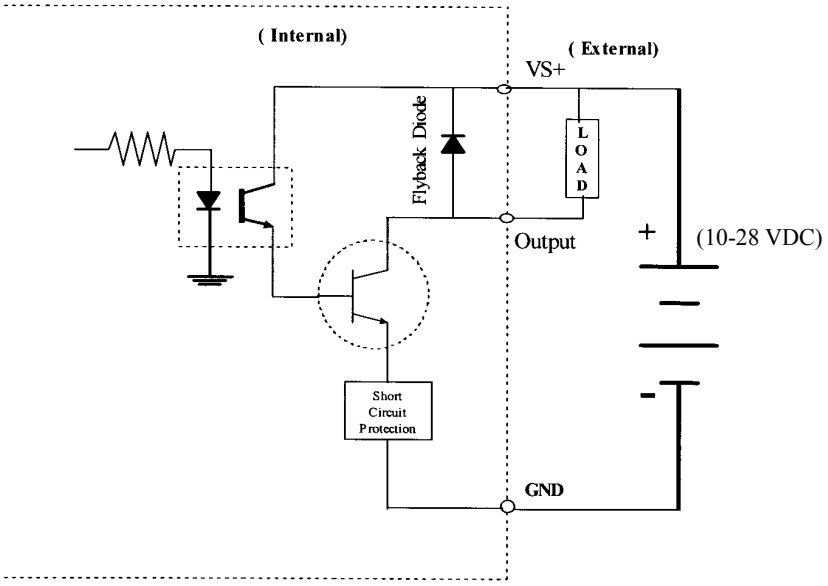


Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

EZIOP-8DCON
Screw-down

Pinout Information	
Pin No.	EZIO-8DCON
1	Output(1)
2	Output(2)
3	Output(3)
4	Output(4)
5	GND
6	Output(5)
7	Output(6)
8	Output(7)
9	Output(8)
10	GND
11	Customer_Supply(+VS)

Note: Pin 5 and Pin10 are the same point electrically



DC OUTPUT [SINK]

For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™

8 pt. 24VDC High Speed Input Module

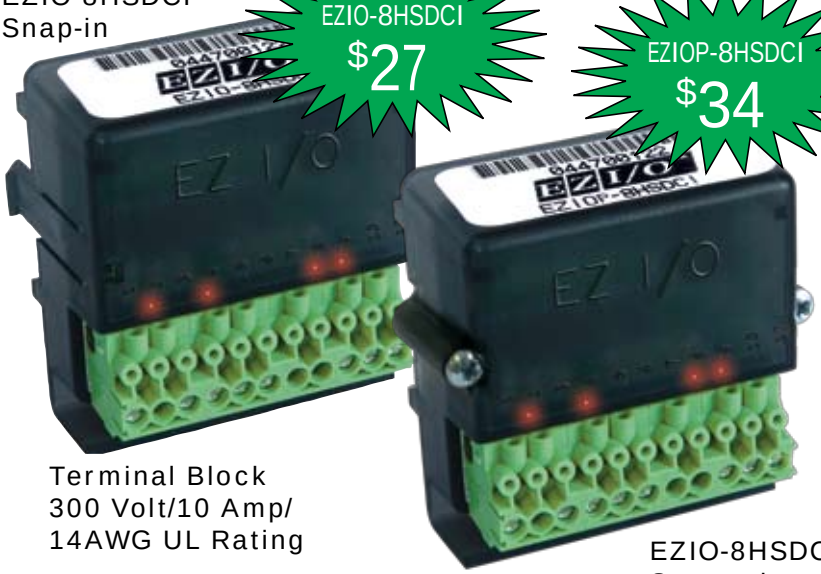
Delivery Code STK

Module Specifications	
Number of Inputs	8 (sink/source)
Input Voltage Range	10-28 VDC
Peak Voltage	40 VDC
Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
Maximum Input Current	5 mA @ 28 VDC
Input Impedance	5.6k @ 10-28 VDC
ON Voltage Level	> 10 VDC
OFF Voltage Level	< 2 VDC
Min. ON Current	1.5 mA
Min. OFF Current	0.2 mA
OFF to ON Response	0.2-0.4 ms, typical 0.3 ms
ON to OFF Response	0.2-0.4 ms, typical 0.3 ms
Status Indicators	Red LED for each output
Commons	2 points
Fuse	No Fuse
Base Power Required (3.3V)	Typical 15 mA (all inputs on)
Optical Isolation	2500 Volt
Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

EZIO-8HSDCI
Snap-in

EZIO-8HSDCI
$27

EZIOP-8HSDCI
$34



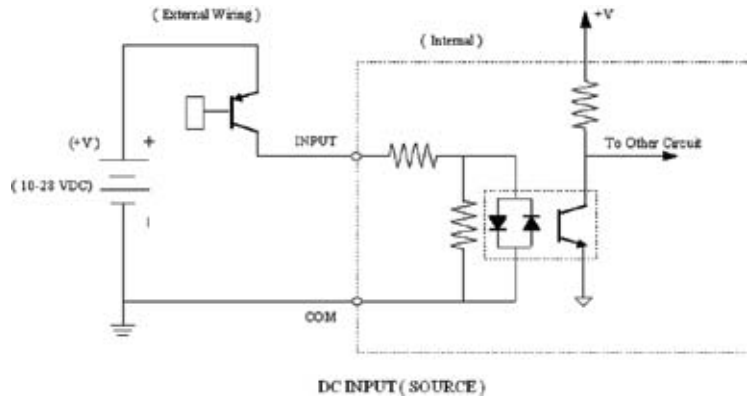
Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

EZIO-8HSDCI
Screw-down

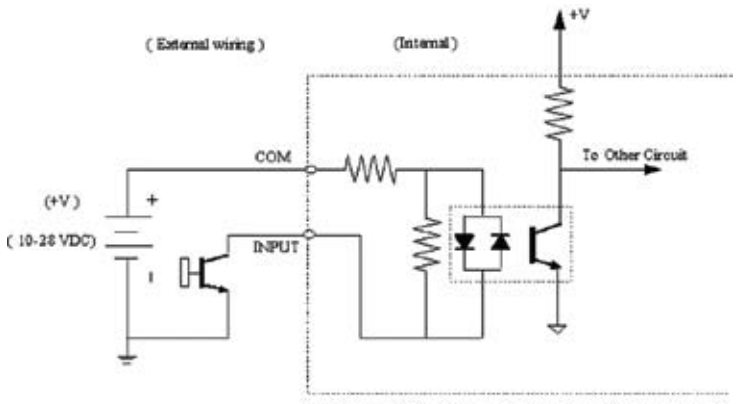
Pinout Information	
Pin No.	EZIO-8HSDCI
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	COM
6	Input(5)
7	Input(6)
8	Input(7)
9	Input(8)
10	COM
11	Not Connected

Note: Pin 5 and Pin10 are the same point electrically

For EZ-LINK cables and Terminal boards look at page 9-4



DC INPUT (SOURCE)



DC INPUT (SINK)

EZI/O™

4 pt. 24VDC In/4 pt. 24VDC Out Sinking Module

Delivery Code STK

	Module Specifications	
DC Power Supply Specs	*Voltage Range*	
DC Input Specs	*Number of Inputs*	4 (sink/source)
	Input Voltage Range	10-28 VDC
	Peak Voltage	40 VDC
	Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
	Maximum Input Current	5 mA @ 28 VDC
	Input Impedance	5.6k @ 10-28 VDC
	ON Voltage Level	> 10 VDC
	OFF Voltage Level	< 2 VDC
	Min. ON Current	1.5 mA
	Min. OFF Current	0.2 mA
	OFF to ON Response	2-4 ms, typical 3 ms
	ON to OFF Response	2-4 ms, typical 3 ms
	Status Indicators	Red LED for each output
	Commons	1 point
	Fuse	No Fuse
	Base Power Required (3.3V)	Typical 8 mA (all inputs on)
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
DC Output Specs	*Number of Outputs*	4 sinking
	Peak Voltage	50.0 VDC
	Maximum Steady State Output Current	0.5A per output, 1.4A max per module @ 50°C
	Maximum Leakage Current	100µA @ 50 VDC @ 50°C
	ON Voltage Drop	1.5 VDC @ 0.5A
	Maximum Inrush Current	1.0A for 10ms
	OFF to ON Response	< 2µs
	ON to OFF Response	<10µs
	Status Indicators	Red LED for each output
	+V Terminals & Commons	One V+, 1 Common
	Short Circuit Protection	1.4 Amp per module, turns off outputs upon short circuit detection
	Base Power Required (3.3V)	20mA, all outputs on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

For EZ-LINK cables and Terminal boards look at page 9-4

EZIO-4DCI4DCON
Snap-in

EZIO-4DCI4DCON $22

EZIOP-4DCI4DCON $29

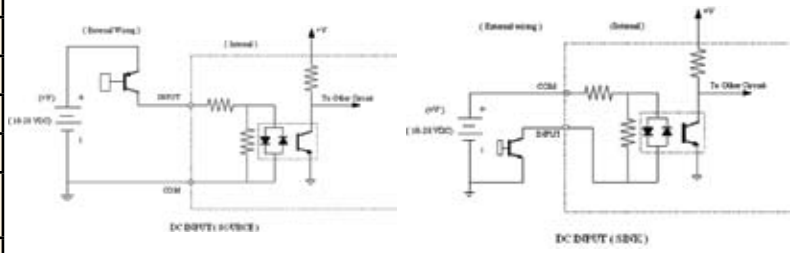


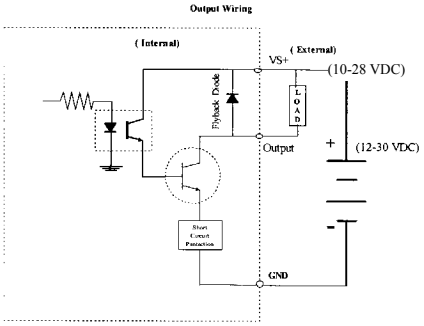
EZIOP-4DCI4DCON
Screw-down

Pinout Information	
Pin No.	EZIO-4DCI4DCON
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	COM
6	Output(1)
7	Output(2)
8	Output(3)
9	Output(4)
10	GND
11	Customer_Supply(+VS)

Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

Note: Pin 5 = Input common, Pin10 = Output common





EZ I/O™ 4 pt. 24VDC In/4 pt. 24VDC Fast Input Module with Interrupt

	Module Specifications	
DC Power Supply Specs	Voltage Range	
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
DC Input Specs (Standard)	Number of Inputs	4 (sink/source)
	Input Voltage Range	10-28 VDC
	Peak Voltage	40 VDC
	Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
	Maximum Input Current	5 mA @ 28 VDC
	Input Impedance	5.6k @ 10-28 VDC
	ON Voltage Level	> 10 VDC
	OFF Voltage Level	< 2 VDC
	Min. ON Current	1.5 mA
	Min. OFF Current	0.2 mA
	OFF to ON Response	2-4 ms, typical 3 ms
	ON to OFF Response	2-4 ms, typical 3 ms
	Status Indicators	Red LED for each output
	Commons	1 point
	Base Power Required (3.3V)	Typical 3.5 mA (all inputs on)
DC Input Specs (Fast)	Number of Inputs	4 (sink/source)
	Input Voltage Range	10-28 VDC
	Peak Voltage	40 VDC
	Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
	Maximum Input Current	5 mA @ 28 VDC
	Input Impedance	5.6k @ 10-28 VDC
	ON Voltage Level	> 10 VDC
	OFF Voltage Level	< 2 VDC
	Min. ON Current	1.5 mA
	Min. OFF Current	0.2 mA
	OFF to ON Response	0.2-0.4 ms, typical 0.3 ms For Inputs 5,6 and 7
	ON to OFF Response	0.2-0.4 ms, typical 0.3 ms For Inputs 5,6 and 7
	Interrupt	Low pass filter of 20µs, 60µs typical response time from input interrupt, 1 rung of processing and output activation, For Input # 8
	Status Indicators	Red LED for each output
	Commons	1 point
	Fuse	No Fuse
	Base Power Required (3.3V)	Typical 3.5 mA (all inputs on)

EZIO-4DCI4DCIF
Snap-in

EZIO-4DCI4DCIF
$27

EZIOP-4DCI4DCIF
$34

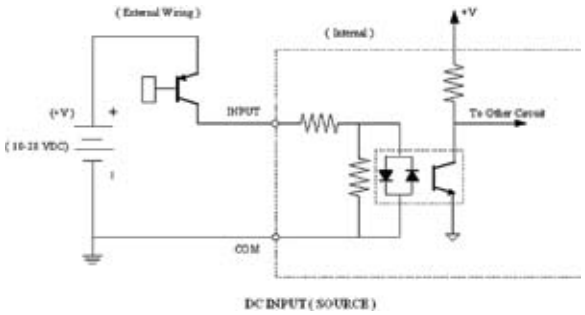


Delivery Code STK

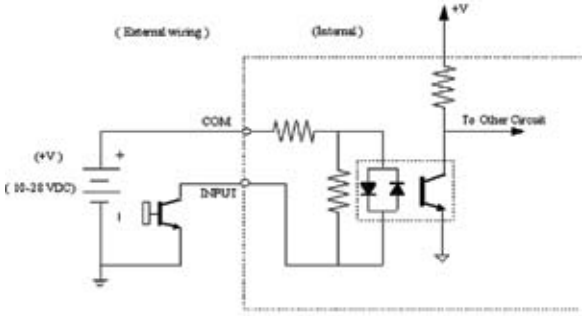
EZIO-4DCI4DCIF
Screw-down

Pinout Information	
Pin No.	EZIO-4DCI4DCIF
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	GND
6	Fast Input(5)
7	Fast Input(6)
8	Fast Input(7)
9	Fast Input(8) - Interrupt
10	GND
11	Not Connected

Terminal Block
300 Volt/10 Amp/14AWG
UL Rating



DC INPUT (SOURCE)



DC INPUT (SINK)

For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™

4 pt. 24VDC In/ 4 pt. 24VDC Out Module (Source)

	Module Specifications	
DC Power Supply Specs	Voltage Range	
DC Input Specs	Number of Inputs	4 (sink/source)
	Input Voltage Range	10-28 VDC
	Peak Voltage	40 VDC
	Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
	Maximum Input Current	5 mA @ 28 VDC
	Input Impedance	5.6k @ 10-28 VDC
	ON Voltage Level	> 10 VDC
	OFF Voltage Level	< 2 VDC
	Min. ON Current	1.5 mA
	Min. OFF Current	0.2 mA
	OFF to ON Response	2-4 ms, typical 3 ms
	ON to OFF Response	2-4 ms, typical 3 ms
	Status Indicators	Red LED for each output
	Commons	1 point
	Fuse	No Fuse
	Base Power Required (3.3V)	Typical 7.5 mA (all inputs on)
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
DC Output Specs	Number of Outputs	4 (sourcing)
	Peak Voltage	50.0 VDC
	Maximum Steady State Output Current	0.5A per output, 1.0A max per module @ 50°C
	Maximum Leakage Current	100µA @ 50 VDC @ 50°C
	ON Voltage Drop	2 VDC @ 0.5A
	Maximum Inrush Current	0.8A for 10ms
	OFF to ON Response	< 2µs
	ON to OFF Response	<10µs
	Status Indicators	Red LED for each output
	+V Terminals & Commons	One V+, 1 Common
	Short Circuit Protection	1 Amp per module, turns off outputs upon short circuit detection
	Base Power Required (3.3V)	20mA, all outputs on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

Delivery Code STK

EZIO-4DCI4DCOP
Snap-in

EZIO-4DCI4DCOP $22

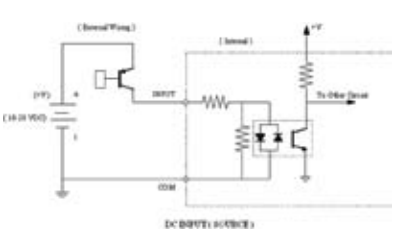
EZIOP-4DCI4DCOP $29

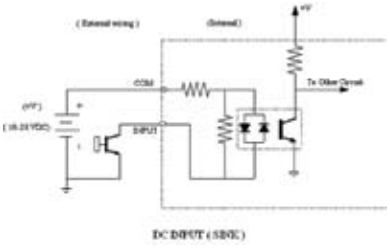


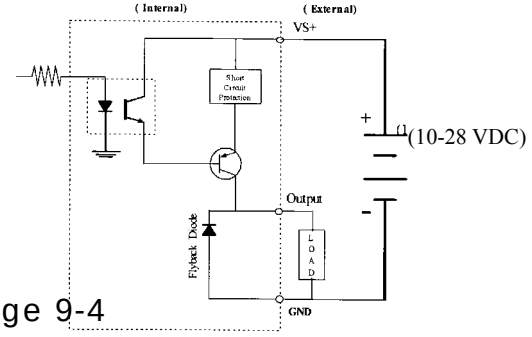
EZIOP-4DCI4DCOP
Screw-down

Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

Pinout Information	
Pin No.	EZIO-4DCI4DCOP
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	GND
6	Output(1)
7	Output(2)
8	Output(3)
9	Output(4)
10	GND
11	Customer_Supply(+VS)







For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™ 8 pt. 110VAC Input Module

Module Specifications	
Number of Inputs	8
Input Voltage Range	70-132 VAC
AC Frequency	47-63 Hz
Peak Voltage	180 Volt
Input Current	0.5mA @ 110 VAC
Maximum Input Current	0.6mA @ 132 VAC
Input Impedance	200K
ON Voltage Level	70 VAC
OFF Voltage Level	40 VAC
OFF to ON Response	< 10ms
ON to OFF Response	< 10ms
Status Indicators	Red LED for each input
Commons	2 Commons
Fuse	No fuse
Base Power Required (3.3V)	20mA for all 8 on
Optical Isolation	2500 Volt
Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

Delivery Code STK

EZIO-8ACI
Snap-in

EZIO-8ACI
$34

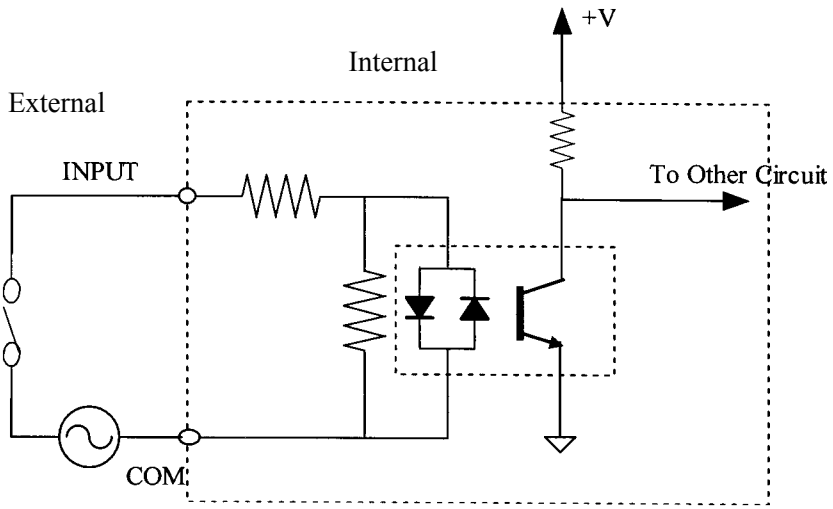
EZIOP-8ACI
$39



Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

EZIOP-8ACI
Screw-down

Pinout Information	
Pin No.	EZIO-8ACI
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	AC_Common
6	Input(5)
7	Input(6)
8	Input(7)
9	Input(8)
10	AC_Common
11	Not Connected



For EZ-LINK cables and Terminal boards look at page 9-4

EZI/O™ 8 pt. 110VAC Output Module

Module Specifications	
Number of Output Points	8
Number of Commons	2
Output Voltage Range	20-132 VAC
Peak Voltage	180 Volt
ON Voltage Drop	1.2 V @ 1A
Maximum Current	1.2 A @ 25°C, 0.8A @ 50°C for each output
Maximum Leakage Current	1mA @ 132 VAC
Maximum Inrush Current	38Amps for 16.6ms
Minimum Load	15mA
OFF to ON Response	max 1/2 cycle
ON to OFF Response	max 1/2 cycle
Fuse	No fuse
Base Power Required (3.3V)	70mA for all 8 on
Optical Isolation	2500 Volt
Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

Delivery Code STK

EZIO-8ACO
Snap-in

EZIO-8ACO
$34

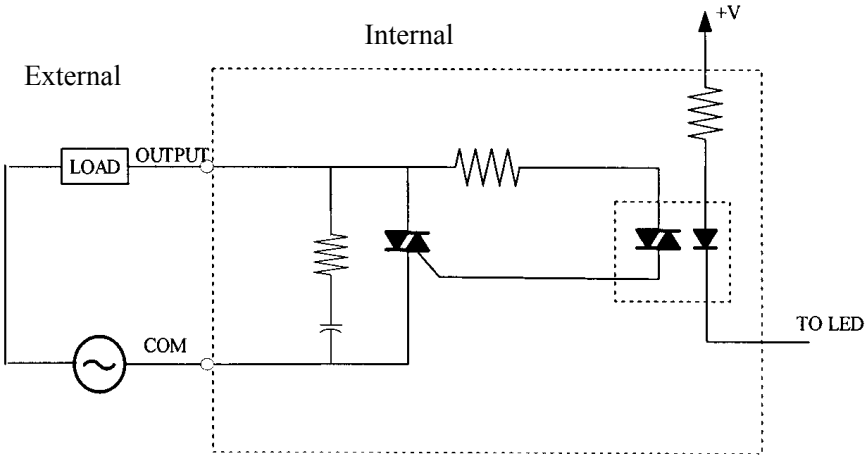
EZIOP-8ACO
$39



Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

EZIOP-8ACO
Screw-down

Pinout Information	
Pin No.	EZIO-8ACO
1	Output(1)
2	Output(2)
3	Output(3)
4	Output(4)
5	AC_Common
6	Output(5)
7	Output(6)
8	Output(7)
9	Output(8)
10	AC_Common
11	Not Connected



For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™

4 pt. 110VAC In , 4 pt. 110VAC Out Module

Delivery Code STK

EZIO-4ACI4ACO
Snap-in

EZIO-4ACI4ACO $34

EZIOP-4ACI4ACO $39

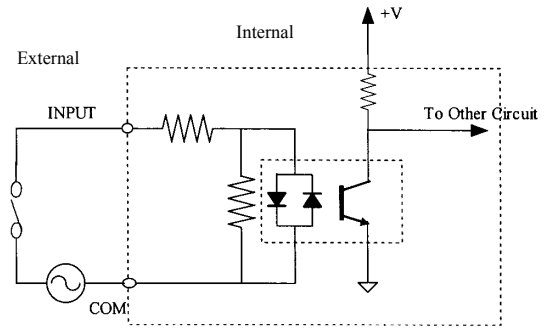


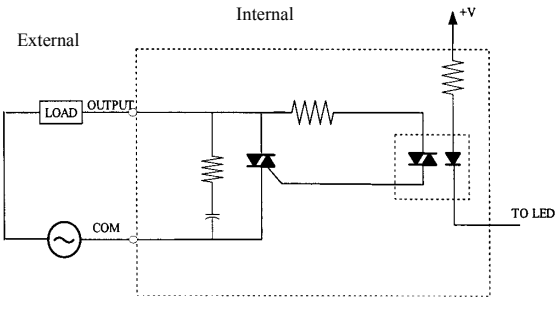
EZIOP-4ACI4ACO
Screw-down

Terminal Block 300 Volt/10 Amp/14AWG UL Rating

	Module Specifications	
AC Power Supply Specs	*Voltage Range*	
AC Input Specs	*Number of Inputs*	4
	Input Voltage Range	70-132 VAC
	AC Frequency	47-63 Hz
	Peak Voltage	180 Volt
	Input Current	0.5mA @ 110 VAC
	Maximum Input Current	0.6mA @ 132 VAC
	Input Impedance	200K
	ON Voltage Level	70 VAC
	OFF Voltage Level	40 VAC
	OFF to ON Response	< 10ms
	ON to OFF Response	< 10ms
	Status Indicators	Red LED for each input
	Commons	1 Common
	Fuse	No fuse
	Base Power Required (3.3V)	10mA for all 4 on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
AC Output Specs	*Number of Output Points*	4
	Number of Commons	1
	Output Voltage Range	20-132 VAC
	Peak Voltage	180 Volt
	ON Voltage Drop	1.2 V @ 1A
	Maximum Current	1.2 A @ 25°C, 0.8A @ 50°C for each output
	Maximum Leakage Current	1mA @ 132 VAC
	Maximum Inrush Current	38Amps for 16.6ms
	Minimum Load	15mA
	OFF to ON Response	max 1/2 cycle
	ON to OFF Response	max 1/2 cycle
	Fuse	No fuse
	Base Power Required (3.3V)	35mA for all 4 on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

Pinout Information	
Pin No.	EZIO-4ACI4ACO
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	AC_Common
6	Output(1)
7	Output(2)
8	Output(3)
9	Output(4)
10	AC_Common
11	Not Connected





For EZ-LINK cables and Terminal boards look at page 9-4

EZI/O™ 4 pt. 24VDC Out (Source), 4 pt. 110AC Out Module

Delivery Code STK

EZIO-4DCOP4ACO $34

EZIOP-4DCOP4ACO $44

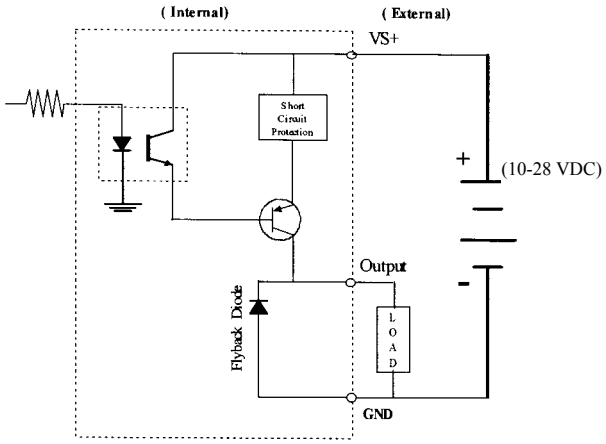
EZIO-4DCOP4ACO Snap-in

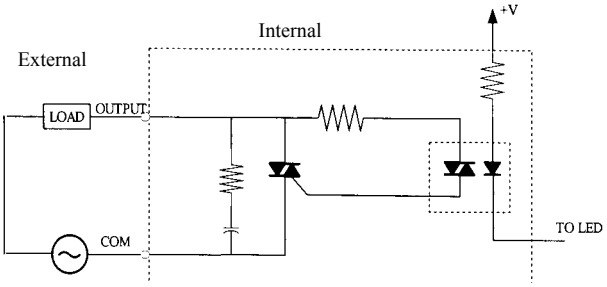


EZIO-4DCOP4ACO Screw-down Terminal Block 300 Volt/10 Amp/14AWG UL Rating

	Module Specifications	
AC/DC Power Supply Specs	*Voltage Range*	
DC Output Specs	*Number of Outputs*	4 (sourcing)
	Peak Voltage	50.0 VDC
	Maximum Steady State Output Current	0.5A per output, 1.0A max per module @ 50°C
	Maximum Leakage Current	100µA @ 50 VDC @ 50°C
	ON Voltage Drop	2 VDC @ 0.5A
	Maximum Inrush Current	0.8A for 10ms
	OFF to ON Response	< 2µs
	ON to OFF Response	<10µs
	Status Indicators	Red LED for each output
	+V Terminals & Commons	One V+, 1 Common
	Short Circuit Protection	1 Amp per module, turns off outputs upon short circuit detection
	Base Power Required (3.3V)	20mA, for all 4 on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
AC Output Specs	*Number of Output Points*	4
	Number of Commons	1
	Output Voltage Range	20-132 VAC
	Peak Voltage	180 Volt
	ON Voltage Drop	1.2 V @ 1A
	Maximum Current	1.2 A @ 25°C, 0.8A @ 50°C for each output
	Maximum Leakage Current	1mA @ 132 VAC
	Maximum Inrush Current	38Amps for 16.6ms
	Minimum Load	15mA
	OFF to ON Response	max 1/2 cycle
	ON to OFF Response	max 1/2 cycle
	Fuse	No fuse
	Base Power Required (3.3V)	35mA for all 4 on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

Pinout Information	
Pin No.	EZIO-4DCOP4ACO
1	AC Output(1)
2	AC Output(2)
3	AC Output(3)
4	AC Output(4)
5	AC_Common
6	DC Output(5)
7	DC Output(6)
8	DC Output(7)
9	DC Output(8)
10	GND
11	Customer_Supply(+VS)





For EZ-LINK cables and Terminal boards look at page 9-4

4 pt. 110VAC In/4 pt. 24V DC Out Module (Source)

Delivery Code STK

EZIO-4ACI4DCOP Snap-in

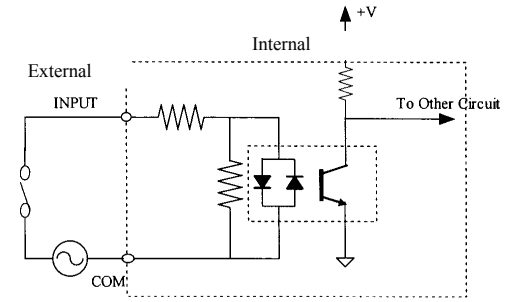


EZIO-4ACI4DCOP Screw-down

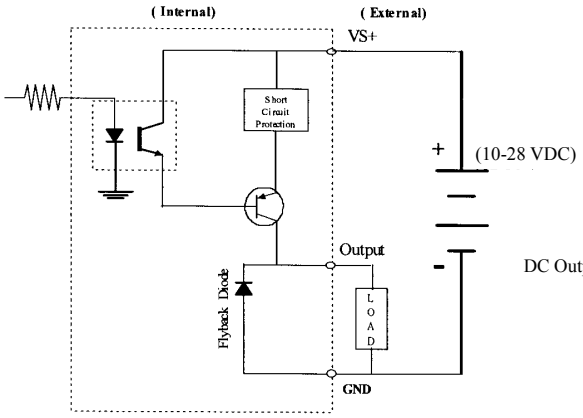
Terminal Block 300 Volt/10 Amp/ 14AWG UL Rating

	Module Specifications	
AC/DC Power Supply Specs	*Voltage Range*	
AC Input Specs	*Number of Inputs*	4
	Input Voltage Range	70-132 VAC
	AC Frequency	47-63 Hz
	Peak Voltage	180 Volt
	Input Current	0.5mA @ 110 VAC
	Maximum Input Current	0.6mA @ 132 VAC
	Input Impedance	200K
	ON Voltage Level	70 VAC
	OFF Voltage Level	40 VAC
	OFF to ON Response	< 10ms
	ON to OFF Response	< 10ms
	Status Indicators	Red LED for each input
	Commons	1 Common
	Fuse	No fuse
	Base Power Required (3.3V)	10mA for all 4 on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
DC Output Specs	*Number of Outputs*	4 (sourcing)
	Peak Voltage	50.0 VDC
	Maximum Steady State Output Current	0.5A per output, 1.0A max per module @ 50°C
	Maximum Leakage Current	100µA @ 50 VDC @ 50°C
	ON Voltage Drop	2 VDC @ 0.5A
	Maximum Inrush Current	0.8A for 10ms
	OFF to ON Response	< 2µs
	ON to OFF Response	<10µs
	Status Indicators	Red LED for each output
	+V Terminals & Commons	One V+, 1 Common
	Short Circuit Protection	1 Amp per module, turns off outputs upon short circuit detection
	Base Power Required (3.3V)	24mA, for all 4 on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

Pinout Information	
Pin No.	EZIO-4ACI4DCOP
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	AC_Common
6	Output(1)
7	Output(2)
8	Output(3)
9	Output(4)
10	GND
11	Customer_Supply(+VS)



AC (Input)



DC Output (Source)

For EZ-LINK cables and Terminal boards look at page 9-4

EZI/O™

4 pt. 24VDC In/ 4 pt. 110VAC Out Module

Delivery Code STK

EZIO-4DCI4ACO
Snap-in

EZIO-4DCI4ACO $34

EZIOP-4DCI4ACO $44

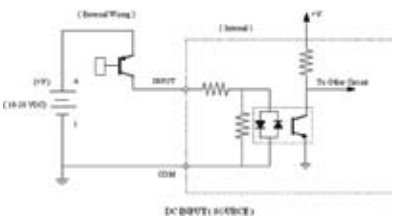


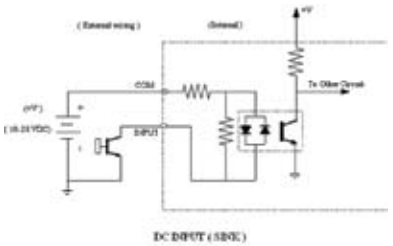
EZIOP-4DCI4ACO
Screw-down

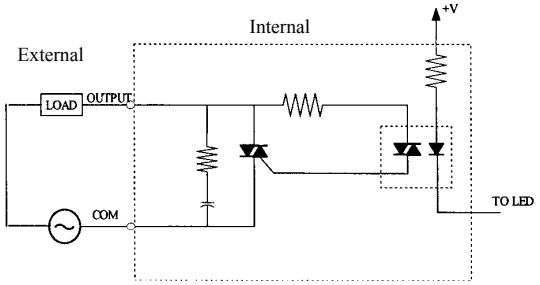
Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

	Module Specifications	
AC/DC Power Supply Specs	Voltage Range	
DC Input Specs	Number of Inputs	4 (sink/source)
	Input Voltage Range	10-28 VDC
	Peak Voltage	40 VDC
	Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
	Maximum Input Current	5 mA @ 28 VDC
	Input Impedance	5.6k @ 10-28 VDC
	ON Voltage Level	> 10 VDC
	OFF Voltage Level	< 2 VDC
	Min. ON Current	1.5 mA
	Min. OFF Current	0.2 mA
	OFF to ON Response	2-4 ms, typical 3 ms
	ON to OFF Response	2-4 ms, typical 3 ms
	Status Indicators	Red LED for each output
	Commons	1 point
	Fuse	No Fuse
	Base Power Required (3.3V)	Typical 7.5 mA (all inputs on)
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
AC Output Specs	Number of Output Points	4
	Number of Commons	1
	Output Voltage Range	20-132 VAC
	Peak Voltage	180 Volt
	ON Voltage Drop	1.2 V @ 1A
	Maximum Current	1.2 A @ 25°C, 0.8A @ 50°C for each output
	Maximum Leakage Current	1mA @ 132 VAC
	Maximum Inrush Current	38Amps for 16.6ms
	Minimum Load	15mA
	OFF to ON Response	max 1/2 cycle
	ON to OFF Response	max 1/2 cycle
	Fuse	No fuse
	Base Power Required (3.3V)	35mA for all 4 on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG

Pinout Information	
Pin No.	EZIO-4DCI4ACO
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	GND
6	Output(1)
7	Output(2)
8	Output(3)
9	Output(4)
10	AC_Common
11	Not Connected







For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™ 4 pt. Relay Out Module

with built-in Electromagnetic shield

Module Specifications	
Number of Outputs	4
Output Voltage Range	5-180 VDC or 20-132 VAC
Output Type	Relay 1 Form A (SPST)
Output Terminals Consumed	8
Peak Voltage	180 VDC/200 VAC
AC Frequency	47-63 Hz
Maximum Current (resist.)	1A/point
Maximum Leakage Current	0.5mA @ 130 VAC @ 60Hz
Maximum Switching Current	0.5A
Electromagnetic Shield	2 pF between contact and shield
Dielectric Strength	250V between contacts, 1500V between contacts and shield
OFF to ON Response	≤1ms (typical)
ON to OFF Response	≤1ms (typical)
Status Indicators	Red LEDs
Contacts	4 isolated
Base Power Required (3.3V)	50mA

Delivery Code STK

EZIO-4RLO
Snap-in

EZIO-4RLO $39

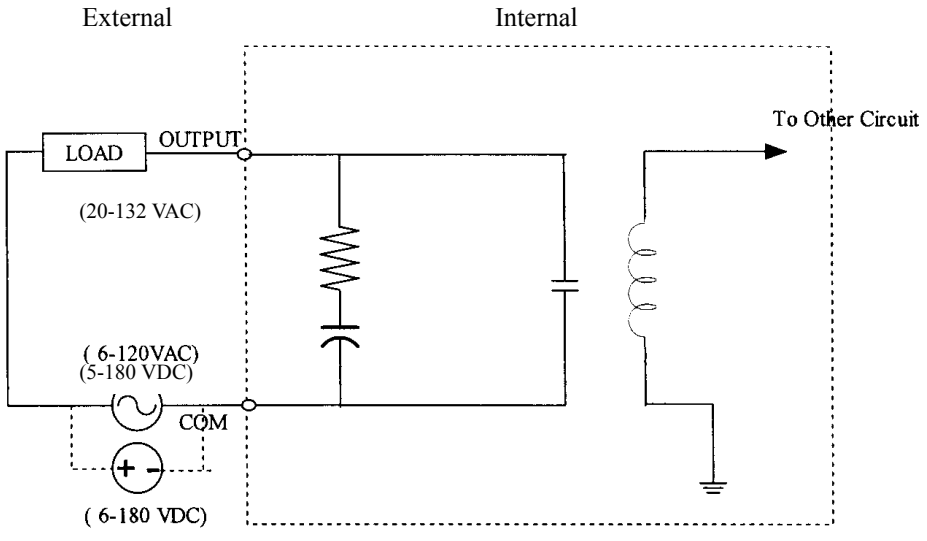
EZIOP-4RLO $49



Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

EZIOP-4RLO
Screw-down

Pinout Information	
Pin No.	EZIO-4RLO
1	Output(1)_Normally open
2	Output(1)_COM
3	Output(2)_Normally open
4	Output(2)_COM
5	Not Connected
6	Not Connected
7	Output(3)_Normally open
8	Output(3)_COM
9	Not Connected
10	Output(4)_Normally open
11	Output(4)_COM



For EZ-LINK cables and Terminal boards look at page 9-4

EZI/O™ 4 pt. 110 AC In/4 pt. Relay Out Module

with built-in Electromagnetic shield

	Module Specifications	
AC Input Specs	Number of Inputs	4
	Input Voltage Range	70-132 VAC
	AC Frequency	47-63 Hz
	Peak Voltage	180 Volt
	Input Current	0.5mA @ 110 VAC
	Maximum Input Current	0.6mA @ 132 VAC
	Input Impedance	200K
	ON Voltage Level	70 VAC
	OFF Voltage Level	40 VAC
	OFF to ON Response	< 10ms
	ON to OFF Response	< 10ms
	Status Indicators	Red LED for each input
	Commons	1 Common
	Fuse	No fuse
	Base Power Required (3.3V)	10mA for all 4 on
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
Relay Output Specs	Number of Outputs	4
	Output Voltage Range	5-180 VDC or 20-132 VAC
	Output Type	Relay 1 Form A (SPST)
	Output Terminals Consumed	5
	Peak Voltage	180 VDC/200 VAC
	AC Frequency	47-63 Hz
	Maximum Current (resist.)	1A/point
	Maximum Leakage Current	0.5mA @ 130 VAC @ 60Hz
	ON Voltage Drop	1.5 V @ 1 Amp
	Maximum Switching Current	0.5A
	Electromagnetic Shield	2 pF between contact and shield
	Dielectric Strength	250V between contacts, 1500V between contacts and shield
	OFF to ON Response	≤1ms (typical)
	ON to OFF Response	≤1ms (typical)
	Status Indicators	Red LEDs
	Commons	1
	Base Power Required (3.3V)	25mA

For EZ-LINK cables and Terminal boards look at page 9-4

EZIO-4ACI4RLO
Snap-in

EZIO-4ACI4RLO $44

Delivery Code STK

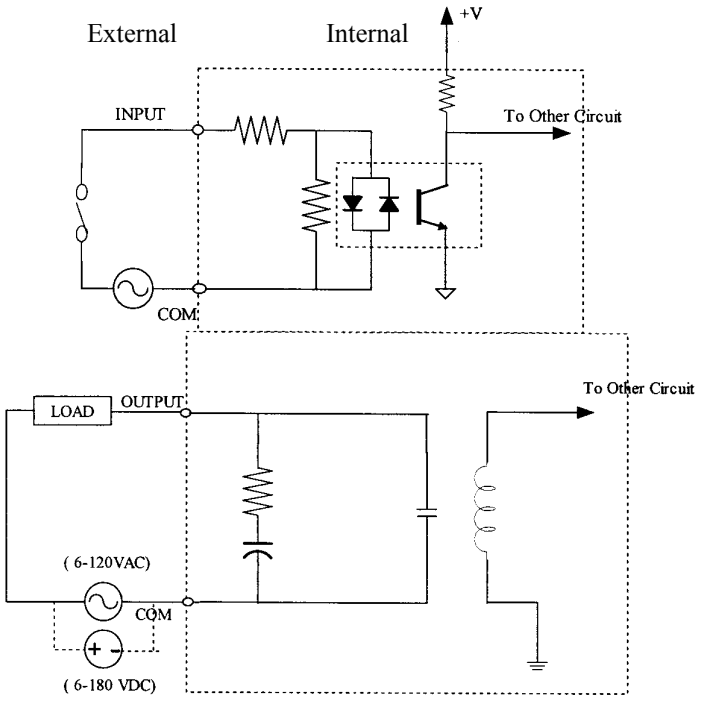
EZIOP-4ACI4RLO $54



EZIOP-4ACI4RLO
Screw-down

Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

Pinout Information	
Pin No.	EZIO-4ACI4RLO
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	Customer_COM (GND)
6	Output(1)_Normally open
7	Output(2)_Normally open
8	Output(3)_Normally open
9	Output(4)_Normally open
10	Customer_COM (GND)
11	Not Connected



EZ I/O™ 4 pt. 24VDC In/4 pt. Relay Out Module
with built-in Electromagnetic shield

	Module Specifications	
DC Input Specs	*Number of Inputs*	4 (sink/source)
	Input Voltage Range	10-28 VDC
	Peak Voltage	40 VDC
	Input Current	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
	Maximum Input Current	5 mA @ 28 VDC
	Input Impedance	5.6k @ 10-28 VDC
	ON Voltage Level	> 10 VDC
	OFF Voltage Level	< 2 VDC
	Min. ON Current	1.5 mA
	Min. OFF Current	0.2 mA
	OFF to ON Response	2-4 ms, typical 3 ms
	ON to OFF Response	2-4 ms, typical 3 ms
	Status Indicators	Red LED for each output
	Commons	2 points
	Fuse	No Fuse
	Base Power Required (3.3V)	Typical 7.5mA (all inputs on)
	Optical Isolation	2500 Volt
	Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
Relay Output Specs	*Number of Outputs*	4
	Output Voltage Range	5-180 VDC or 20-132 VAC
	Output Type	Relay 1 Form A (SPST)
	Output Terminals Consumed	5
	Peak Voltage	180 VDC/200 VAC
	AC Frequency	47-63 Hz
	Maximum Current (resist.)	1A/point
	Maximum Leakage Current	0.5mA @ 130 VAC @ 60Hz
	ON Voltage Drop	1.5 V @ 1 Amp
	Maximum Switching Current	0.5A
	Electromagnetic Shield	2 pF between contact and shield
	Dielectric Strength	250V between contacts, 1500V between contacts and shield
	OFF to ON Response	≤1ms (typical)
	ON to OFF Response	≤1ms (typical)
	Status Indicators	Red LEDs
	Commons	1
	Base Power Required (3.3V)	25mA

Delivery Code STK

EZIO-4DCIP4RLO
snap-in

EZIO-4DCIP4RLO $44

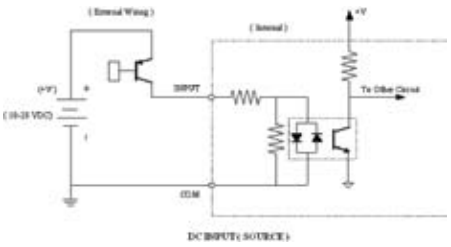
EZIOP-4DCIP4RLO $54

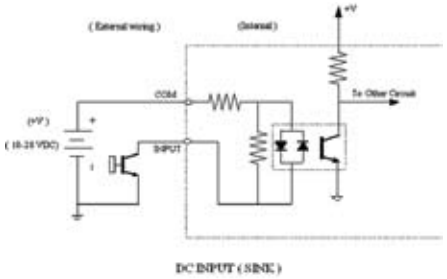


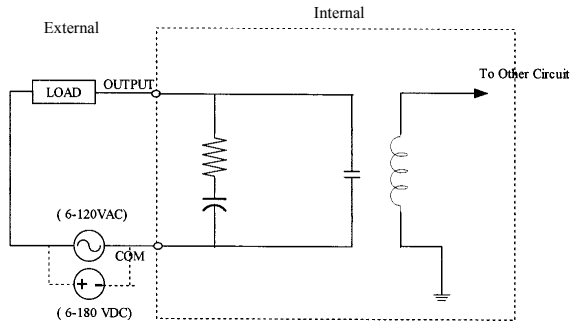
EZIOP-4DCIP4RLO
Screw-down

Pinout Information	
Pin No.	EZIO-4DCIP4RLO
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	Customer_COM (GND)
6	Output(1)_Normally open
7	Output(2)_Normally open
8	Output(3)_Normally open
9	Output(4)_Normally open
10	Customer_COM (GND)
11	Not Connected

Terminal Block
300 Volt/10 Amp/
14AWG UL Rating







For EZ-LINK cables and Terminal boards look at page 9-4

EZI/O™ 8 pt. Analog In Module (Voltage)

Delivery Code STK

EZIO-8ANIV Snap-in

EZIO-8ANIV $109

EZIOP-8ANIV $119

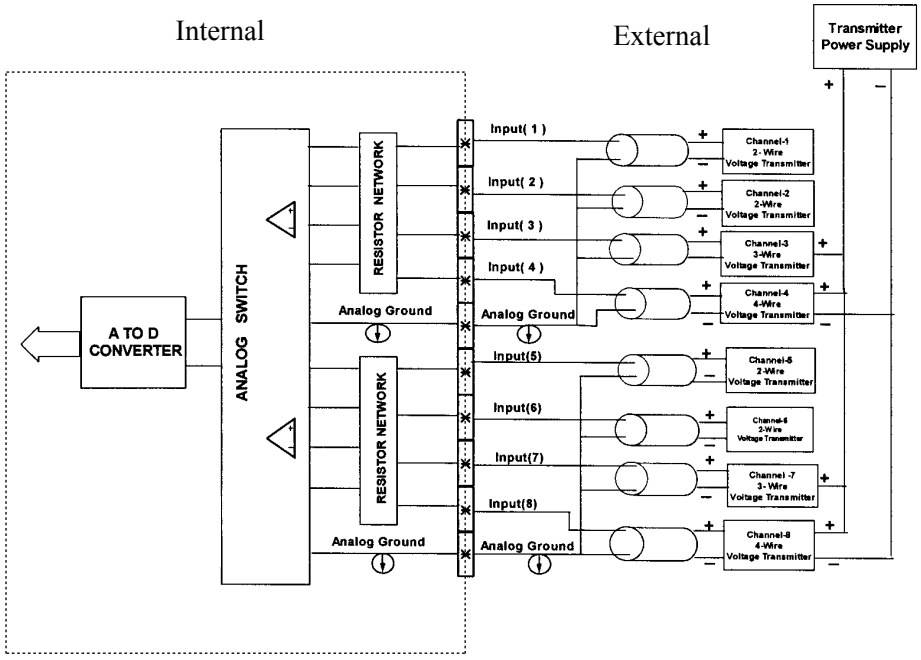


Terminal Block 300 Volt/10 Amp/ 14AWG UL Rating

EZIOP-8ANIV Screw-down

Module Specifications	
Number of Channels	8 single ended
Input Range	0-5, 0-10V DIP switch selectable
Resolution	12 bit (1-4096)
Step Response	200µs to 95% of FS
Crosstalk	1/2 count max, -80db
Input Impedance	>20KΩ
Absolute Max Ratings	± 15V
Converter Type	successive approximation
Linearity Error (end to end)	± 2 count
Input Stability	± 2 count
Gain Error	± 2 counts
Offset Calibration Error	± 5 counts
Max Inaccuracy	± 0.2% at 25°C, ± 0.4% at 0-60°C
Accuracy vs. Temperature	± 50 ppm/°C typical

Pinout Information	
Pin No.	EZIO-8ANIV
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	Customer_COM (Analog GND)
6	Input(5)
7	Input(6)
8	Input(7)
9	Input(8)
10	Customer_COM (Analog GND)
11	Not Connected



For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™ 8 pt. Analog In Module (Current)

Module Specifications	
Number of Channels	8 Single Ended
Input Range	0-20mA or 4-20 mA DIP switch selectable
Resolution	12 bit (1-4096)
Step Response	200µs for 95% FS
Crosstalk	1/2 count max, -80db
Input Impedance	62.5Ω ± 0.1%
Absolute Max Ratings	-30mA to 30mA
Converter Type	Successive Approximation
Linearity Error (end to end)	± 2 counts
Input Stability	± 1 count
Full-scale Calibration Error	± 10 counts @ 20mA
Offset Calibration Error	± 5 counts
Max Inaccuracy	± 0.3% @ 25°C, ± 0.6% @ 60°C
Accuracy vs. Temperature	± 50 ppm/°C typical
Recommended Fuse	.032 Amp, series 217 fast acting

EZIO-8ANIC
Snap-in

Delivery Code STK

EZIO-8ANIC $109

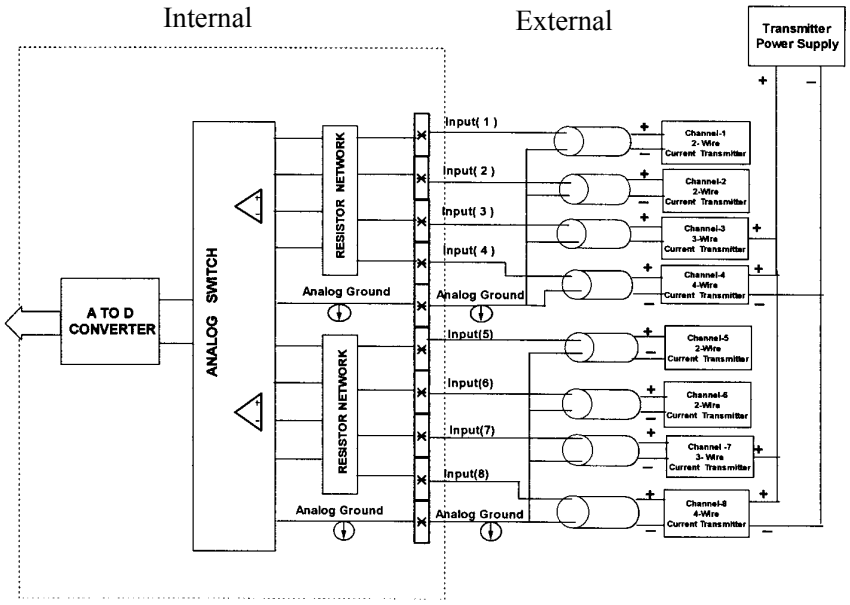
EZIOP-8ANIC $119



Terminal Block
300 Volt/10 Amp/
14AWG UL Rating
Dip switches on back

EZIOP-8ANIC
Screw-down

Pinout Information	
Pin No.	EZIO-8ANIC
1	Input(1)
2	Input(2)
3	Input(3)
4	Input(4)
5	Customer_COM (Analog GND)
6	Input(5)
7	Input(6)
8	Input(7)
9	Input(8)
10	Customer_COM (Analog GND)
11	Not Connected



For EZ-LINK cables and Terminal boards look at page 9-4

4 pt. Analog In/4 pt. Analog Out Module (Voltage)

Delivery Code STK

EZIO-4ANI4ANOV
Snap-in

EZIO-4ANI4ANOV
$109

EZIOP-4ANI4ANOV
$119



EZIOP-4ANI4ANOV
Screw-down

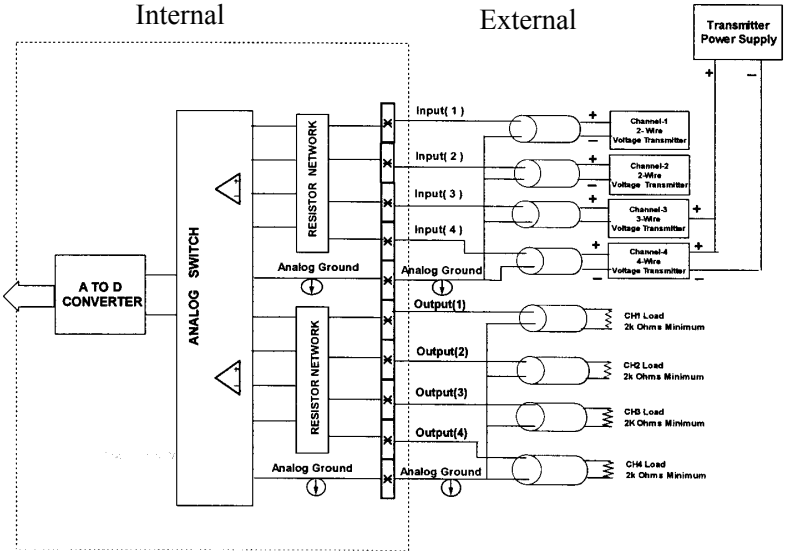
Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

	Module Specifications	
Analog Voltage Input Specs	*Number of Channels*	4 single ended
	Input Range	0-5, 0-10V DIP switch selectable
	Resolution	12 bit (1-4096)
	Step Response	200µs to 95% of FS
	Crosstalk	1/2 count max, -80db
	Input Impedance	>20KΩ
	Absolute Max Ratings	± 15V
	Converter Type	successive approximation
	Linearity Error (end to end)	± 2 count
	Input Stability	± 2 count
	Gain Error	± 2 counts
	Offset Calibration Error	± 5 counts
	Max Inaccuracy	± 0.2% at 25°C, ± 0.4% at 0-60°C
	Accuracy vs. Temperature	± 50 ppm/°C typical
Analog Voltage Output Specs	*Number of Channels*	4 single ended (1 common)
	Output Range	0-5 VDC, 0-10 VDC (DIP switch selectable)
	Resolution	12 bits (1 in 4096)
	Conversion Setting Time	100 µs for FS
	Crosstalk	1/2 count max, -80db
	Peak Output Voltage	± 18 VDC
	Offset Error	± 0.15% of range
	Gain Error	± 0.3% of range
	Linearity Error (end to end)	± 1 count
	Output Stability	± 2 counts
	Load Impedance	2k Ω min.
	Load Capacitance	.01 microF max
	Accuracy vs. Temperature	± 50 ppm/C typical

Pinout Information	
Pin No.	EZIO-4ANI4ANOV
1	Output(1)
2	Output(2)
3	Output(3)
4	Output(4)
5	Customer_COM (Analog GND)
6	Input(1)
7	Input(2)
8	Input(3)
9	Input(4)
10	Customer_COM (Analog GND)
11	Not Connected

Internal

External



For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™ 4 pt. Analog In/4 pt. Analog Out Module (Current)

Delivery Code 3DAY

EZIO-4ANI4ANOC
Snap-in

EZIO-4ANI4ANOC $109

EZIOP-4ANI4ANOC $119

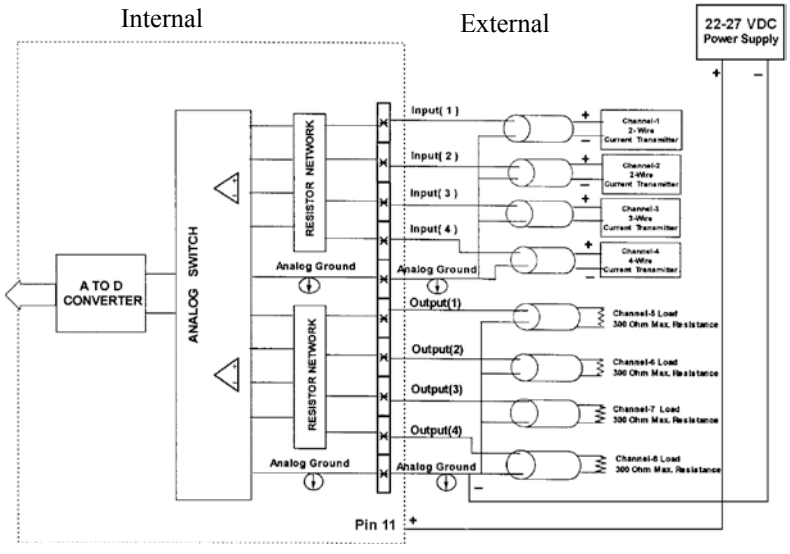


	Module Specifications	
Analog Current Input Specs	*Number of Channels*	4 Single Ended
	Input Range	0-20mA or 4-20 mA DIP switch selectable
	Resolution	12 bit (1-4096)
	Step Response	1ms for 95% FS
	Crosstalk	1/2 count max, -80db
	Input Impedance	62.5Ω ± 0.1%
	Absolute Max Ratings	-30mA to 30mA
	Converter Type	Successive Approximation
	Linearity Error (end to end)	± 2 counts
	Input Stability	± 1 count
	Full-scale Calibration Error	± 10 counts @ 20mA
	Offset Calibration Error	± 5 counts
	Max Inaccuracy	± 0.3% @ 25°C, ± 0.6% @ 60°C
	Accuracy vs. Temperature	± 50 ppm/°C typical
	Recommended Fuse	.032 Amp, series 217 fast acting
Analog Current Output Specs	*Number of Channels*	4 single ended
	Output Range	0-20mA, 4-20mA (DIP switch selectable)
	Output Type	Current Sourcing
	Resolution	12 bit (1-4096)
	Max. Loop Voltage	6 VDC
	Load/loop	0-300Ω
	Linearity Error (end to end)	± 2 counts
	Conversion Setting Time	100µs for FS
	Full-scale Calibration Error	± 12 counts
	Offset Calibration Error	± 6 counts
	Max. Full-scale Inaccuracy (all errors included)	± 0.3%

Pinout Information	
Pin No.	EZIO-4ANI4ANOC
1	Output(1)
2	Output(2)
3	Output(3)
4	Output(4)
5	Customer_COM (Analog GND)
6	Input(1)
7	Input(2)
8	Input(3)
9	Input(4)
10	Customer_COM (Analog GND)
11	22-27 VDC

EZIOP-4ANI4ANOC
Screw-down

Terminal Block
300 Volt/10 Amp/
14AWG UL Rating



For EZ-LINK cables and Terminal boards look at page 9-4

EZI/O™ Thermocouple Input Module

with broken wire detect

EZIO-4THIE
Snap-in

EZIO-4THI
$139

Delivery Code 3DAY

EZIOP-4THI
$139



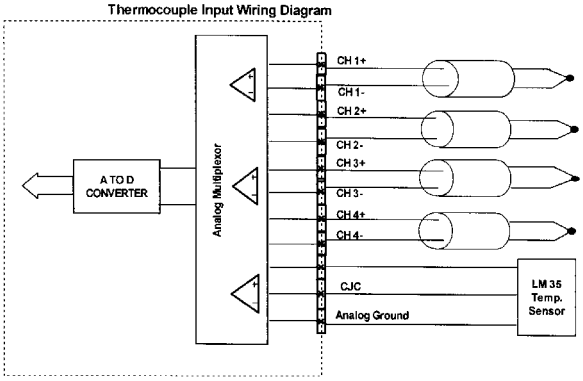
EZIOP-4THIE
Screw-down

Terminal Block
300 Volt/10 Amp/
14AWG UL Rating

Module Specifications	
Number of Channels	4, differential
Common Mode Range	-1.5 VDC to +4.0 VDC
Common Mode Rejection	100dB min. @ VDC 50/60Hz
Input Impedance	5MΩ
Absolute Maximum Ratings	Fault-protected inputs to ±50 VDC
Accuracy vs. Temperature	± 15ppm/°C max. 0-1.25V ±35 ppm/°C max. (including max. offset change)
PLC Update Rate	4 channels per scan
Base Power Required	10mA @ 3.3 VDC supplied by base
Operating Temperature	32° to 140°F (0° to 60°C)
Storage Temperature	-4° to 158°F (-20° to 70°C)
Relative Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	NEMA ICS3-304
Replacement Terminal Block	EZIO-TERM11CJC (comes with CJC)

Pinout Information	
Pin No.	4 Thermocouple Input
1	CHAN1 + (Input)
2	CHAN1 - (Input)
3	CHAN2 + (Input)
4	CHAN2 - (Input)
5	CHAN3 + (Input)
6	CHAN3 - (Input)
7	CHAN4 + (Input)
8	CHAN4 - (Input)
9	+ 5 VDC
10	Vout (Temp. Sensor)
11	Analog GND

Thermocouple Input Wiring Diagram



Thermocouple Specifications	
Input Ranges in C	Type J -40 to 340°C Type K -80 to 450°C Type S 25 to 720°C Type T -180 to 330°C
Display Resolution	Type J,K,T ± 0.1°C; Type S ± 1°C
Cold Junction Compensation	Automatic
Conversion Time	1ms per channel
Warm-Up Time	30 minutes typically ± 1°C repeatability
Linearity Error (End to End)	± 1°C max. ± 0.5°C typical
Maximum Inaccuracy	± 3°C (excluding thermocouple error)

*IMPORTANT

This module requires an EZPLC with Firmware Revision **B.0** or Later.

To check the firmware revision of your EZPLC:
Using the EZPLC Editor Software access the menu item **EZPLC > INFORMATION**... a window will open displaying the current **EXEC Software** and **BOOT Software** revisions.

To upgrade the firmware:
Download firmware at www.EZAutomation.net (downloads section). Once downloaded, use EZPLC editor and select **Setup>Upgrade Firmware** menu item.

For EZ-LINK cables and Terminal boards look at page 9-4

EZI/O™ High Speed Counter Modules with PLS Outputs

Delivery Code 3DAY

EZI/O System supports two High Speed 24 bit Counter Modules with PLS outputs that accept quadrature encoder inputs. The PLS outputs compare the counter value to two on/off presets and turn on outputs within 100µs of position change. Presets can be loaded into the counter modules from EZPLC. All inputs and outputs are optically isolated. In addition, PLS outputs are 0.5A short circuit proof DC outputs.

The counters have various preset/reset and inhibit modes as shown on the following page.

EZIO-HSCM1
EZIO-HSCM2
Snap-in

EZIO-HSCM1
EZIO-HSCM2
$99

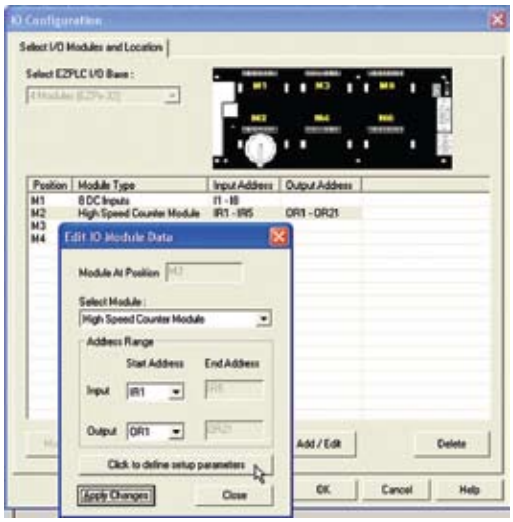
EZIOP-HSCM1
EZIOP-HSCM2
$99



EZIO-HSCM1
EZIO-HSCM2
Screw-down

Configuring your High Speed Counter Module is EZier than Ever!

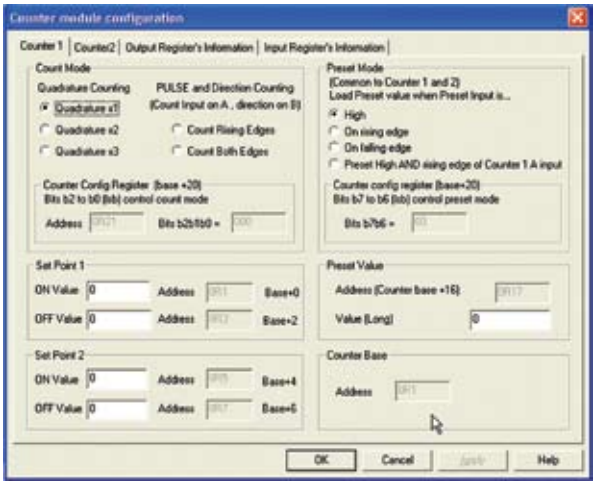
1. In EZPLC's I/O **configuration** specify the range of registers to be used for input and output.



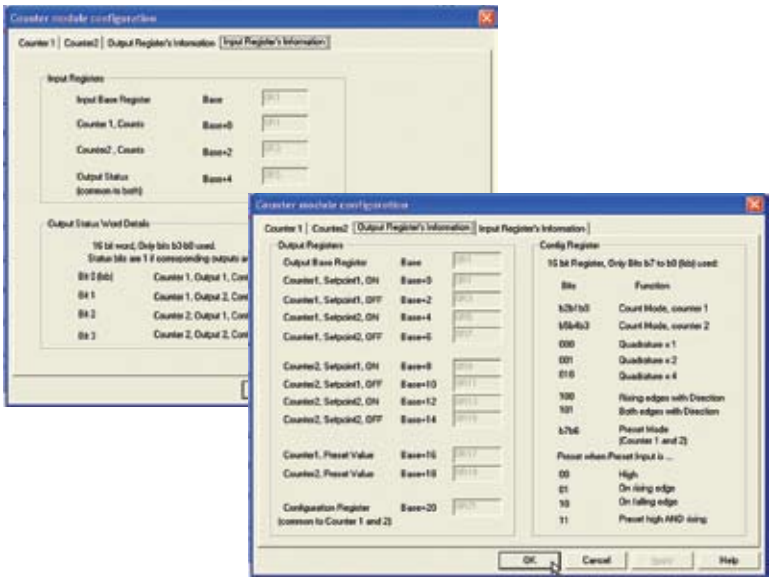
2 Counter Pin Out	
Pin No.	EZIO-HSCM1 *(dual counter)*
1	Quad A encoder 1
2	Quad B encoder 1
3	Quad A encoder 2
4	Quad B encoder 2
5	Common
6	Preset
7	Counter 1 Output 1
8	Counter 2 Output 1
9	Counter 2 Output 2
10	Counter 2 Output 2
11	Vs+

1 Counter Pin Out	
Pin No.	EZIO-HSCM2 *(single counter)*
1	Quad A encoder 1
2	Quad B encoder 1
3	Inhibit
4	Reset
5	Common
6	Preset
7	Counter 1 Output 1
8	Counter 1 Output 2
9	Counter 1 Output 3
10	Counter 1 Output 4
11	Vs+

2. **Configure pulse, direction, quadrature counting, set points,** preset values and preset mode



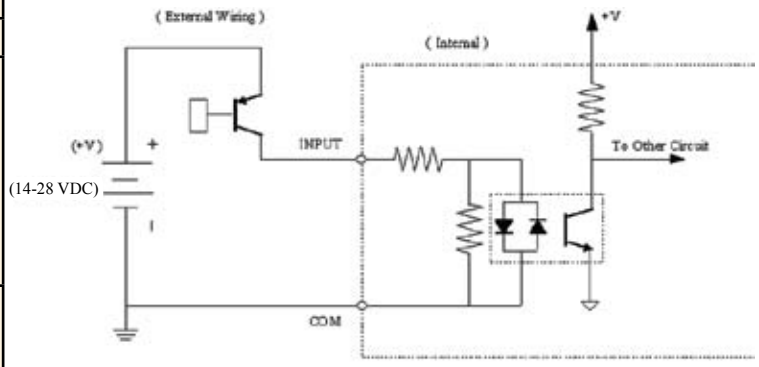
3. Detailed information for input and output registers



EZI/O™ High Speed Counter Module Specifications

Module Specifications		
Feature	*EZIO-HSCM1 (dual)*	*EZIO-HSCM2 (single)*
Module Type	Intelligent High Speed **Dual** Counter Module	Intelligent High Speed **Single** Counter Module
Maximum Input Frequency	100KHz after 1X, 2X or 4X Multiplication	60KHz after 1X, 2X or 4X Multiplication
Minimum Pulse Width	5 µs	
Resource Options	1X, 2X, or 4X Quadrature, Up or Down Counter, Reset	
Counter Range	16 million (24 bits)	
Preset Modes	1. This mode will preset the counter to the preset value while preset is held high. While the preset signal is high, no new count signals will be counted. 2. This mode will create an interrupt on the rising edge of the reset signal to set the counter to the preset value. 3. This mode will create an interrupt on the falling edge of the preset signal to set the counter to the preset value. 4. This mode will create a preset pulse every time that there is a rising edge of signal A and the preset signal is high.	
Reset Modes/Input	None	Same as Preset except the reset input sets the counter value to zero
Inhibit Input	None	Inhibits the counter from counting when high

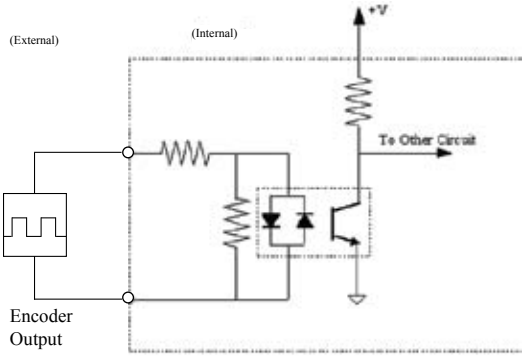
General Specifications	
Optical Isolation	2500 Volt
Wires	1 of 14 AWG, 2 of 18 AWG, 4 of 22 AWG
Operating Environment	0-60°C, Humidity non-condensing 5-95%



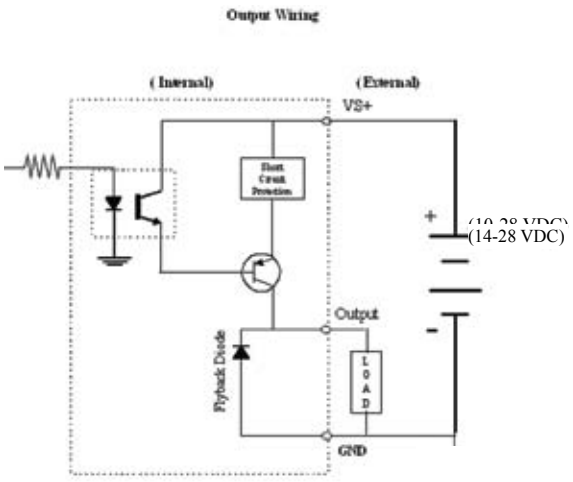
DC INPUT (Source)
for Control Signals

PLS Output Specifications		
Feature	*EZIO-HSCM1 (dual counter)*	*EZIO-HSCM2 (single counter)*
Number of Outputs	2 Source outputs for each counter	4 Source outputs
Response Time	100µs	
PLS Setpoints	1 on/off pair for each output	
Peak Voltage	50.0 VDC	
Maximum Steady State Output Current	0.5A per output, 1.0A max per module @ 50°C	
Maximum Leakage Current	100µA @ 50 VDC @ 50°C	
ON Voltage Drop	2 VDC @ 0.5A	
Maximum Inrush Current	0.8A for 10ms	
OFF to ON Response	< 2µs	
ON to OFF Response	<10µs	
Status Indicators	Red LED for each output	
+V Terminals & Commons	One V+, 1 Common	
Short Circuit Protection	1 Amp per module, turns off outputs upon short circuit detection	
Optical Isolation	2500 Volt	

Counter Input Specifications		
Feature	*EZIO-HSCM1 (dual counter)*	*EZIO-HSCM2 (single counter)*
Number of Inputs	5	
Input Voltage Range	14-28 VDC	
Peak Voltage	40 VDC	
Input Current	2.5 mA @ 14 VDC 5.0 mA @ 28 VDC	
Maximum Input Current	5 mA @ 28 VDC	
Input Impedance	5.6KΩ min. @ 14-28 VDC	
ON Voltage Level	> 14 VDC	
OFF Voltage Level	< 2 VDC	
Min. ON Current	2.5 mA	
Min. OFF Current	0.2 mA	
OFF to ON Response	< 2µs	
ON to OFF Response	< 3µs	
Status Indicators	Red LED for each input	
Commons	1 point	



DC INPUT (Source)
for Control Signals



For EZ-LINK cables and Terminal boards look at page 9-4

EZ I/O™ Resistance Temperature Detector

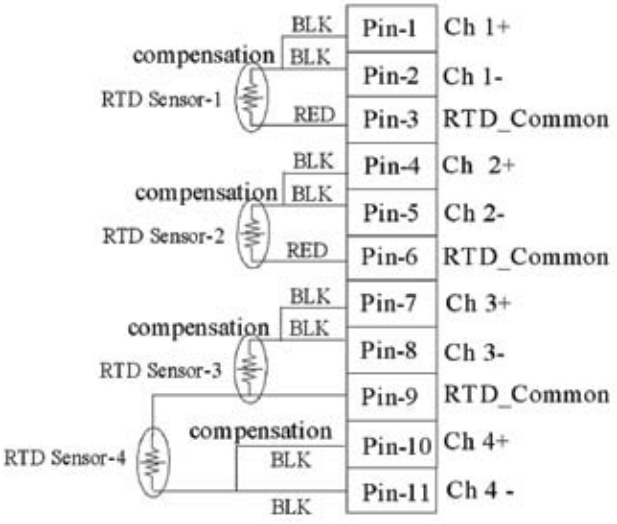
EZIO-RTD
Snap-in



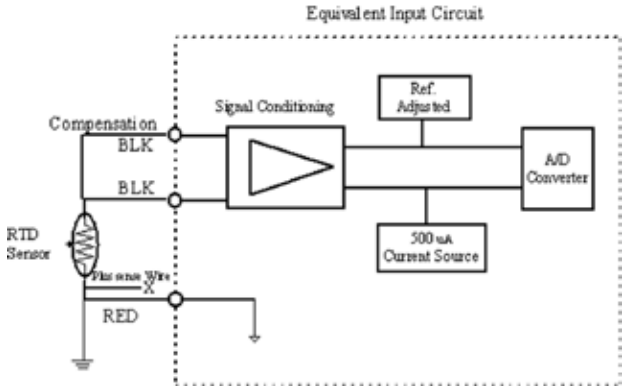
EZIOP-RTD
Screw-down

Pinout Information	
1	CHAN1 +
2	CHAN1 -
2	RTD_COMMON
4	CHAN2 +
5	CHAN2 -
6	RTD_COMMON
7	CHAN3 +
8	CHAN3 -
9	RTD_COMMON
10	CHAN4 +
11	CHAN4 -

RTD Input Specifications	
Number of Channels	4
Common Mode Range	0-3.3 VDC
Coverter Type	12-bit
Update Rate	All Channels per scan
Input Words Required	4 IR Words
Temperature Drift	50 ppm / °C (max)
Maximum Inaccuracy	+ / - 3 °C
RTD Excitation Current	500 uA
Operating Temperature	0 °C to 60 °C
Storage Temperature	-20 °C to 70 °C
Relative Humidity	5 to 95 %
Terminal Block	300 Volt/10 Amp/ 14 AWG UL Rating
Optical Isolation	2500 Volt



RTD Input Ranges			
RTD Input Ranges	Temperature Coefficient of Resistance (TCR) (Ω/Ω°C)	Temperature Ranges	Resolution
Pt100	0.00385	-200 °C to + 850 °C	0.29
120 Ni	0.00672	-80 °C to 260 °C	0.22
10 Cu	0.00427	-200 °C to 260 °C	2.64



For EZ-LINK cables and Terminal boards look at page 9-4

EZI/O™ Pulse Width/Pulse Train Module

The EZIO-PM module is an intelligent module for use with the EZSeries PLCs and provide either Pulse Train Output (PTO) or Pulse Width Modulator (PWM) outputs. The module offers 2 channels of outputs. Each channel can be independently programmed to be either PTO or PWM. "P" type or sourcing outputs are provided for EZIO-PM-P model and Differential outputs are provided for EZIO-PM-D model. Please note that the "D" differential model has only one output.

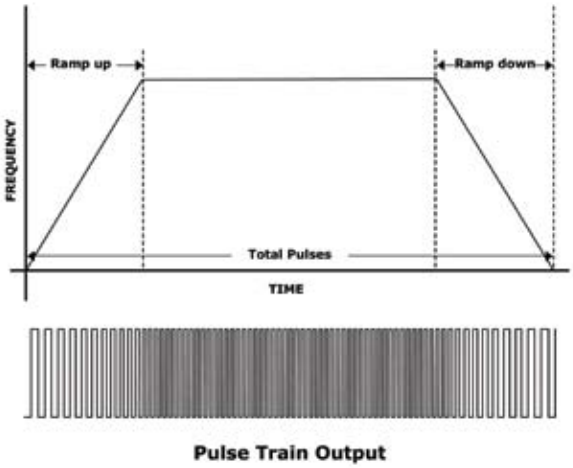


EZIO-PM-P
EZIO-PM-D
Snap-in

EZIOP-PM-P
EZIOP-PM-D
Screw-down

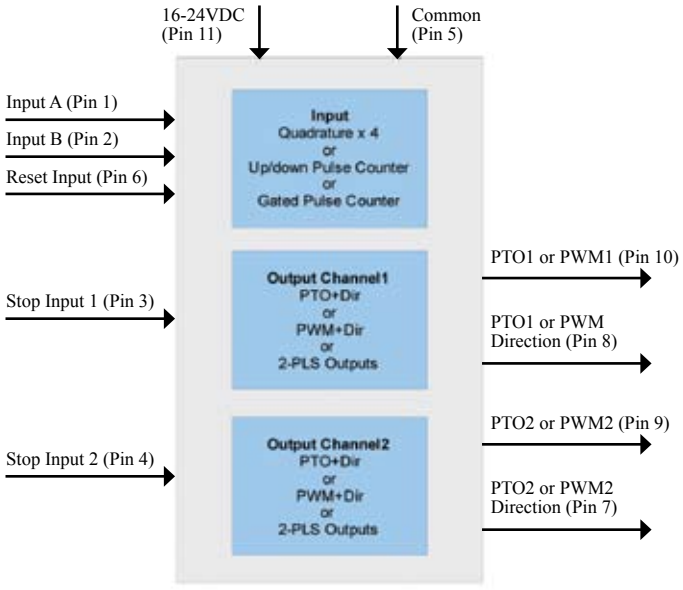
Pulse train Output (PTO) Function

In PTO mode, user specifies Ramp-up and Ramp-down time, total number of pulses to output (includes those generated during ramp up and down), and the frequency at run time. The module generates a pulse train output that ramps up from a minimum frequency (approx 40 Hz) to the user programmed maximum frequency within the ramp-up time. The module would ramp down at such a time so that the total number of pulses generated equals programmed number of pulses. In addition to the PTO output, the module provides a user controlled Direction output for each channel.



Pulse Train Output

Functional Block Diagram



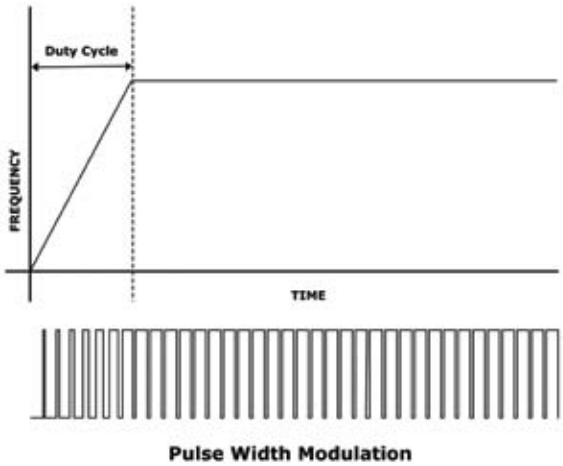
* Differential output module has only one output
* Outputs use ET727 10-30V output chips with 20mA drive and short circuit protection
* Pins 10 & 8 become positive and Pins 9 & 7 become negative terminals in case of differential outputs.

Quadrature Encoder Input

The module also accepts a quadrature input upto a frequency of 100KHz. the count can be multiplied by 2 or 4. 2^{32} number of counts are allowed. The module allows internal atrt or stop functions for PTO or PWM function based upon count value.

Pulse Width Modulation (PWM) Function

In PWM mode, the module generates a Pulse output with varying duty cycle. The Ramp-up time, frequency and duty cycle is specified by the user, and the module generates a pulse outputs waveform with the specified parameters. The duty cycle goes from 0 to the programmed value within the ramp up time. User also has control over Direction output for each channel.



Pulse Width Modulation

For complete details and specifications of this module log on to http://www.ezautomation.net/pwm

EZRIO™

Best Value, EZiest to configure Industrial I/O for PLCs, PCs & Networks

Ethernet IP, Modbus TCP/IP, Modbus RTU, DeviceNet & Profibus



THE MOST SENSIBLE REMOTE I/Os

Innovate'n'Save™

EZ RIO™

World Class Maintenance Friendly, Low Cost, Remote I/O

Remote I/O for PLCs

Ethernet IP, Modbus TCP/IP, Modbus RTU, DeviceNet, profibus and EZSeries Protocols





Remote I/O for PC based Controls

Modbus RTU, Modbus TCP/IP & EZ Protocols



Analog I/O per pt. $15.91

Remote I/O for Distributed Controls & Networks

Modbus TCP/IP, Ethernet IP, EZIP



$5.03 per discrete pt.

Innovate'n'Save™

What is EZ Remote I/O?

EZ Remote I/O is extremely cost effective World class I/O that can on one hand reduce the cost of control system by as much as 50% while adding features loved by maintenance people. It is compact, modular, flexible and has wide ranging communication capability over- Ethernet IP, Modbus RTU, EZIP Modbus TCP/IP, DeviceNet or Profibus.

In addition EZ Remote I/O can inexpensively add high level intelligent I/O to your PLC or PC based controls such as High speed counters/PLSs and Pulse Width Modulated outputs.

What does it have?

- EZRemote I/Os are available in four building blocks (32, 48, 64 & 96 I/O bases)
- 8-2048 system I/O capability
- Extremely flexible 8 point I/O models
- Two integrated communication ports RS232 and RS422/485
- RS422/485 supports Modbus RTU or ASCII protocol
- Ethernet with Ethernet IP, Modbus TCP/IP, EZIP, DeviceNet or Profibus option
- Extremely cost effective Analog I/O
- 100 kHz counter module with PLS outputs, 250 kHz PWM module
- Interrupt Input
- EZ to use Remote I/O configuration software
- Modular Snap-in Discrete and analog I/O modules on the base
- Discrete and analog I/O modules with removable terminal blocks
- AC / DC Combo I/O modules are available at an incredible price
- Mixed Analog and Discrete I/O modules are also available

Where does it make sense?

EZ Remote I/O makes sense in practically all PLC or PC based control systems, for example you may want to add low cost analog I/O to your MicroLogix 1100 or add PWM capability to MicroLogix 1200. PLC CPU remains the same eliminating the need to learn new Ladder Logic software, however you can reduce the system cost as much as 50%.

EZRIO™ Wide Variety of Inexpensive Plug-in I/O Modules: Discrete, Analog and Intelligent such as PWM, High Sped Counter/PLS



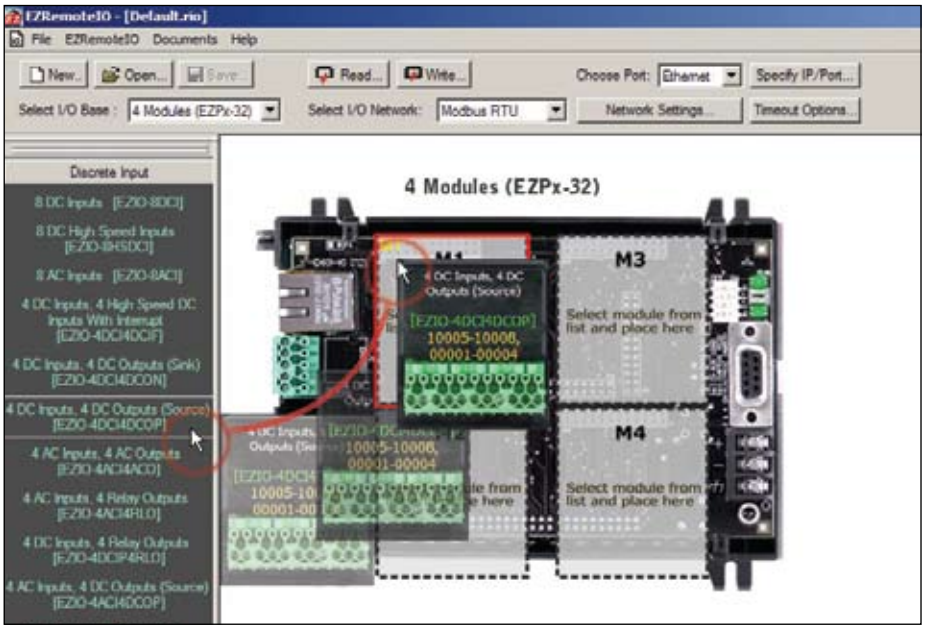
Innovate'n'Save™

		Snap-in	Screw-down
4 Thermocouple Input	4THI	$139	$139
High Speed Counter, 1 input/4 output	HSCM1	$99	$99
High Speed Counter, 2 input/4 output	HSCM2	$99	$99
Resistance Temperature Detector	RTD	$179	$179
Pulse Width Module	PWM	$179	$179
Program Storage Module	PRGM	$49	$59
8 pt 24V DC In	8DCI	$22	$29
8 pt 24V DC Out Source	8DCOP	$22	$29
8 pt 24V DC Out Sink	8DCON	$22	$29
8 pt 24V DC In Fast	8HSDCI	$27	$34
4 pt 24V DC In, 4 pt 24V DC Out Sink	4DCI4DCON	$22	$29
4 pt 24V DC In Standard, 4 pt 24V DC In Fast Interrupt	4DCI4DCIF	$27	$34
4 pt 24V DC In, 4 pt 24V DC Out Source	4DCI4DCOP	$22	$29

		Snap-in	Screw-down
8 pt 110 AC In	8ACI	$34	$39
8 pt 110 AC Out	8ACO	$34	$39
4 pt 110 AC In, 4 pt 110 AC Out	4ACI4ACO	$34	$39
4 pt 24V DC Out Source, 4 pt 110 AC Out	4DCOP4ACO	$34	$44
4 pt 110 AC In, 4 DC Out Source	4ACI4DCOP	$34	$44
4 pt 24V DC In, 4 110 AC Out	4DCI4ACO	$34	$44
8 Analog In Voltage	8ANIV	$109	$119
8 Analog In Current	8ANIC	$109	$119
4 Analog In, 4 Analog Out Voltage	4ANI4ANOV	$109	$119
4 Analog In, 4 Analog Out Current	4ANI4ANOC	$109	$119
4 pt Relay Out	4RLO	$39	$49
4 pt 110 AC In, 4 Relay Out	4ACI4RLO	$44	$54
4 pt 24V DC In Source, 4 Relay Out	4DCIP4RLO	$44	$54

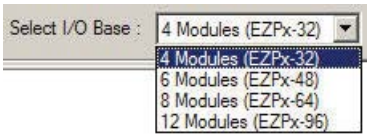
EZiest to configure, Drag-n-Drop, Automatic Address Assignment

For Video Demonstration log onto:
http://flash.ezautomation.net/ezio/auto_assignment



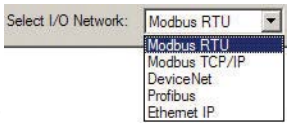
1 Select the I/O Base

Choose the 4 types of I/O base for your I/O modules



2 Select the I/O Network

Choose the Network type Modbus RTU, Modbus TCP/IP, DeviceNet, Profibus



3 Drag-n-Drop I/O Modules

Pick the I/O modules and Drop it on the I/O base, software automatically assigns all the nodes

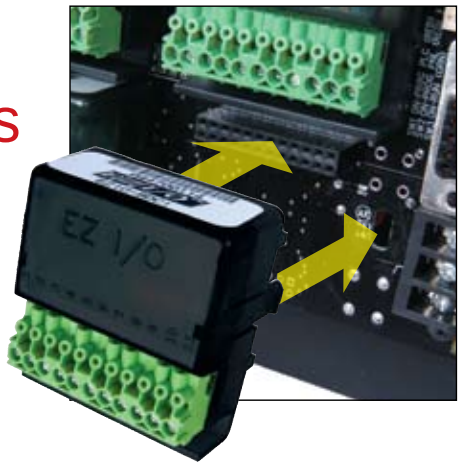
4 Changing the Network

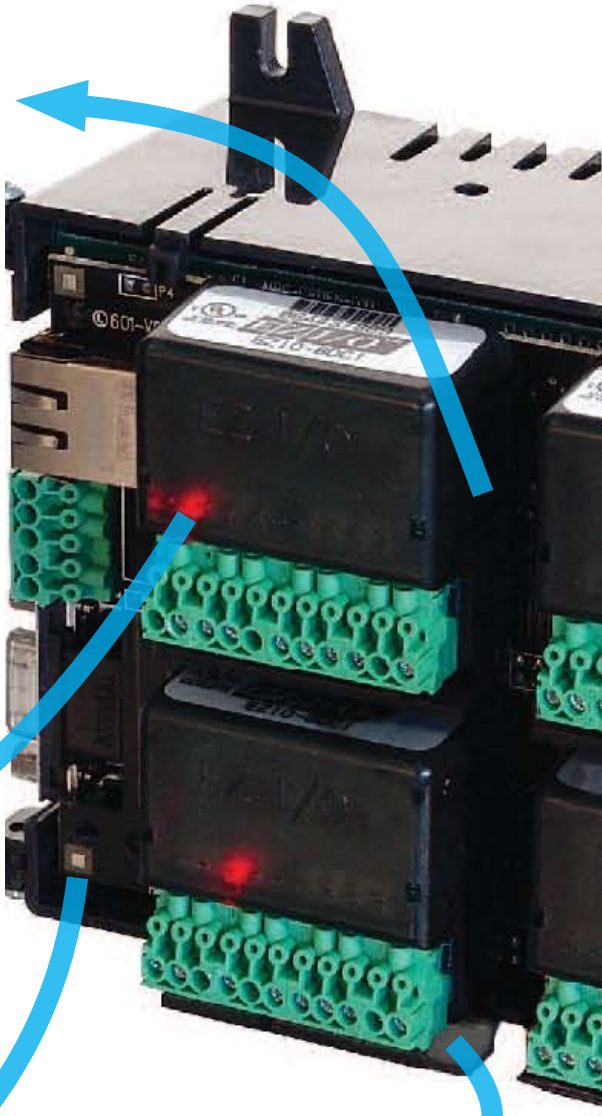
Changing the Network automatically changes the Address to the respective Network

EZRIO™ We Looked At Every Detail!

Snap-in or Screw down I/O Modules



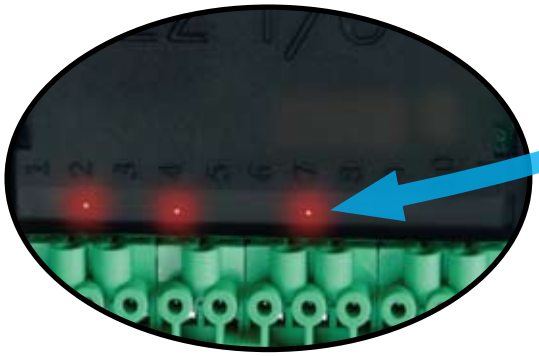




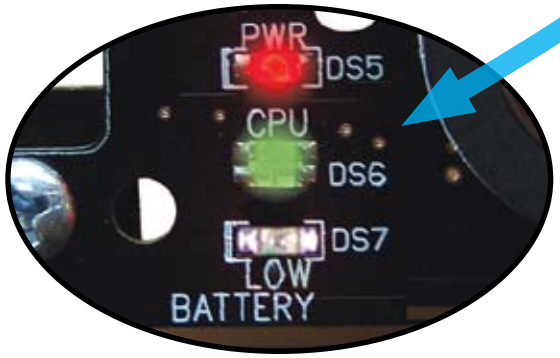
4 In/4 Out Wide Variety of Mix-n-Match I/O Modules

EZPLC offers the widest range of 4 In/4 Out I/O modules. Mix 4 DC In with 4 AC Out.

I/O Status LED Indicators



CPU Status Indicator LEDs



Built-in Wiring Guide

Innovate'n'Save™

AC/DC Mixed Modules for Highest Flexibility



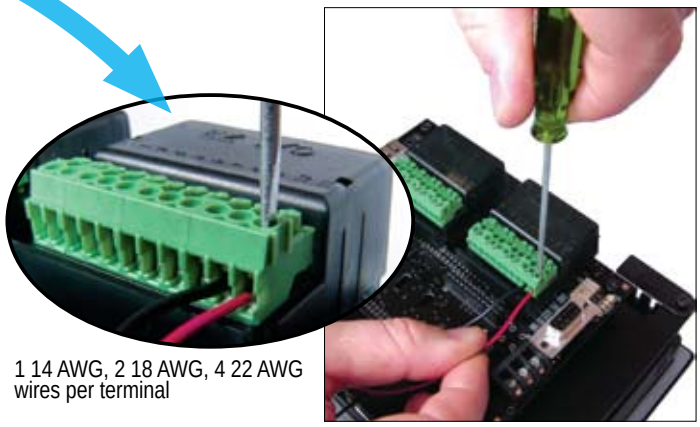
Shown here with Hinged snap-in cover removed to show details



0.5 Amp Short Circuit Proof DC Outputs

This 2x2x1" ultra compact module has 8 DC Outputs rated at 0.5 Amp each that are short circuit proof!

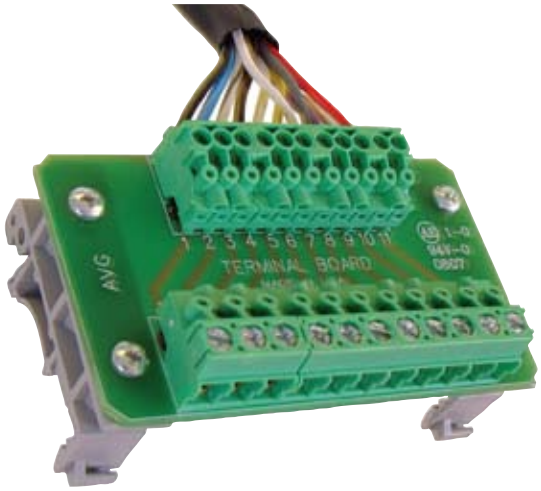
EZ to Wire Phoenix Plug-in Terminal Blocks



1 14 AWG, 2 18 AWG, 4 22 AWG wires per terminal

24 VDC or 110 VAC power input

EZLink for bigger terminal blocks or 10 Amp relay outputs



DIN mount I/O Terminal Interface using removable terminal blocks

EZRIO™ Head to Head Comparisons with Other Remote I/Os

2 EZRIO for the Price of 1 Terminator I/O from Automation Direct

6 EZRIO for the Price of 1 Flex I/O from Allen Bradley

EZI/O is an excellent choice of Field I/O for low cost I/O expansion of PLCs. All you need is Ethernet or DeviceNet or Profibus on the PLC network. The local processor in this configuration is also capable of performing local logic if you choose to do. This processor is also capable of storing 64K byte of data.

DeviceNet

40 Point Field Remote I/O - Head to Head			
			
Features	*EZRIO*	*Terminator I/O*	*AB Flex I/O*
16 Point DC In 8 Point DC In 8 Point Relay Out 8 Point Analog In	**$482**	**$887**	**$2934**

Profibus

40 Point Field Remote I/O - Head to Head			
			
Features	*EZRIO*	*Terminator I/O*	*GE Versamax I/O*
16 Point DC In 8 Point DC In 8 Point Relay Out 8 Point Analog In	**$542**	**$941**	**$1471**

Ethernet

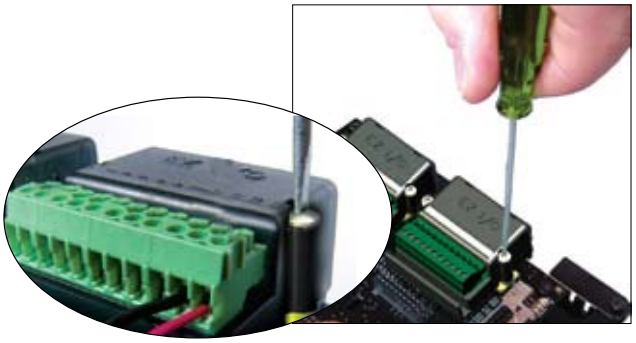
40 Point Field Remote I/O - Head to Head		
		
Features	*EZRIO*	*Terminator I/O*
16 Point DC In 8 Point DC In 8 Point Relay Out 8 Point Analog In	**$**	**$934**



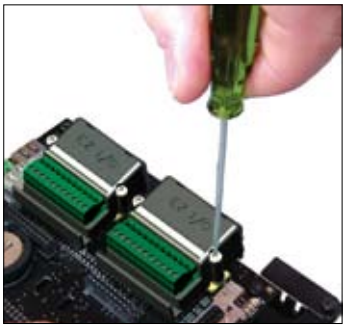
Status Indicators and Connections

Screw-down I/O

Insert I/O Modules
Screw-down two captive screws into the two threaded retainers on the base.



Remove I/O Modules
Remove by unscrewing the two captive screws on the sides of the module.

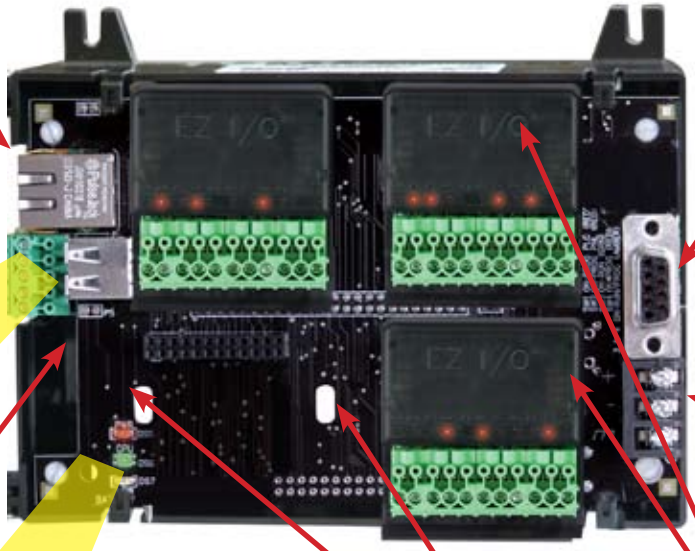


Caution: Do not use AC output module in the bottom left slot due to height of the battery. Analog IN/OUT module can be used only on the first 4 slots. Other analog modules or High Speed counter module can be used only in the first ten slots.
Avoid excessive force while screwing down to avoid stripping.

Optional Ethernet connectivity

RS422/485 ASCII Port
Used to send ASCII instructions to other devices





RS232 Programming Port
Used to program PLC or TextPanel

Pin #	Function
2	TXD
3	RXD
5	Logic GND
Rest	NC

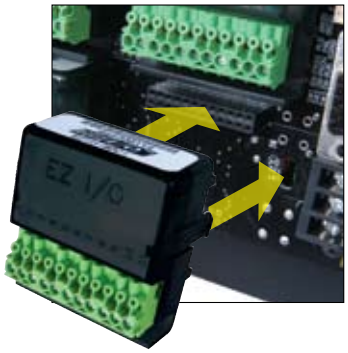
110 VAC or 24 VDC Power Input



Power LED
CPU LED
Low Battery LED

Snap-in I/O

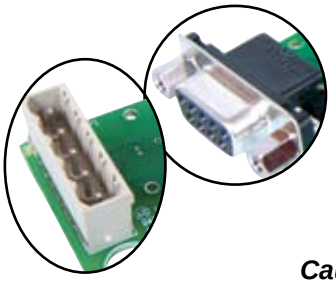
Insert I/O Modules
Snapped into the two slots



Remove I/O Modules
Removed from the slots by pressing the two clips on the side of the module.



DeviceNet, Profibus
Optional Port





Back side of EZI/O module

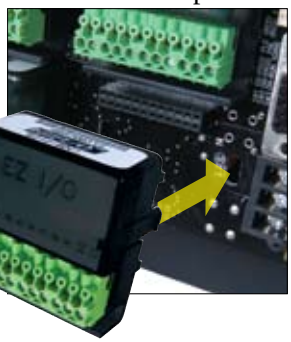
Caution: Do not use AC output module in the bottom left slot due to height of the battery. Analog IN/OUT module can be used only on the first 4 slots. Other analog modules or High Speed counter module can be used only in the first ten slots.

EZRIO™ EZIO Module Installation and Wiring

Inserting and Removing Snap-in I/O Modules

Insert I/O Modules

EZI/O modules have two clips and a molex connector which snap into EZSeries TouchPLCs, TextPLCs, or PLC bases. Make sure the male molex connector is aligned to the female counterpart on the base.





Back side of EZI/O module

Remove I/O Modules

Removed from the slots by pressing the two clips inward on the sides of the module to release the clips from the base. You may need to use your thumb to apply enough force.

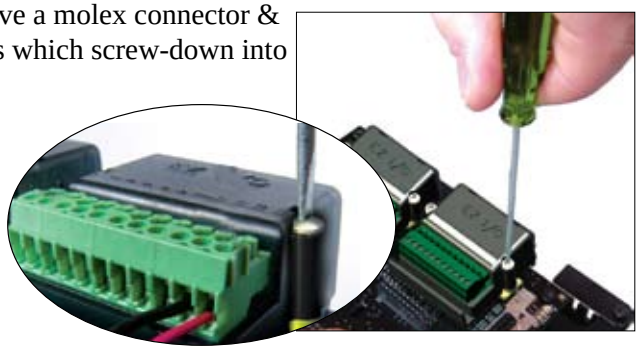


Inserting and Removing Screw-down I/O Modules

Insert I/O Modules

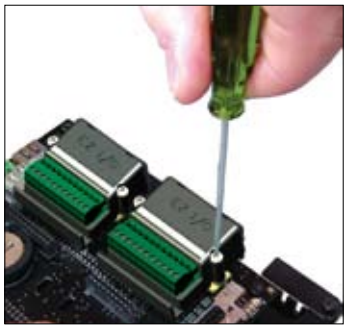
EZI/O modules have a molex connector & two captive screws which screw-down into base of the PLC.

Note: For using screw-down EZI/O modules, the PLC base must be the Plus series.



Remove I/O Modules

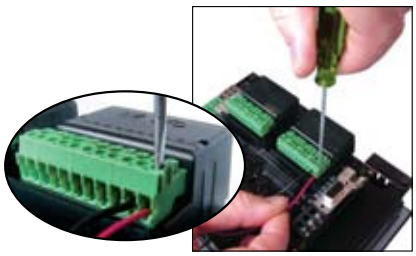
Removed from the female connector on the PLC base, by unscrewing the two captive screws on the sides of the module.



Removable Terminal Block and EZ Wiring

Wiring EZI/O Modules

Simply insert the wire and screw to tighten.



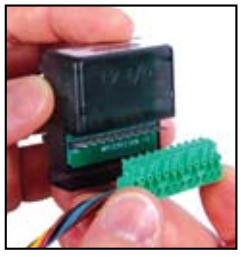
Removing Terminal Blocks

As EZI/O was built to withstand industrial environments, terminal blocks have a very snug fit on the module. Slip the edge of the screw-driver under the terminal block and lift to pop off.



Inserting Terminal Blocks

Eliminate rewiring your terminal block anytime you need to swap out a module.



Number of Wires Allowed in Each Terminal	
1	14 AWG
2	18 AWG
4	22 AWG

Wiring Capabilities

UL rated at 300 volts, 10 amps 14 AWG

Screwdriver Required

EZI/O terminal blocks require a 2.5mm blade screwdriver. You can purchase these screwdrivers from us at a price of $5.00 under part # EZIO-SCDRV for a pack of two.

Wiring Duct

EZI/O modules are equipped with wiring trays for proper routing of wires.



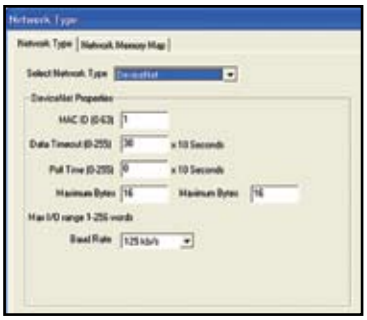
DeviceNet and Profibus Option Cards

DeviceNet

EZRIO-Devicenet option card can be installed on the back side of EZRIO's motherboard as described fully in the user manual. This option card ships with a standard 5 pin DeviceNet connector as shown to the right.

This option card allows EZRIO to become a slave node on a DeviceNet network. 256 bytes of data can be exchanged between the DeviceNet master and EZRIO in a predefined group to master/slave communication mode..





Network Size	Up to 64 Nodes
Network Length	Selectable end-to-end network distance varies with speed. 125 Kbps 500 m (1,640 ft) 250 Kbps 250 m (820 ft) 500 Kbps 100 m (328 ft)
Data Packets	0-128 words produced and consumed
System Features	Selectable end-to-end network distance varies with speed.

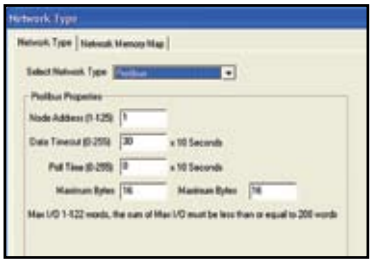
Type	Description of Operation
Polled	EZRIO DeviceNet communications card when configured for polled I/O will allow "output" data to be received from a master controller in the sequence pre-determined by a master controller. The polling rate of a network depends on the total number of nodes present on a network, baud rate, size of messages exchanged on the network, and the internal settings (timing) of a master controller. Polled DeviceNet I/O data can either be unicast or multicast.

Profibus

EZRIO-Profibus option card can be installed on the back side of EZRIO's motherboard as described fully in the user manual. This gives EZRIO the ability to link with the Profibus master controller. This communication interface provides the ability to transfer 244 bytes of data between a Profibus master and EZRIO. The Profibus communication interface has an auto-detect feature for the baud rate of the Profibus network.

The option card has a Profibus approved standard 9-pin D-sub female connector. You can plug any Profibus certified 9-pin male D-sub connector, such as ERNI 103658 or 103659, into this option card. Recommended cables are Belden 3079A or Siemens 6XV1 830 0AH10. Maximum network length depends on the frequency at which your Profibus network is operating. The EZRIO-Profibus option card can operate from 9.6 Kbps to 12Mbps as selected through the EZRIO programming software.





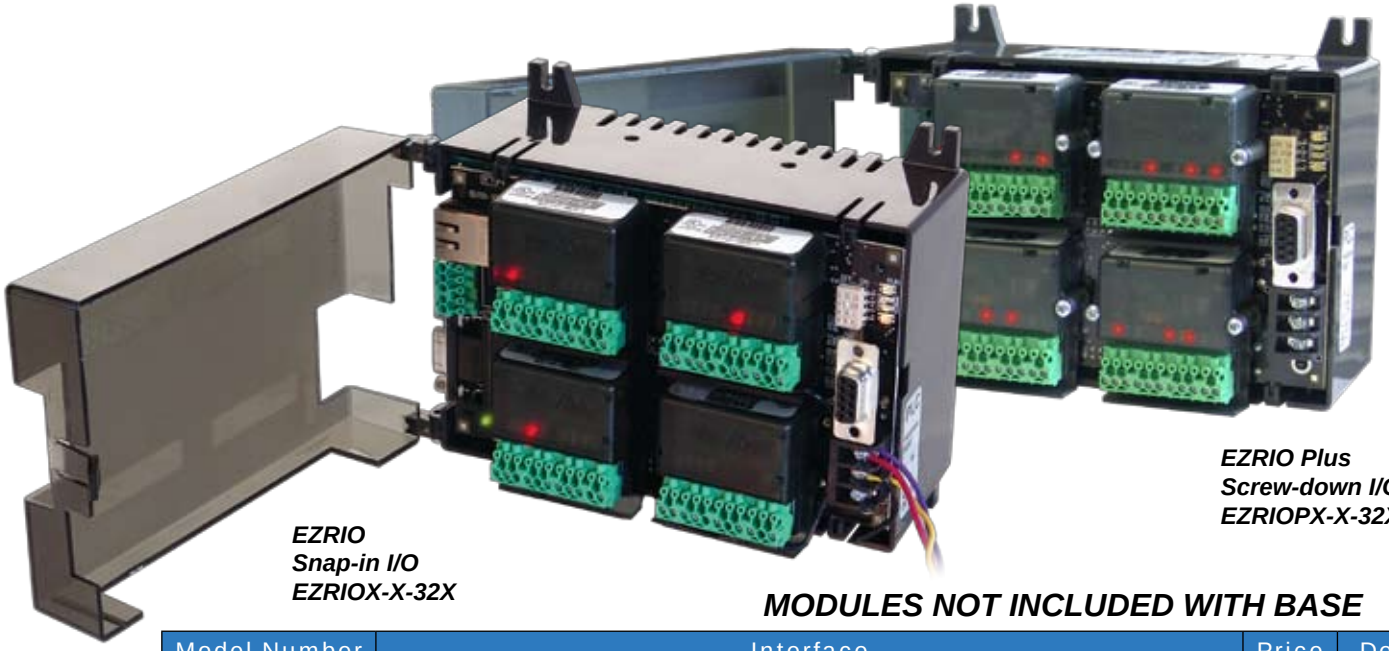
EZRIO Accessories

Part Number	Description	Price
EZRIO-EDIT	EZRIO Programming Software	$49
EZRIO-M	Hardware User Manual for EZRIO CPU and Base	$30
EZIO-M	Hardware User Manual for EZI/O Modules	$25
EZRIO-CM	Hardware User Manual for DeviceNet, Profibus and Ethernet options	$25
EZRIO-BAT	EZRIO Replacement Battery	$20
EZP-PGMCBL	Programming Cable	$20
EZIO-DUMMY	Dummy Module for Open Slots	$5
EZIO-TERM11	11 Pin Removable 3.5mm Phoenix Terminal Block	$5
EZRIO-TERM5	5 Pin Removable 3.5mm Phoenix Terminal Block	$4
EZRIO-DNTERM5	DeviceNet 5 Pin Field Terminal Block	$8

EZRIO Selection Guide and Specifications

EZRIO Model Specifications								
Part Number	Snap-in I/O Module base EZRIO-A-32 - Standard $129 EZRIO-A-32E - Ethernet $228 EZRIO-D-32 - Standard $111 EZRIO-D-32E - Ethernet $210 Screw-down I/O Module base EZRIOP-A-32 - Standard $159 EZRIOP-A-32E - Ethernet $259 EZRIOP-D-32 - Standard $149 EZRIOP-D-32E - Ethernet $249		Snap-in I/O Module base EZRIO-A-48 - Standard $168 EZRIO-A-48E - Ethernet $267 EZRIO-D-48 - Standard $150 EZRIO-D-48E - Ethernet $249 Screw-down I/O Module base EZRIOP-A-48 - Standard $225 EZRIOP-A-48E - Ethernet $325 EZRIOP-D-48 - Standard $199 EZRIOP-D-48E - Ethernet $299		Snap-in I/O Module base EZRIO-A-64 - Standard $188 EZRIO-A-64E - Ethernet $287 EZRIO-D-64 - Standard $170 EZRIO-D-64E - Ethernet $269 Screw-down I/O Module base EZRIOP-A-64 - Standard $249 EZRIOP-A-64E - Ethernet $349 EZRIOP-D-64 - Standard $225 EZRIOP-D-64E - Ethernet $325		Snap-in I/O Module base EZRIO-A-96 - Standard $219 EZRIO-A-96E - Ethernet $318 EZRIO-D-96 - Standard $190 EZRIO-D-96E - Ethernet $289 Screw-down I/O Module base EZRIOP-A-96 - Standard $289 EZRIOP-A-96E - Ethernet $389 EZRIOP-D-96 - Standard $259 EZRIOP-D-96E - Ethernet $359	
								
Specifications	**EZRIO models with "E" suffix are built with 10/100 Base-T Ethernet with a standard RJ45 connector**							
	4 Slot EZRIO AC Powered	4 Slot EZRIO DC Powered	6 Slot EZRIO AC Powered	6 Slot EZRIO DC Powered	8 Slot EZRIO AC Powered	8 Slot EZRIO DC Powered	12 Slot EZRIO AC Powered	12 Slot EZRIO DC Powered
Input Voltage Range	110 VAC (95-125VAC)	24VDC (20-28VDC)	110 VAC (95-125VAC)	24VDC (20-28VDC)	110 VAC (95-125VAC)	24VDC (20-28VDC)	110 VAC (95-125VAC)	24VDC (20-28VDC)
Maximum I/O Capacity	4 Slot Base (32I/O Max)		6 Slot Base (48I/O Max)		8 Slot Base (64I/O Max)		12 Slot Base (96I/O Max)	
Power Supply Capacity	3.3V @ 1 Amp							
CPU & Support Electronics Power	300mA							
I/O Module Power (typical)	25mA							
***DeviceNet/Profibus** Interface Power*	DeviceNet 50mA Profibus 100mA							
Maximum Power Consumption	10 watts		11 watts		12 watts		15 watts	
CPU Processor	32 Bit, 40 MHz RISC Processor							
Memory Available	64 KB (Ladder)							
Total # of Registers	8192 16Bit							
Typical Scan Time	3ms (1K Boolean)							
Real Time Clock/ Calendar	Built-in							
Built-In Battery Backup	Yes, Lithium coin cell battery with 5 year life expectancy, with a low battery indicator							
LED Indicators	Input Power, CPU Status (Run, Program & Run/Program) , Low Battery and RS232 Programming Port active indicators							
I/O Supported	EZI/O Snap-in modules with status LEDs and Removable Terminal Block DC / AC / Analog / Relay / Thermocouple / High Speed Counter / DeviceNet / Profibus							
Operating Temperature	-10C to 60C							
Storage Temperature	-20C to 70C							
Humidity	10-95% Non-Condensing							
Electrical Noise	Nema ICS 2-230 Showering arc; ANSI C37.90a SWC; Level C Chattering Relay Test (pending)							
Agency Approval	UL, CUL, CE (pending)							
Withstand Voltage	1000VDC (1 minute) between power supply input terminal and protective ground)							
Insulation Resistance	Over 20M Ohm between power supply input and terminal and protective ground							
Vibration	5 to 55Hz 2G's for 2 hours in X,Y,and Z axis							
Shock	10G for under 12ms in the X,Y, and Z axis							
Protocols Supported	ASCII In/Out on RS422/485 port; EZ Protocol on Ethernet and RS232 port DeviceNet Slave option card (EZRIO-DeviceNet), and Profibus Slave option card (EZRIO-Profibus)							
Communication Ports	Standard Model: Port 1: RS232 (Programming and HMI Port Only with EZ Protocol) Port 2: RS422 (1.2K, 2.4K, 4.8K, 9.6K, 19.2K, and 38.4K Baud Rates supported) ASCII In/Out							
	Ethernet Model: Port 1: RS232 (Programming and HMI Port Only with EZ Protocol) Port 2: RS422 (1.2K, 2.4K, 4.8K, 9.6K, 19.2K, and 38.4K Baud Rates supported) ASCII In/Out Port 3: Ethernet TCP/IP with EZ Protocol for programming or interface to an HMI							
External Dimensions	5.75" x 4.868" x 3.124" (146.05 x 123.65 x 79.356mm)		8.35" x 4.868" x 3.124" (212.09 x 123.65 x 79.356mm)		9.21" x 5.818" x 3.124" (233.93 x 147.78 x 79.356mm)		14.908" x 5.173" x 3.124" (378.65 x 131.4 x 79.356mm)	

EZRIO™ EZRIO-X-32 Specifications

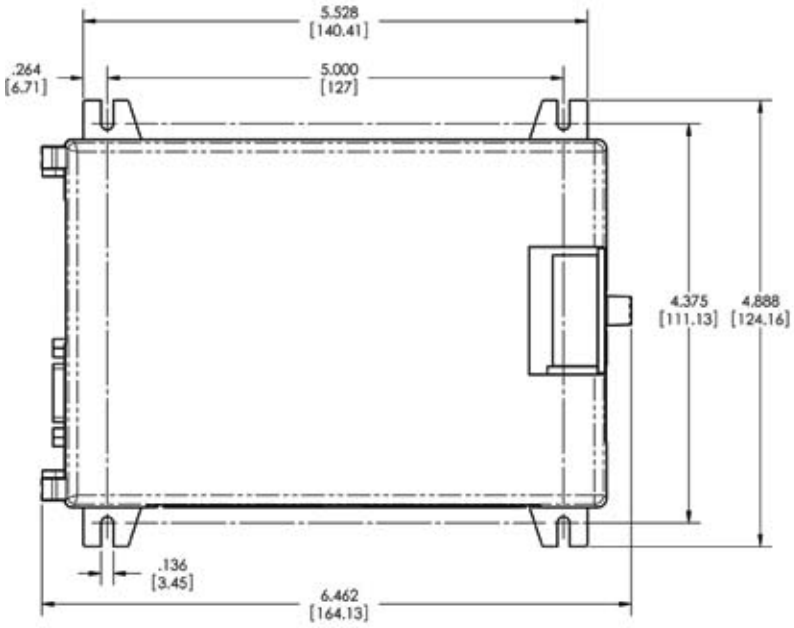


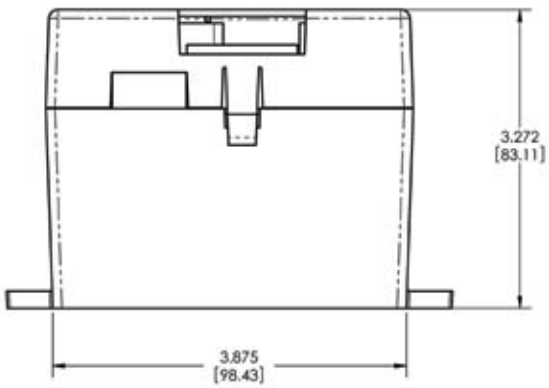
EZRIO
Snap-in I/O
EZRIOX-X-32X

EZRIO Plus
Screw-down I/O
EZRIOPX-X-32X

MODULES NOT INCLUDED WITH BASE

Model Number	Interface	Price	Del.
EZRIO-A-32 ***EZRIOP-A-32***	**AC Model – 32 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$129 $159	STK
EZRIO-A-32E ***EZRIOP-A-32E***	**AC Model – 32 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$228 $259	3DAY
EZRIO-D-32 ***EZRIOP-D-32***	**DC Power – 32 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$111 $149	STK
EZRIO-D-32E ***EZRIOP-D-32E***	**DC Power – 32 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$111 $249	3DAY





EZRIO™ EZRIO-X-48 Specifications



EZRIO
Snap-in I/O
EZRIOX-X-48X

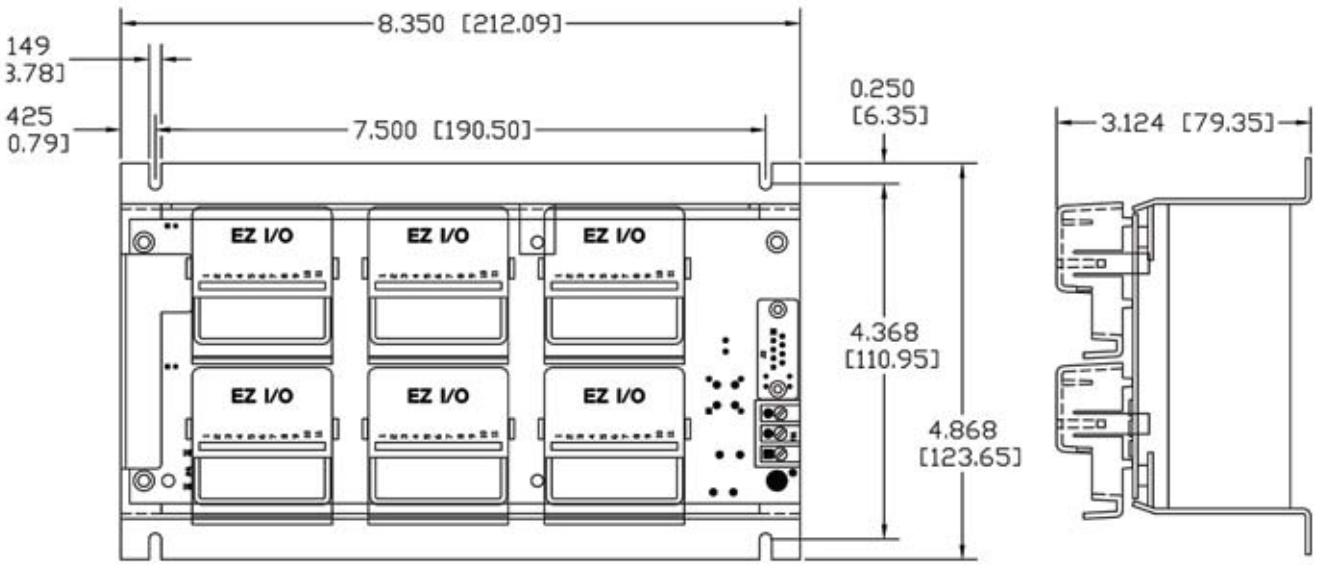


EZRIO Plus
Screw-down I/O
EZRIOP-X-48X

MODULES NOT INCLUDED WITH BASE

Model Number	Interface	Price	Del.
EZRIO-A-48 ***EZRIOP-A-48***	**AC Model – 48 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$168 $225	STK
EZRIO-A-48E ***EZRIOP-A-48E***	**AC Model – 48 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$267 $325	3DAY
EZRIO-D-48 ***EZRIOP-D-48***	**DC Power – 48 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$150 $199	STK
EZRIO-D-48E ***EZRIOP-D-48E***	**DC Power – 48 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$249 $299	3DAY

No limitation on I/O module location except:
Analog input and output combination module can be configured only in the first 4 slots



EZRIO-X-64 Specifications



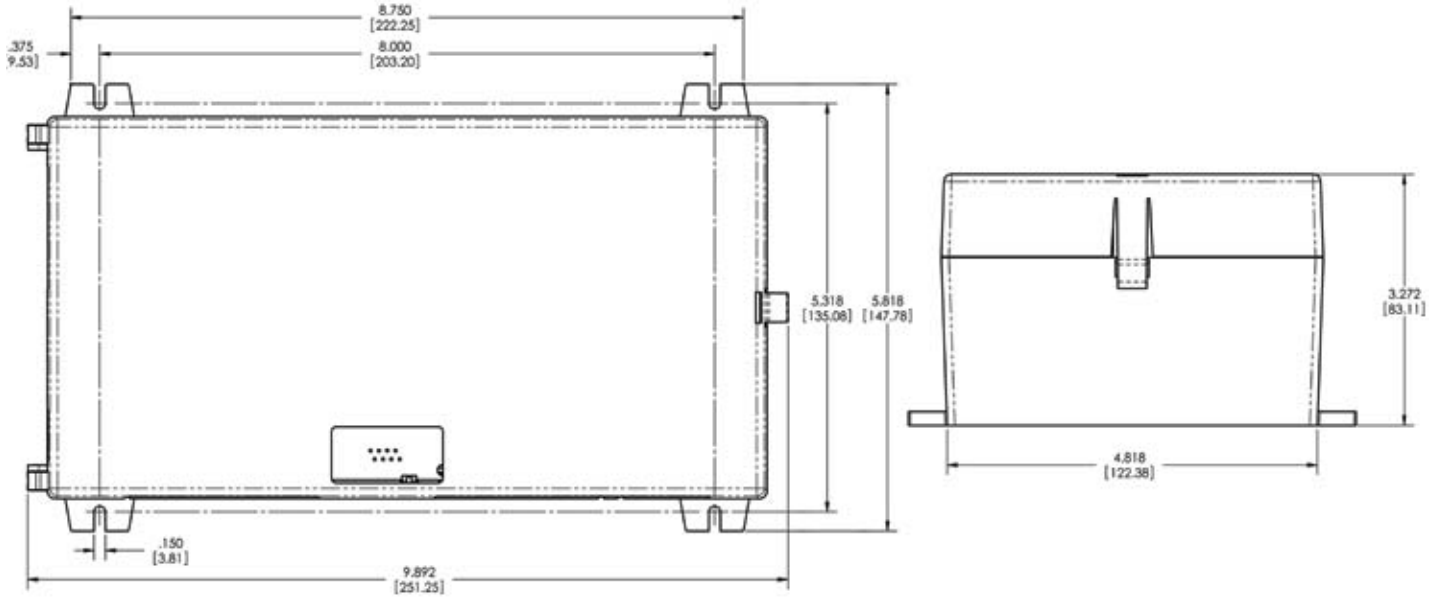
EZRIO
Snap-in I/O
EZRIOX-X-64X

EZRIO Plus
Screw-down I/O
EZRIOP-X-64X

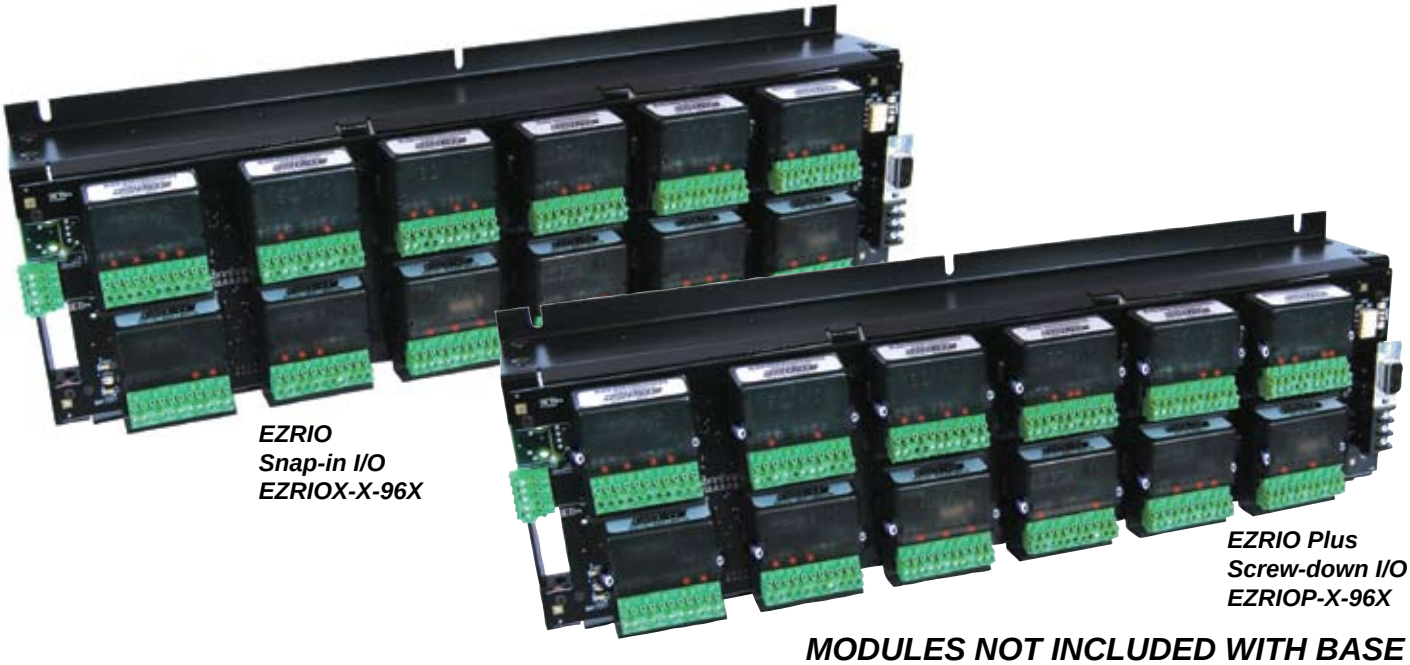
MODULES NOT INCLUDED WITH BASE

Model Number	Interface	Price	Del.
EZRIO-A-64 ***EZRIOP-A-64***	**AC Model – 64 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$188 $249	STK
EZRIO-A-64E ***EZRIOP-A-64E***	**AC Model – 64 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$287 $349	3DAY
EZRIO-D-64 ***EZRIOP-D-64***	**DC Power – 64 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$170 $225	STK
EZRIO-D-64E ***EZRIOP-D-64E***	**DC Power – 64 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$269 $325	3DAY

No limitation on I/O module location except:
Analog input and output combination module can be configured only in the first 4 slots



EZRIO™ EZRIO-X-96 Specifications



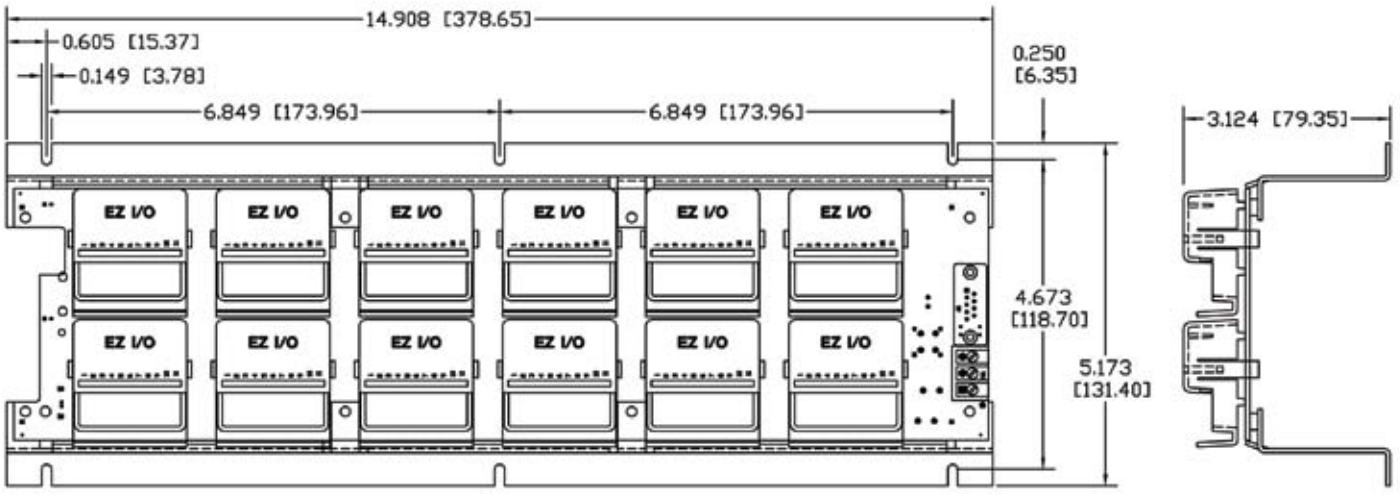
EZRIO
Snap-in I/O
EZRIOX-X-96X

EZRIO Plus
Screw-down I/O
EZRIOP-X-96X

MODULES NOT INCLUDED WITH BASE

Model Number	Interface	Price	Del.
EZRIO-A-96 ***EZRIOP-A-96***	**AC Model – 96 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$219 $289	3DAY
EZRIO-A-96E ***EZRIOP-A-96E***	**AC Model – 96 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$318 $389	3DAY
EZRIO-D-96 ***EZRIOP-D-96***	**DC Power – 96 I/O Base** comes with RS232 port 1 and RS422/485 port 2, and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$190 $259	3DAY
EZRIO-D-96E ***EZRIOP-D-96E***	**DC Power – 96 I/O Enhanced Ethernet Base** comes with RS232 port 1, RS422/485 port 2, Ethernet port 3 and a Male connector for plugging in DeviceNet or Profibus option cards. EZRIO has snap-in I/O where as EZRIOP has screw-down I/O.	$289 $359	3DAY

No limitation on I/O module location except:
1) Analog input and output combination module can be configured only in the first 4 slots
2) Analog I/O modules can be configured only in the first 10 slots



EZ Series™ TextPLC™

One-Piece Automaion Controller for a Small machine



THE MOST SENSIBLE TEXTPANEL WITH PLC

Innovate'n'Save™

EZSeries™ TextPLC™

The Most SENSIBLE One-Piece Automation Controller for a Small Machine

What is EZSeries TextPLC?

EZSeries TextPLC is the most powerful combination of a PLC and an Operator Interface in a very compact package. It utilizes EZPLC's base and thus capable of all the features present in our EZPLC and uses our 'mix-match' modular EZI/O to deliver a truly compact control.

What does it have?

- Choice of five EZSeries Text Operator Interfaces
- Up to 32 I/O PLC with EZ-220/EZ-420/EZ-220V
- Up to 48 I/O PLC with EZ-220P/EZ-220PV
- Heavy duty mounting gasket
- PLC message indicator LED
- Extremely flexible 8 point I/O modules
- 64K PLC Program memory
- Extremely fast scan time: 3ms for 1k
- Powerful Ladder Logic Instruction Set
- One extra RS422/485 Comm. port
- Supports ASCII In/Out
- Built in Real Time clock/calendar
- Extremely cost effective Ethernet, Devicenet and Profibus options
- Extremely cost effective Analog I/O
- 100 KHz counter module
- Interrupt Input module
- Save as much as 35% on panel space

Where does it make sense?

EZSeries TextPLC can be used to configure a small control system that require a Text type display. It eliminates the need to buy and install a PLC and Operator Interface separately and thus reduces the electrical panel space, makes the control system extremely compact and cost effective. With EZSeries TextPLC starting at $360 for a 32 Digital I/O system (16 Dig In/16 Dig Out), it is built to compete in the market of Embedded controllers without the hassle of "C" level programming or proprietary microprocessor boards. EZSeries TextPLC uses EZI/O modules for I/O (starting at $22 for 8 Digital Out!) which can be chosen from a large variety of options including Analog I/O, High Speed Counter, Relay, and AC/DC combo modules.

2 Line 20 Ch. Text Panel with 32 Digital I/O PLC and Built-in RS422/485 Com. Port



$360



DeviceNet, Profibus or Ethernet Connectivity Options

EZSeries™ TextPLC™

- Two-line x 20-character LCD message display
- PLC message indicator LED
- Five user-defined buttons and LEDs
- Scroll data entry
- Built-in menu system reduces extensive ladder logic programming
- Up to three embeded variables on each message
- 16 24 VDC Digital inputs
- 16 24 VDC, 0.5 Amps Source outputs, Short circuit proof
- Snap-in 8 point I/O modules with status LED indicators
- Real-time clock and calendar
- CPU status indicator LED
- Low battery indicator LED
- 8192 variables, 8192 registers
- 64K byte of user memory
- 3ms Scan Time
- Two separate CPUs for PLC and HMI
- RS422/485 communication port built-in
- Optional DeviceNet or Profibus slave port
- Powerful instruction set
- Single programming port for both PLC and Panel
- Single EZSeries TextPLC editor for only $49 with common tag database read
- 7.418" L x 5" W x 3.25" D for the complete package

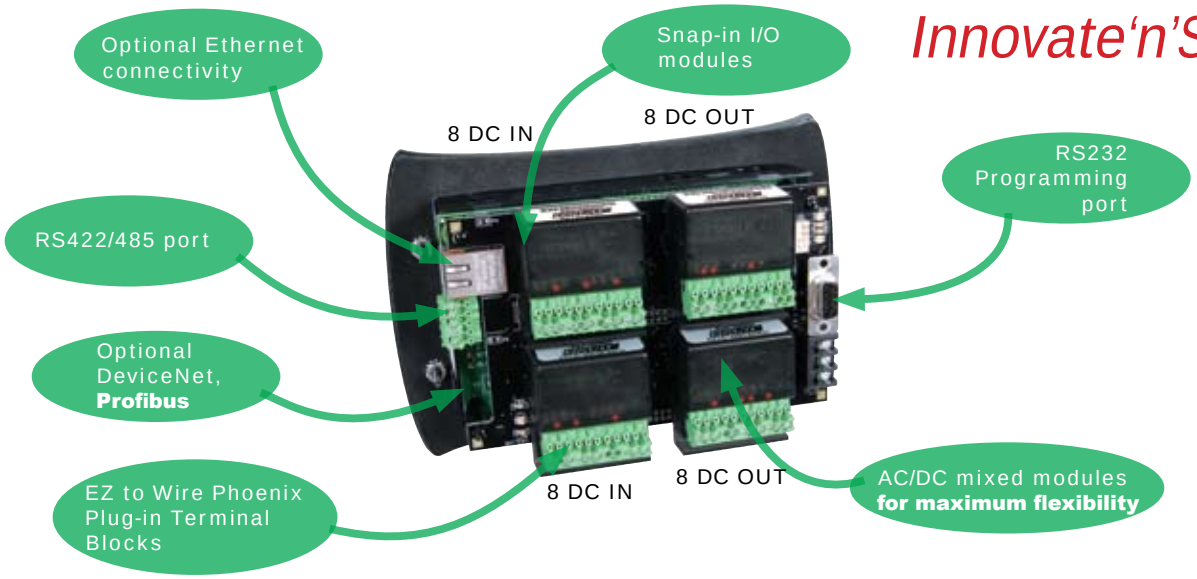
Look at what you get for $360...



$49 SOFTWARE

NO COURSE EZ SOFTWARE REQUIRED





Innovate'n'Save™

EZSeries™ TextPLC™

.. And for $537 ...

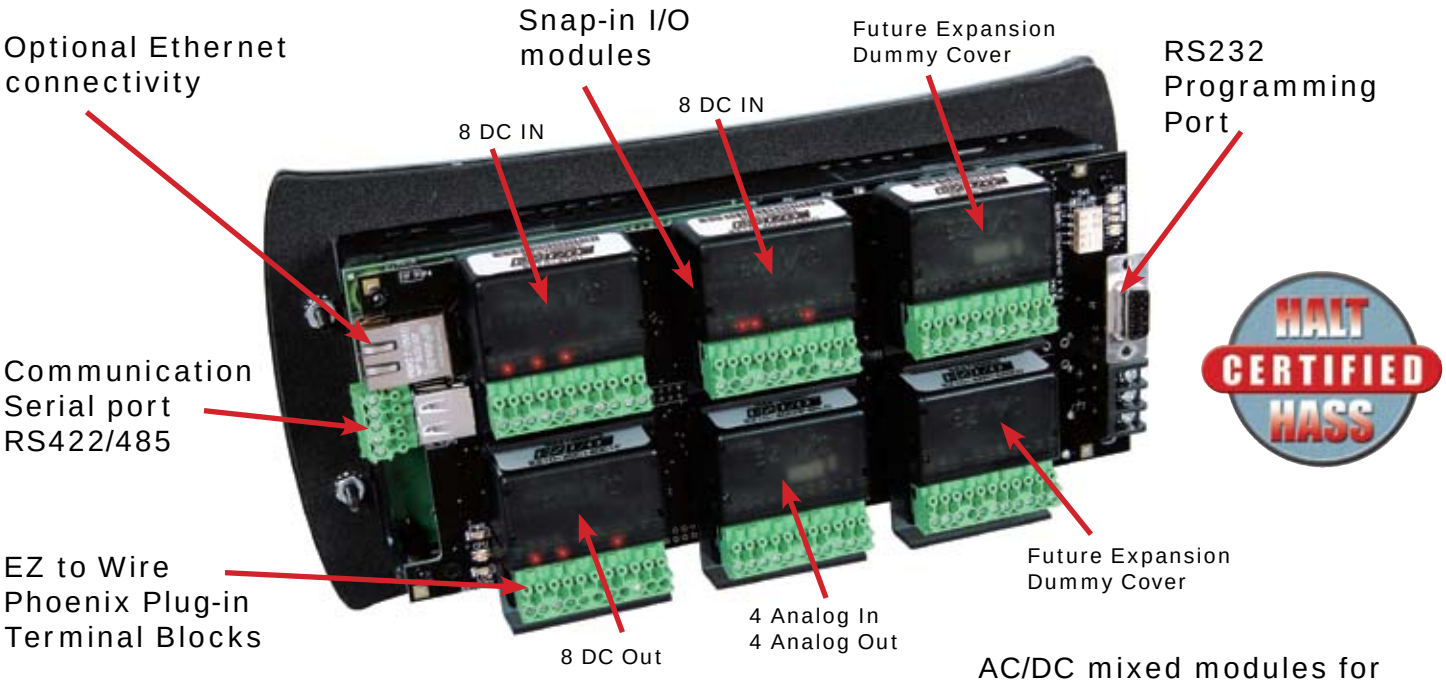
24 Discrete and 8 Analog I/O Built-in

- Two-line x 20-character LCD message display
- PLC message indicator LED
- Numeric keypad
- Five user-defined buttons and LEDs
- Scroll data entry
- Three tri-color LED annunciators
- Built-in menu system reduces extensive ladder logic programming
- Up to three embedded variables on each message
- (16) 24 VDC Digital inputs sink or source field selectable
- (8) 24 VDC, 0.5 Amps Source outputs, Short circuit proof
- (4) 12 bit Analog In
- (4) 12 bit Analog Out
- Up to 6 Snap-in 8 point I/O modules with status LED indicators, for a total of 48 I/O
- 3.5 mm Phoenix Removable terminal blocks for I/O
- Real-time clock and calendar
- CPU status indicator LED
- Low battery indicator LED
- Three PLC states: Run, Program, Run/Program with LED indicators
- 8192 variables, 8192 registers
- 64K byte of user memory
- 3ms Scan Time



$49 SOFTWARE

- Two separate CPUs for PLC and HMI
- RS422/485 communication port built-in
- Optional DeviceNet or Profibus Slave port
- Powerful instruction set
- Single programming port for both PLC and Panel
- Single EZSeries TextPLC editor for only $49 with common tag database read
- 10” L x 5” W x 3.25” D for the complete package



HALT CERTIFIED HASS

AC/DC mixed modules for **maximum flexibility**

The Operator Interface is Extremely User Friendly



With PLC Performance You Will Find Only in PLCs Costing Thousands More!

8192 Registers
8192 Variables

64K
Available
for
Ladder &
Memory

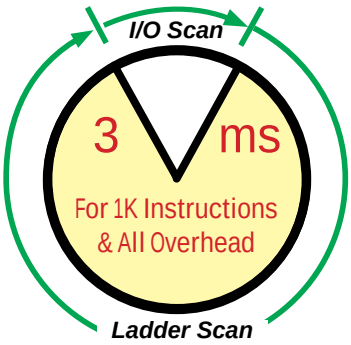
64k Byte User Memory

Most Micro PLCs have only a limited 8-16k memory. But not this souped up PLC! Some of the things you can do with this 64k byte memory:

- Store 2000 Messages
- Store 500 20 Variable Recipes
- Collect 10,000 Four Variable Data Points

32 Bit, 40 MHz RISC Processor Dedicated to PLC Processing Only, with a Separate Processor for HMI

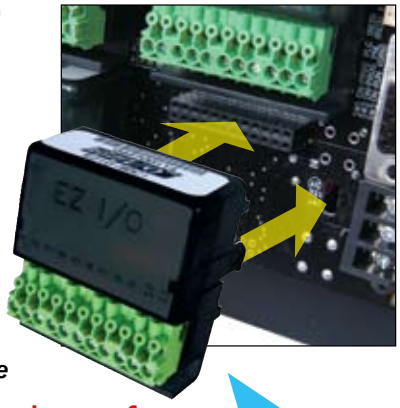
The EZSeries TextPLC has two processors, one for handling the PLC and its I/O, and another co-processor for handling the HMI functions. Even though the two processors cost more, we wanted to make sure that you have one of the fastest PLCs on your machine. This $348 Text Panel PLC rivals scantime specifications of the fastest full-blown PLCs.



EZ Series™ TextPLC™ We Looked At Every Detail! *Innovate'n'Save™*

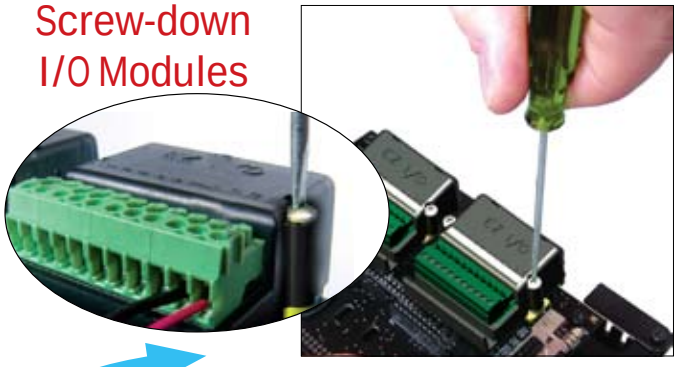
Snap-in I/O Modules





Back side of EZI/O module

Screw-down I/O Modules

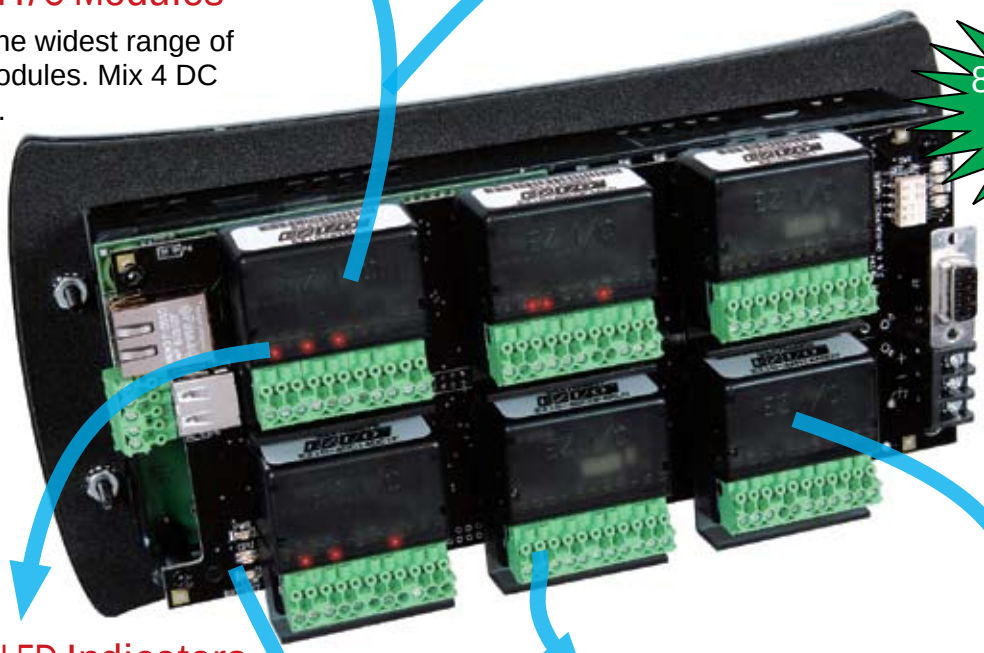


4 In/4 Out Wide Variety of Mix-n-Match I/O Modules

TextPLC offers the widest range of 4 In/4 Out I/O modules. Mix 4 DC In with 4 AC Out.

AC/DC Mixed Modules for **Highest Flexibility**

8 Outputs for $22



HALT CERTIFIED HASS

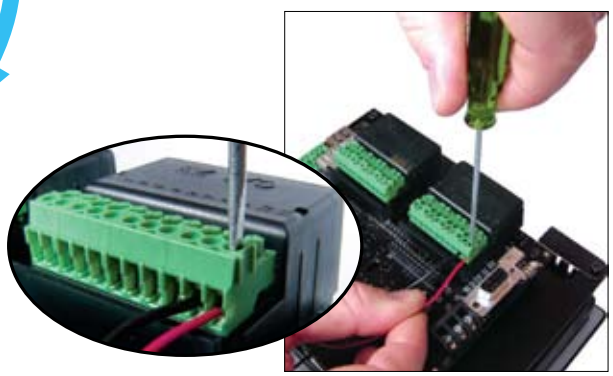
I/O Status LED Indicators



CPU Status Indicator LEDs



EZ to Wire Phoenix Plug-in Terminal Blocks



0.5 Amp Short Circuit Proof DC Outputs

This 2x2x1" ultra compact module has 8 DC Outputs rated at 0.5 Amp each that are short circuit proof!

Say "Goodbye" to Proprietary Microcontroller Boards!

Innovate'n'Save™

This powerful combination of Operator Interface, high performance CPU and a very SENSIBLE real world I/O system makes EZSeries TextPLC extremely competitive even when compared to Embedded Controllers or proprietary microcontroller boards.

Many OEMs in the past designed their own microprocessor boards to achieve a low cost point for their high volume, low end machines. The proprietary software is hard to maintain costing the OEM major amounts of money to deal with obsolete parts or make any change. The EZSeries TextPLC has achieved an incredible price point for CPU, I/O and network connectivity.



Proprietary Microcontroller **boards and** custom I/O

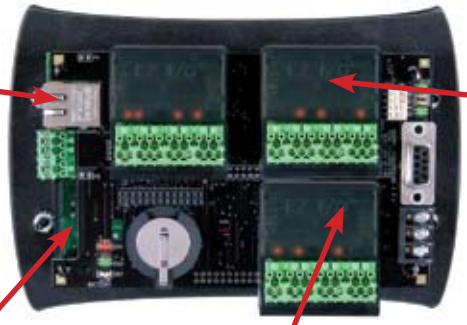


With the EZSeries TextPLC, the 40MHz 32 bit RISC processor CPU with 64KB of memory, battery back-up, and a real time calendar costs less than $100.00 even in single unit quantities!

Real world I/O for 0.5 Amp short circuit proof DC outputs costs less than $2.50 per point. You can add DeviceNet for only $79.00.

You get the picture!

Standard Off the Shelf EZSeries TextPLC





$99 Ethernet

$109 **4 12 bit analog input 4 12 bit analog output**

$79



$139 DeviceNet or **Profibus** option



8 0.5 amp DC Outputs, Short circuit proof

$22

HALT CERTIFIED HASS

30 DAY GUARANTEE MONEY BACK

You get a great Price even for a single unit purchase, saving you thousands of dollars in development costs.

Separate CPU and circuit board for HMI and PLC.

The EZSeries TextPLC uses two independent circuits and PCBs for HMI and PLC functions eliminating the concern for PLC crash in case of a faulty Text panel. Even the power supply for both functions is separate. So even if someone punches a screwdriver through the keypad, the PLC control will continue to run.

EZSeries™ TextPLC™ Let's Compare to a C-More Micro and DL06

32 Digital I/O with Operator Interface - 16 Digital In, 16 Digital Out, 24 Volt DC Power

SAVES Panel Space & Cost By at Least 35% Over DL06



B080804SC
D0808
8x8x4 NEMA 12
Control Enclosure

EZSeries TextPLC



$360

$429 with software

EZSeries TextPLC System		
Price	Model	Description
$272	EZ-220-PLC	EZText w/Built-in EZPLC (EZSeries TextPLC)
$22	EZIO-8DCI	EZI/O Analog In
$22	EZIO-8DCI	EZI/O Analog In
$22	EZIO-8DCOP	EZI/O Analog Out
$22	EZIO-8DCOP	EZI/O Analog Out
Total $360		
EZTEXT PLC with Software and Cable		
$20	EZP-PGMCBL	Programming Cable for EZSeries TextPLC
$49	EZ-TEXTPLC-EDIT	Programming Software for EXTEXTPLC
Total $429		



B161406SC
P1614
16x14x6 NEMA 12
Control Enclosure
for PLC and other
controls

DL06



$487.25

$730.25 with software

DL06 System		
Price	Model	Description
$199	DO-06DD2-D	DL06 (20 DC In/16 DC Out, 12/24VDC)
$139	EZ1-S3ML-N	C-More Micro Graphic Panel, Non-Touchscreen
$59	EA-MG-BZ1	8 Button Keypad Bezel
$19	DV-1000CBL	Communication Cable
$41.25	B161406SC	Min. Additional Enclosure Cost difference
$30		Min. Additional Labor Cost to Install DL06
Total $487.25		
DL06 and EZText with Software and Cable		
$30	D2-DSCBL	PC Programming Cable for DL06
$149	PC-PGM-BRICK	DirectSOFT32 for Windows PC
$25	EA-MG-PGMSW	C-More Micro Graphic Panel Software
$39	EA-MG-PGMCBL	Programming Cable
Total $730.25		

EZSeries™ TextPLC™ Let's Compare to a PanelView and MicroLogix

32 Digital I/O with Operator Interface - 16 Digital In, 16 Digital Out

SAVES
Min 35% Panel Space and Ridiculous $$$ Over MicroLogix

B161406SC
P1614
16x14x6 NEMA 12
Control Enclosure
for PLC and other
controls



MicroLogix 1200



$1425

$2411 with software

B080804SC
D0808
8x8x4 NEMA 12
Control Enclosure



EZSeries
TextPLC

$360



$429 with software

EZSeries TextPLC System		
Price	Model	Description
$272	EZ-220-PLC	EZText w/Built-in EZPLC (EZSeries TextPLC)
$22	EZIO-8DCI	EZI/O Analog In
$22	EZIO-8DCI	EZI/O Analog In
$22	EZIO-8DCOP	EZI/O Analog Out
$22	EZIO-8DCOP	EZI/O Analog Out
Total $360		
EZTEXT PLC with Software and Cable		
$20	EZP-PGMCBL	Programming Cable for EZSeries TextPLC
$49	EZ-TEXTPLC-EDIT	Programming Software for EXTEXTPLC
Total $429		

MicroLogix 1200 Requirements		
Price	Model	Description
$649	1762-L40BXB	MicroLogix 1200 PLC with 24 DC In and 8 FET (24DC) Out
$144	1762-OB8	8 Point 24VDC output
$52	1762-RTC	Real Time Clock
$70	2711-NC21	Panel to PLC Communication Cable
$510	2711-K3A5L1	PanelView 300 Monochrome Terminals RS-232 (DH-485) Communication Port
Total $1425		
MicroLogix and PanelView with Software and Cable		
$514	9324-RL0100ENE	MicroLogix Programming Software (Starter Kit)
$305	2711-ND3	Programming Software for PanelView
$67	1756-CP3	MicroLogix Programming Cable
$100	2711-NC13	Panelview Programming cable
Total $2411		

We didn't even include the cost of larger enclosure and installation for this comparison!

It is Very EZ to Program an EZSeries TextPLC

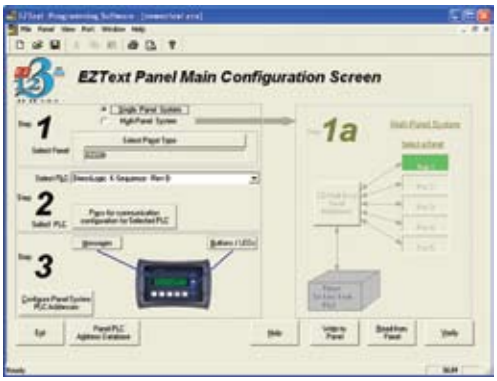
Configuration Screen

The EZSeries Textpanel programming software (EZ-TEXTEDIT) is a Windows-based program. The EZ-to-use screens and pull-down menus provide all tools you will need to select the panel type, configure the PLC communications, create text messages, etc. The EZSeries Textpanels use simple addressing and bit assignments.
Competitor text panels require extensive programming and associated ladder logic to make the pushbuttons and LEDs operable.

Select panel type from the selection screen →

Configure PLC communications →

Configure messages, pushbuttons, LEDs, etc. →



Configuring Pushbuttons and Leds



The configuration screen contains all of the information needed to configure the pushbuttons and their associated LEDs. You can configure the pushbuttons in three different ways: alternate, momentary, or alternate with PLC release option. The associated LEDs, which can also operate totally independent of the pushbutton action, can be triggered three ways: by the associated pushbutton, by the PLC, or they can be made to flash by the pushbuttons. This screen also allows the user to enter the associated PLC address. Once the address assignment has been selected, all of the pushbutton and LED fields will be populated with the associated bit assignments.

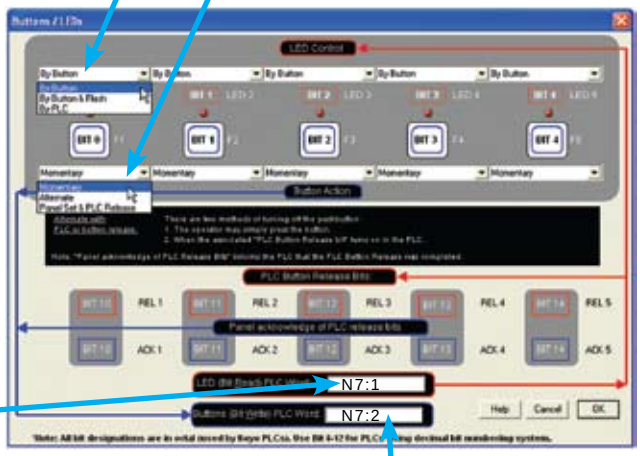
LED status PLC register

0	0	0	1	1	1	1	0	N7:1

User-defined pushbutton LED status is directly mapped from bits in a single user-defined PLC memory word.

Configure LED trigger

Configure Pushbutton action



Pushbutton status PLC register

1	0	0	1	0	0	0	0	N7:2

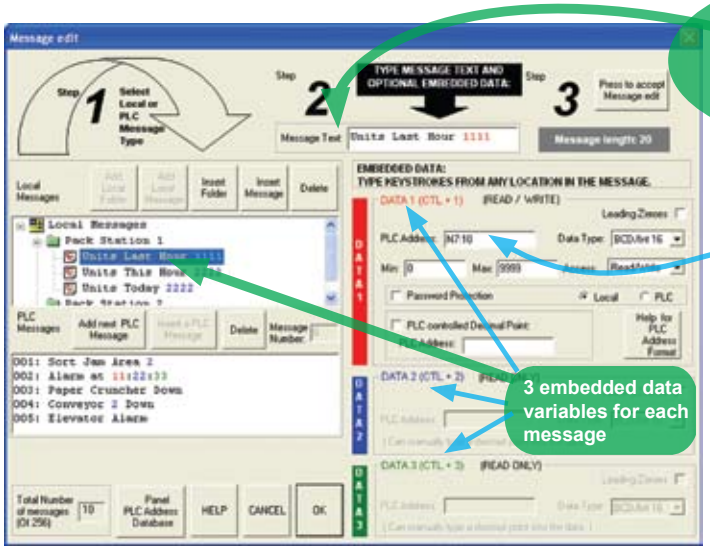
User-defined pushbutton keys are automatically written to bits in a single user-defined PLC memory word.



Stores Up To 256 Messages Triggered by the PLC or Locally

User Programmable Messages

There are two message types which can be displayed: local and PLC. Local messages are displayed on the screen unless the PLC triggers a PLC message, which overrides a local message.. When a PLC message is triggered, the PLC Message LED will also be illuminated. The PLC message LED will remain on until the user acknowledges the situation by pressing [esc] on the panel.



Programmable Message PLC Register

0	0	0	0	0	1	0	0	N7:4

"PLC type" messages are controlled by a single word memory location of a PLC

Layered messages provide more organization and detail.

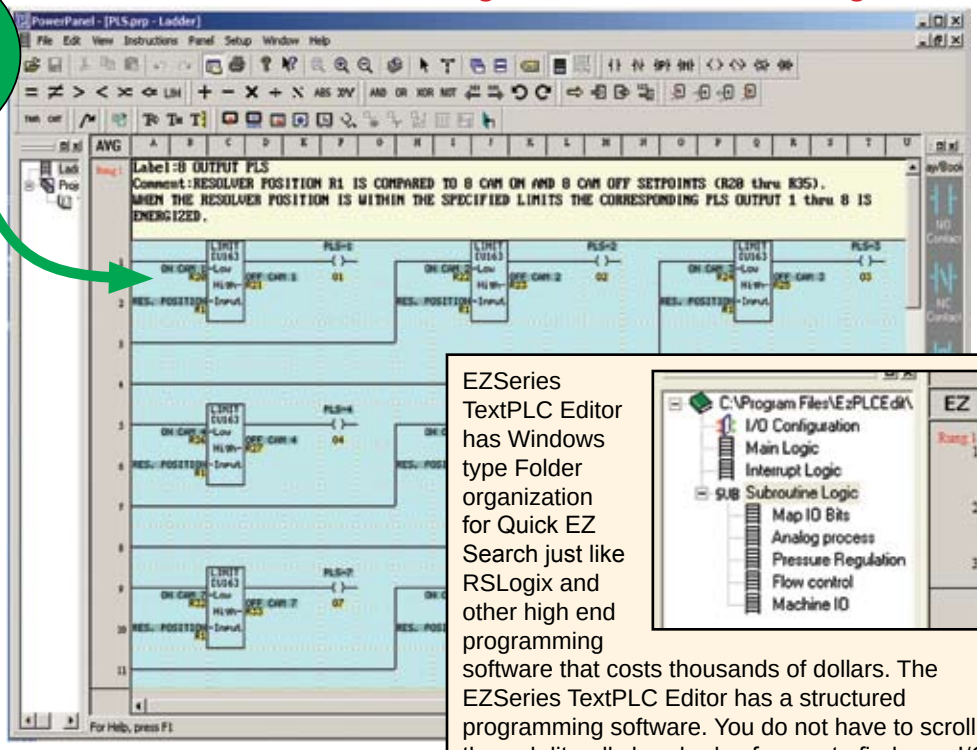
These messages are triggered by the PLC and will trigger the PLC Message LED on the front of the EZSeries Textpanel.

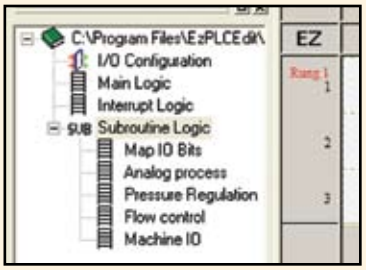
It is Very EZ to Program an EZSeries TextPLC

Free Flow Ladder Logic, Patent Pending

Just One Rung!

The concept of this patent pending Free Flow Ladder Logic is to create less restricted rungs of logic. This saves the user rung space and valuable scan time. On the right you will see an example of Free Flow Ladder-Logic. As you can see the Free Flow logic allows logic to be placed and connected anywhere in the rung rather than creating a new rung. This allows the user to spend more time on other parts of the machine development and let the CPU do more of the work of solving the logic.





EZSeries TextPLC Editor has Windows type Folder organization for Quick EZ Search just like RSLogix and other high end programming software that costs thousands of dollars. The EZSeries TextPLC Editor has a structured programming software. You do not have to scroll through literally hundreds of rungs to find your I/O mapping, subroutines or interrupts.

Advanced Instructions:

32-bit floating point calculations

The EZPLC supports 32-bit floating point mathematical and logical operations. The data options allow you to use signed or unsigned integer data as well as floating point data type.

Data Conversion

This instruction is meant to make ladder programming EZ and flexible. You can copy the data in one register, convert its data type and save it into another register without altering the 'source' register. The data can be converted from binary to BCD or grey code or vice versa.

Move Block

This instruction adds convenience to handling data inside the ladder program. You can move blocks of memory. All you need to specify is starting point of your source address, number of data elements to move and starting point of destination memory address. Along with Move Block, Fill Block and Move table of Constants also make life of a programmer much simpler.

String

These instructions operate on ASCII string data type. You can Move string data between registers, base rung power flow upon string comparison and compute string length to store the length value in a different register.

Subroutines

Capability to use subroutines is a huge plus in EZPLC programming. For large and complex programs, user can define many subroutines and use them in the main ladder program. These subroutines can be called from the main logic. Return instruction allows user to return to the main logic at any step.

Drum Sequencer

This is a time or event based sequencer that updates up to 16 outputs per step, up to 16 steps. Time base of each count is user defined and each step has its own counter. User can define an event to trigger the count. The rung power flow is allowed after completion of all the steps in a drum.

Marquee Instructions

Now you don't have to spend days to send signals to your marquee. Send to marquee instruction allows you to communicate to the marquee via ASCII strings. A unique message number is assigned to each message in the message database. This instruction looks up the message number, corresponding to the intended message to be displayed and sends it to the marquee. User can define actions if a message number cannot be found in the database.

Interrupt Routine

This is how your EZPLC would process external events that require "instantaneous" response. User can write a separate interrupt logic routine. At the instance of an external event, the PLC would interrupt the main logic, execute this interrupt logic on a priority, and scan corresponding I/O. It would return to the main logic automatically after processing the interrupt routine.

ASCII Instructions

User can send/receive ASCII string data to/from any register in PLC to a predefined serial port. User can also define the Control address and character count of the source register. Similarly, user can send ASCII string data to a Marquee directly from the main logic.

Bit Move Instructions

Bit move instructions allow the user to move word data from a register type memory address to a bit in a discrete memory location and backward.

For detailed information, see the PLC Programming Instructions on page 8-36 in the EZPLC section.

This Almost FREE Automation Controller also **has Great Connectivity to DeviceNet, Profibus** and Ethernet TCP/IP

All EZSeries TextPLC models can be ordered with Ethernet, DeviceNet and Profibus connectivity through separate part numbers.

Ethernet TCP/IP

$99



All EZSeries TextPLC models are available with built-in high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows EZSeries TextPLC to reside on a 10 Mbps TCP/IP network (10Base T Ethernet) via an RJ45 port. Use Ethernet models for easy Ethernet programming with 100 meters being the maximum distance between two nodes. For distances greater then 100 meters repeaters can be used to extend the distance between any two nodes.

DeviceNet Slave Module

$79



EZSeries TextPLC models when ordered with built-in DeviceNet Slave communication interface provide DeviceNet connectivity in addition to RS232 and RS422/485 communication ports. DeviceNet communication interface for EZSeries TextPLC provides a digital, multi-drop network that can be used for communicating with DeviceNet enabled controllers and I/O devices. On DeviceNet network every device acts as a node and allows multiple communication hierarchies and prioritization of messages. EZSeries TextPLC with DeviceNet communication interface can be configured in a master-slave control architecture as a slave node and allows peer-peer communication. DeviceNet control system provides a single point of connection both for configuration and support for I/O as well as explicit messaging.

Profibus

$139



All EZSeries TextPLC models are available with built-in Profibus Slave communication interface in addition to RS232 and RS422/485 communication ports. This gives EZSeries TextPLC the ability to link with a Profibus Master Controller. Profibus is a vendor independent open field bus protocol standard in manufacturing automation and process control. It reduces hard-wiring costs and provides specifications for information exchanged between nodes of a Profibus network. This communication interface provides the ability to transfer data between a Profibus master and EZSeries TextPLC.The Profibus communication interface also has an auto-detect feature for the baud rate of the Profibus network.

Built-in RS422/485 Port to Communicate to External Devices such as Drives, Message Displays or Temperature Controllers



Barcode Printer



EZSeries TextPLC

AC Drive



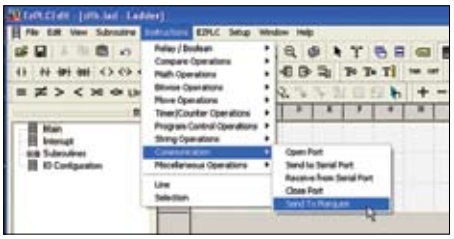




EZMarquee

RS485 Cable

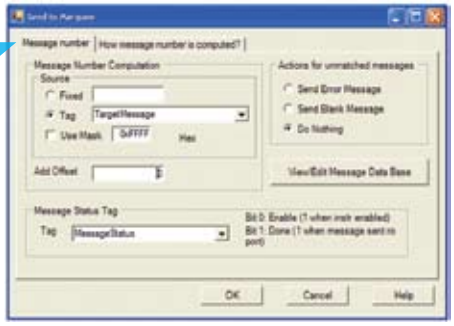
1. **Use EZSeries TextPLC's "Send to Marquee" instruction to initiate communication with EZMarquee.**



NO COURSE EZ SOFTWARE REQUIRED

2. **Configure your message's source tag and status tag.**





3. **Control your message attributes without ever having to worry about ASCII format**



Type in your message along with it's attributes like character size, color, and effects like scrolling or blinking. Preview the message to edit any changes.



EZSeries TextPLC Selection Guide and Specifications

EZText PLC Model Specifications					
EZSeries TextPLC	EZ-220-PLC (Snap-in I/O) $272 EZP-220-PLC (Screw-down I/O) $302	EZ-420-PLC (Snap-in I/O) $292 EZP-420-PLC (Screw-down I/O) $322	EZ-220P-PLC (Snap-in I/O) $342 EZP-220P-PLC (Screw-down I/O) $372	EZ-220V-PLC (Snap-in I/O) $372 EZP-220V-PLC (Screw-down I/O) $402	EZ-220PV-PLC (Snap-in I/O) $442 EZP-220PV-PLC (Screw-down I/O) $472
EZSeries TextPLC w/ Ethernet	EZ-220-PLC-E (Snap-in I/O) $371 EZP-220-PLC-E (Screw-down I/O) $401	EZ-420-PLC-E (Snap-in I/O) $391 EZP-420-PLC-E (Screw-down I/O) $421	EZ-220P-PLC-E (Snap-in I/O) $441 EZP-220P-PLC-E (Screw-down I/O) $471	EZ-220V-PLC-E (Snap-in I/O) $471 EZP-220V-PLC-E (Screw-down I/O) $501	EZ-220PV-PLC-E (Snap-in I/O) $541 EZP-220PV-PLC-E (Screw-down I/O) $571
EZSeries TextPLC w/ DeviceNet	EZ-220-PLC-D (Snap-in I/O) $351 EZP-220-PLC-D (Screw-down I/O) $381	EZ-420-PLC-D (Snap-in I/O) $371 EZP-420-PLC-D (Screw-down I/O) $401	EZ-220P-PLC-D (Snap-in I/O) $421 EZP-220P-PLC-D (Screw-down I/O) $451	EZ-220V-PLC-D (Snap-in I/O) $451 EZP-220V-PLC-D (Screw-down I/O) $481	EZ-220PV-PLC-D (Snap-in I/O) $521 EZP-220PV-PLC-D (Screw-down I/O) $551
*EZSeries TextPLC w/ **Profibus***	EZ-220-PLC-P (Snap-in I/O) $401 EZP-220-PLC-P (Screw-down I/O) $431	EZ-420-PLC-P (Snap-in I/O) $421 EZP-420-PLC-P (Screw-down I/O) $451	EZ-220P-PLC-P (Snap-in I/O) $471 EZP-220P-PLC-P (Screw-down I/O) $501	EZ-220V-PLC-P (Snap-in I/O) $501 EZP-220V-PLC-P (Screw-down I/O) $531	EZ-220PV-PLC-P (Snap-in I/O) $571 EZP-220PV-PLC-P (Screw-down I/O) $601
					
Specifications	220 EZSeries TextPLC	420 EZSeries TextPLC	220P EZSeries TextPLC	220V EZSeries TextPLC	220PV EZSeries TextPLC
Display Type	2 Line x 20 Char LCD (5.55mm)	4 Line x 20 Char LCD (4.75mm)	2 Line x 20 Char LCD with Numeric Keypad (5.55mm)	2 Line x 20 Char Vacuum Fluorescent Display (5.55mm)	2 Line x 20 Char Vacuum Fluorescent Display with Numeric Keypad (5.55mm)
Keypad Overlay	Five User Defined Pushbuttons and Four Control Pushbuttons		Numeric Keypad, five user defined pushbuttons and four control buttons	Five User Defined Pushbuttons and Four Control Pushbuttons	Numeric Keypad, five user defined pushbuttons and four control buttons
# HMI Messages	256				
LED/LCD Life	100,000 Hours				
I/O Capacity	4 Slot Base (32I/O Max)		6 Slot Base (48I/O Max)	4 Slot Base (32I/O Max)	6 Slot Base (48I/O Max)
Power Consumption	14 Watts @ 24VDC	14 Watts @ 24VDC	16.5 Watts @ 24VDC	17 Watts @ 24VDC	19.5 Watts @ 24VDC
Processors	32 Bit, 40 MHz RISC Processor (PLC), 8 Bit Processor (HMI)				
Total PLC Memory	64 KB (Ladder)				
# of PLC Registers	8192 16Bit				
PLC Typical Scan Time	3ms (1K Boolean)				
Real Time Clock/ Calendar	Built-in				
Built-In Battery Backup	Yes, Lithium coin cell battery with 5 year life expectancy, with a low battery indicator				
PLC LED Indicators	Input Power, CPU Status (Run, Program & Run/Program) Low Battery, Program PLC, Program Panel and Run LED indicators				
I/O Supported	EZIO Snap-in modules with status LEDs and Removable Terminal Block DC / AC / Analog / Relay / Thermocouple / High Speed Counter				
Electrical Noise	Nema ICS 2-230 Showering arc; ANSI C37.90a SWC; Level C Chattering Relay Test				
Withstand Voltage	1000VDC (1 minute) between power supply input terminal and protective ground)				
Insulation Resistance	Over 20M Ohm between power supply input and terminal and protective ground				
Enclosure	Nema 4, 4x (indoor)				
Operating Temperature	0C to 45C				
Storage Temperature	-20C to 60C				
Vibration	5 to 55Hz 2G's for 2 hours in X,Y,and Z axis				
Shock	10G for under 12ms in the X,Y, and Z axis				
Humidity	10-95% Non-Condensing				
Protocols Supported	ASCII In/Out; EZ Protocol, Ethernet, DeviceNet Slave, and Profibus Slave				
Built-In Serial Comm. Ports	Port 1: RS232 (Programming and HMI Port Only) Port 2: RS422 (1.2K, 2.4K, 4.8K, 9.6K, 19.2K, and 38.4K Baud Rates supported)				
Agency Approval	UL, CUL, CE (pending)				
External Dimensions	7.418" x 5" x 2.587" (188.418 x 127 x 65.711mm)	7.418" x 5" x 2.587" (188.418 x 127 x 65.711mm)	10.018" x 5" x 2.587" (254.46 x 127 x 65.71mm)	7.418" x 5" x 2.587" (188.418 x 127 x 65.711mm)	10.018" x 5" x 2.587" (254.46 x 127 x 65.71mm)
Weight	1.3 lbs	1.5 lbs	1.7 lbs	1.5 lbs	1.9 lbs

Configure Your EZSeries TextPLC

From the most Flexible EZ I/O, Select the Modules

Needed for your Applications

26 Different Mix-n-Match Plug-in I/O Modules



		Snap-in	Screw-down	Page
4 Thermocouple Input	4THI	$139	$139	9-28
High Speed Counter, 1 input/4 output	HSCM1	$99	$99	9-29
High Speed Counter, 2 input/4 output	HSCM2	$99	$99	9-29
Resistance Temperature Detector	RTD	$179	$179	9-31
Pulse Width Module	PWM	$179	$179	9-32
Program Storage Module	PRGM	$49	$59	8-16
8 pt 24V DC In	8DCI	$22	$29	9-8
8 pt 24V DC Out Source	8DCOP	$22	$29	9-9
8 pt 24V DC Out Sink	8DCON	$22	$29	9-10
8 pt 24V DC In Fast	8HSDCI	$27	$34	9-11
4 pt 24V DC In, 4 pt 24V DC Out Sink	4DCI4DCON	$22	$29	9-12
4 pt 24V DC In Standard, 4 pt 24V DC In Fast Interrupt	4DCI4DCIF	$27	$34	9-13
4 pt 24V DC In, 4 pt 24V DC Out Source	4DCI4DCOP	$22	$29	9-14
8 pt 110 AC In	8ACI	$34	$39	9-15
8 pt 110 AC Out	8ACO	$34	$39	9-16
4 pt 110 AC In, 4 pt 110 AC Out	4ACI4ACO	$34	$39	9-17
4 pt 24V DC Out Source, 4 pt 110 AC Out	4DCOP4ACO	$34	$44	9-18
4 pt 110 AC In, 4 DC Out Source	4ACI4DCOP	$34	$44	9-19
4 pt 24V DC In, 4 110 AC Out	4DCI4ACO	$34	$44	9-20
8 Analog In Voltage	8ANIV	$109	$119	9-24
8 Analog In Current	8ANIC	$109	$119	9-25
4 Analog In, 4 Analog Out Voltage	4ANI4ANOV	$109	$119	9-26
4 Analog In, 4 Analog Out Current	4ANI4ANOC	$109	$119	9-27
4 pt Relay Out	4RLO	$39	$49	9-21
4 pt 110 AC In, 4 Relay Out	4ACI4RLO	$44	$54	9-22
4 pt 24V DC In Source, 4 Relay Out	4DCIP4RLO	$44	$54	9-23

Program Storage Module

The EZIO-PRGM or EZIOP-PRGM module allows a user to back up PLC program. To back up a PLC program, user places the module in any of the slots in the PLC. Using EZSeries PLC programming software, the user then downloads the program to be backed up to the PLC and issues backup command. User is prompted to indicate all slots in the PLC base which have Backup modules. The programming software then initiates the back-up. LED indicator on the module indicates the back- up activity. Once the modules are programmed with the user-program, they can be taken out after turning the power off.

To restore the user program, a user needs to plug-in the backup module in any of the I/O slots of the plc base. On power-up, the plc will detect the backup module, and restore the user program. If the backup module does not have a valid program, the program is not restored.



EZSeries™ TextPLC™ Product Overview

Introduction

EZSeries TextPLC is the most powerful combination of a PLC and HMI in an ultra compact housing. It utilizes EZPLC's base and EZText Enhanced operator interface in one compact package and thus has all the features present in EZText Enhanced along with EZPLC and I/O modules.

Overview

EZText PLC can be used to substitute small control systems that require a Text type display and a PLC with a maximum of 48 I/O. EZText PLC is the most compact HMI/PLC combination in the industry and eliminates the need to buy a PLC and Operator Interface separately. Take advantage of EZSeries TextPLC's compact design to reduce electrical panel space by as much as 35%.

Getting Started

All you need are the following:
- EZSeries TextPLC
- 24 VDC power supply (min. 1.5A, switching)
- Programming cable
- PC
- EZSeries TextPLC Programming Software

Features:

- Choice of EZText operator Interfaces
  Up to 32 I/O PLC with EZ-220V/EZ-220/EZ-420
  Up to 48 I/O PLC with EZ-220PV/EZ-220P
- 2 or 4 line 20 character LCD display
- 2 line 20 character VFD display option
- 5 user defined pushbuttons and LEDs
- Built-in Menu system
- Scroll Data Entry or Numeric Keypad
- 256 messages with 3 embedded variables per message
- Heavy duty mounting gasket
- PLC message indicator LED
- Extremely Flexible 8 point I/O Modules
- 64K PLC Program memory
- Extremely fast scan time: 3ms for 1k
- Power Instruction Set
- Supports ASCII In/Out
- Built in real time clock/calendar
- 100 KHz counter module
- Interrupt Input modules (optional)
- CPU status indicator LED
- Low battery indicator LED
- Three PLC states: Run, Program, Run/Program with LED indicators
- 8192 variables, 8192 registers
- Single programming port for both PLC and Panel
- Single EZTEXT PLC editor for only $49 with common tag database

Easy Installation

Installing the panel is as EZ as 1-2-3. Just follow these instructions:

1. Mounting

EZSeries TextPLC Panel is a front mount unit and requires a panel cutout. Once you have a panel cutout made you can secure the EZtext PLC in place with screws or din clips. The rubber gasket will provide the seal between the panel and EZText PLC for a Nema 4,4x front. After mounting EZText PLC, insert your EZIO in the current slots and you are ready to wire and program it.

2. Wiring and Connections

After mounting all you have to do is to wire your EZSeries TextPLC I/O modules to your desired products.

3. Program your EZSeries TextPLC

Use programming cable to connect to EZText PLC from a PC and you are ready to program your unit, both for HMI and PLC.

Support

You can also find up to date information on all the products, any new features, tech support and much more on our website www.ezautomation.net. If you have any questions for which you can't find an answer, give us a call at 1-877-774-EASY (3279) and we will be glad to assist you.

Delivery Status: STK

Part Number	Description	Price
EZIO-M	Hardware User Manual for EZI/O Modules	$15
EZPLC-CM	Hardware User Manual for DeviceNet, Profibus and Ethernet options	$15
EZPLC-BAT	EZPLC Replacement Battery	$20
EZP-PGMCBL	Programming Cable	$20
EZIO-DUMMY	Dummy Module for Open Slots	$5
EZIO-TERM11	11 Pin Removable 3.5mm Phoenix Terminal Block	$5
EZPLC-TERM5	5 Pin Removable 3.5mm Phoenix Terminal Block	$4
EZ-DNTERM5	DeviceNet 5 Pin Field Terminal Block	$8
EZ-TEXT-S-GSK	Standard replacement gasket (small) for EZ-220V-PLC, EZ-220-PLC, EZ-420-PLC	$8
EZ-TEXT-L-GSK	Standard replacement gasket (large) for EZ220PV-PLC, EZ-220P-PLC	$9
EZ-BRK-2	DIN clips (pk. of 4)	$34
EZ-TEXT-STUDS	Mounting studs (pk. of 4)	$8
EZ-COMCON3	15-pin male D-sub connector with terminal blocks, for connecting RS422 network cable	$19
EZ-COMCON4	9-pin female D-sub connector with terminal blocks	$19
EZ-TEXT-CORE	EZText replacement ferrite cores	$15
EZ-TEXT-PWRTERM	EZText replacement power terminal strip	$12
EZ-TEXTPLC-M	Hardware User Manual For EZSeries TextPLCs	$15
EZ-TEXTPLC-EDIT	Windows based Programming software for all EZSeries TextPLCs. Requires Windows 95/98/NT or 2000. Manual and CD-ROM included	$49
EZTEXT-PGMCBL	Programming cable for setup and programming for all EZSeries TextPLCs. 2 m (6.56ft) RS232 cable with 15-pin D-shell male connector on one end and 9-pin D-shell female connector at the other end.	$16

Switch Settings, Status Indicators and Connections

Operation Set up

SW3	SW4	Tri-Color LED	Operation
1	0	Green	Run
0	1	Red	Program
1	1	Amber	Run/Program
0	0	Off	No Operation



RS232 Programming Port and Communication Selector

SW1	SW2	PLC LED	Panel LED	RUN LED	Connection
1	0	On	Off	Off	RS232 port to PLC
0	1	Off	On	Off	RS232 port to Panel
1	1	On	On	Off	No Connection
0	0	Off	Off	On	PLC Connected to Text Panel; RS232 port not connected



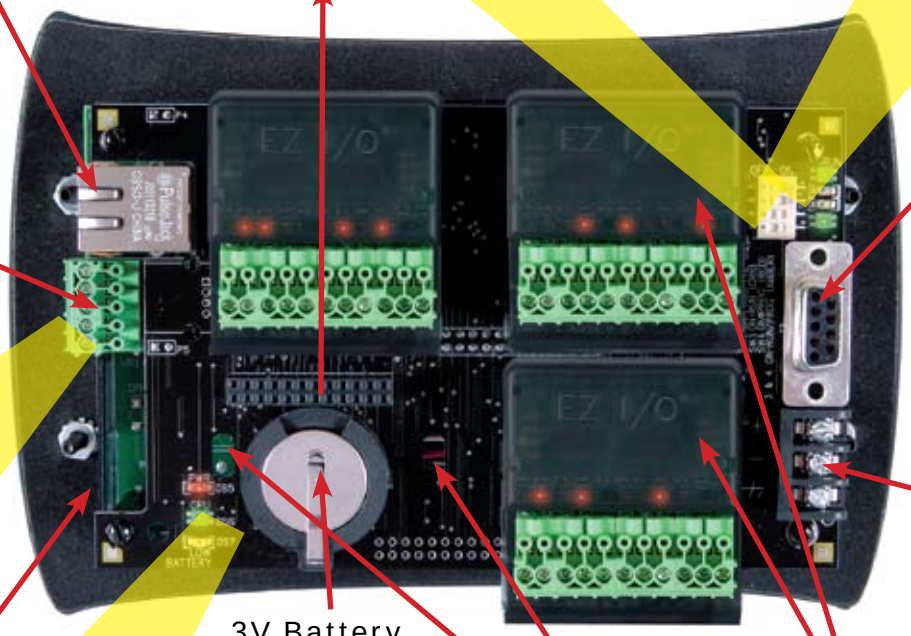
Run Mode PLC to Text Panel LED

Program PLC LED

Program Panel LED

Optional Ethernet connectivity on Enhanced model

Port for I/O Module



RS232 Programming Port

Used to program PLC or TextPanel

Pin #	Function
2	TXD
3	RXD
5	Logic GND
Rest	NC

RS422/485 ASCII Port

Used to send or receive ASCII instructions to other devices



SD-
SD+
RD+
RD-

24VDC Power Input

Block style connector used to connect an external 24VDC supply

3V Battery Included



Power LED

CPU LED

Low Battery LED

Insert I/O Modules

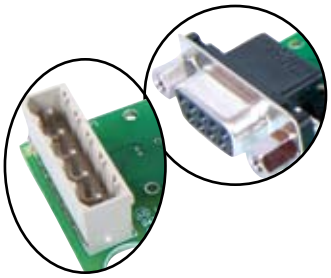
Snapped into the two slots

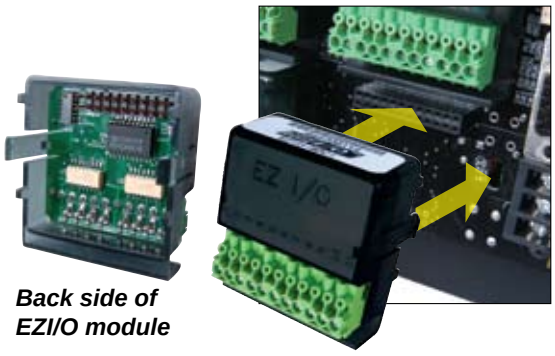
Remove I/O Modules

Removed from the slots by pressing the two clips on the side of the module.



DeviceNet, Profibus
Optional Port





Back side of EZI/O module

Caution: Do not use AC output module in the bottom left slot due to height of the battery

EZ-220PV-PLC/220P-PLC Front End



EZ-220PV-PLC

48 Digital I/O with Operator Interface



EZ-220P-PLC

Overview:

The EZ-220P-PLC and EZ-220PV-PLC come with a two line LCD or Vacuum Fluorescent display, a numeric keypad, control pushbuttons, pushbuttons with LEDs, and three LED annunciators. The displays contain two lines by 20, 5.5mm characters (2x20). The new EZ-220V comes with a bright two line Vacuum Fluorescent display with 5.5mm characters with a wider viewing angle of ± 60 degrees. Push buttons are used to control task or initiate an event in the PLC and in this way you can also monitor the bit condition in the ladder logic program. You can also define and program the five pushbuttons using the EZSeries TextPLC software. There also three annunciator lamps that can be used for various status of the machine or alarms.

Front Panel Descriptions:

LCD and VFD Display

There are two kinds of messages that can be viewed on these models: local Text panel and local PLC. When the machine is running in the normal mode, the local Text panel messages are displayed. The messages are viewed in tree structure format. A message beginning with "+" indicates a folder and when you select it by pressing enter, all the associated messages can be viewed and the "-" appears at the beginning of message.

The local PLC message is displayed whenever PLC triggers a message, The PLC message light will illuminate and the previous message on the display will be overwritten by the PLC message. The display will return back to the previous message after the PLC message is acknowledged.

There are three types of messages (Static, Dynamic or interactive) that may be configured in the EZSeries TextPLC Editor and you can store up to 256 messages.

Annunciator

Annunciators are high intensity LEDs that will illuminate to show the state set in the PLC. The LED colors (red, green and amber) are based on the bits in the associated PLC address string. You can also add Labels to LEDS using the provided templates

User-Defined Pushbuttons

We provide you with the blank labeled, user defined five pushbuttons. This provide you with the flexibility in customization so that you can custom label the pushbuttons and configure them as alternate, momentary, or alternate with PLC release.

Pushbuttons with LEDs

Above each pushbutton there is an associated LED. These buttons can be programmed to show various status or they can be programmed to be controlled by discrete bits in the PLC program. When push buttons are pressed, the three different control types (alternate, momentary, or alternate with PLC release) will determine the LED response. You can also make the LED to flash.

Numeric Keypad

EZSeries TextPLC's numeric keypad has 16 pushbuttons for scrolling data entry, or interactive messages. The numeric keypad can be used to update a value in the PLC. The value will be updated in the PLC only after the enter button has been pressed. The esc button will abort or cancel the changes without changing the PLC value.

Snap-in I/O Modules

Part Number	Description	Price	Delivery
EZ-220P-PLC	DC Power – 48 I/O Base	$342	STK
EZ-220P-PLC-E	DC Power – 48 I/O Ethernet	$441	3DAY
EZ-220P-PLC-D	DC Power – 48 I/O DeviceNet	$421	3DAY
EZ-220P-PLC-P	DC Power – 48 I/O Profibus	$471	3DAY

Screw-down I/O Modules

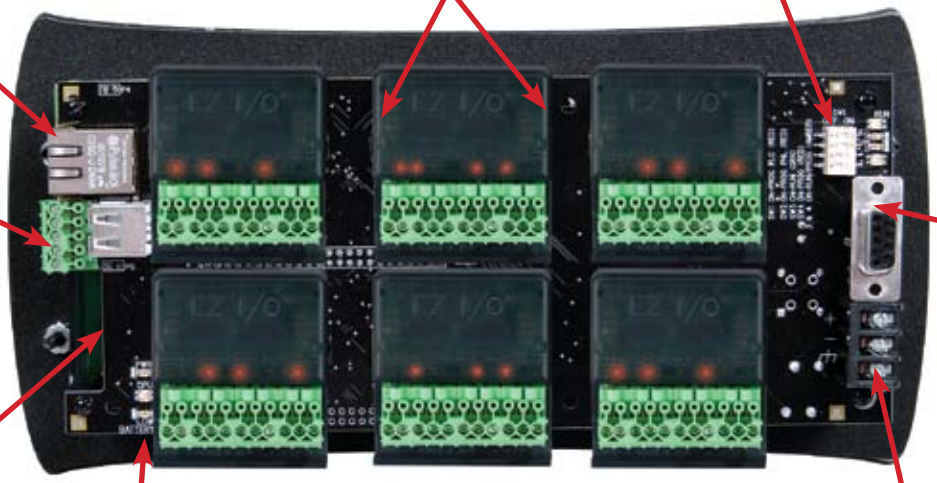
Part Number	Description	Price	Delivery
EZP-220P-PLC	DC Power – 48 I/O Base	$372	STK
EZP-220P-PLC-E	DC Power – 48 I/O Ethernet	$471	3DAY
EZP-220P-PLC-D	DC Power – 48 I/O DeviceNet	$451	3DAY
EZP-220P-PLC-P	DC Power – 48 I/O Profibus	$501	3DAY

EZ-220PV-PLC/220P-PLC Back End

Optional Ethernet connectivity

Snap-in I/O modules

Dip Switches and LEDs
For communication and operation setting



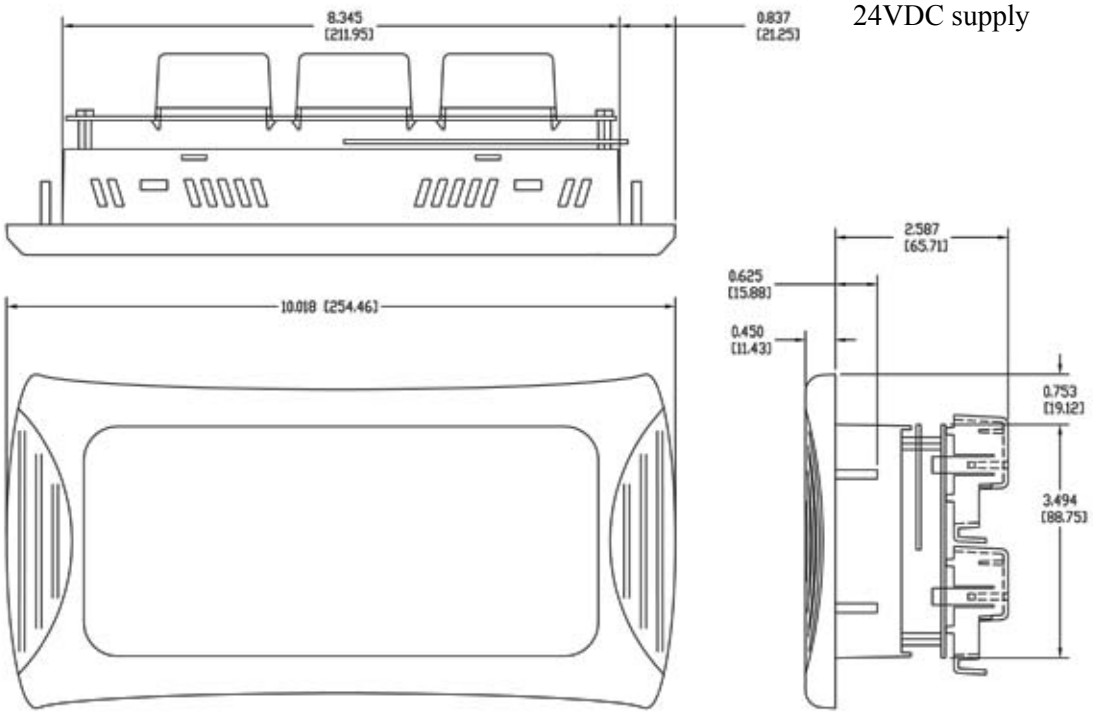
RS422/485 ASCII Port
Used to send or receive ASCII instructions to other devices

RS232 Programming Port
Used to program PLC or TextPanel

DeviceNet, Profibus Optional Port

CPU and Battery Status Indicators

24VDC Power Input
Block style connector used to connect an external 24VDC supply



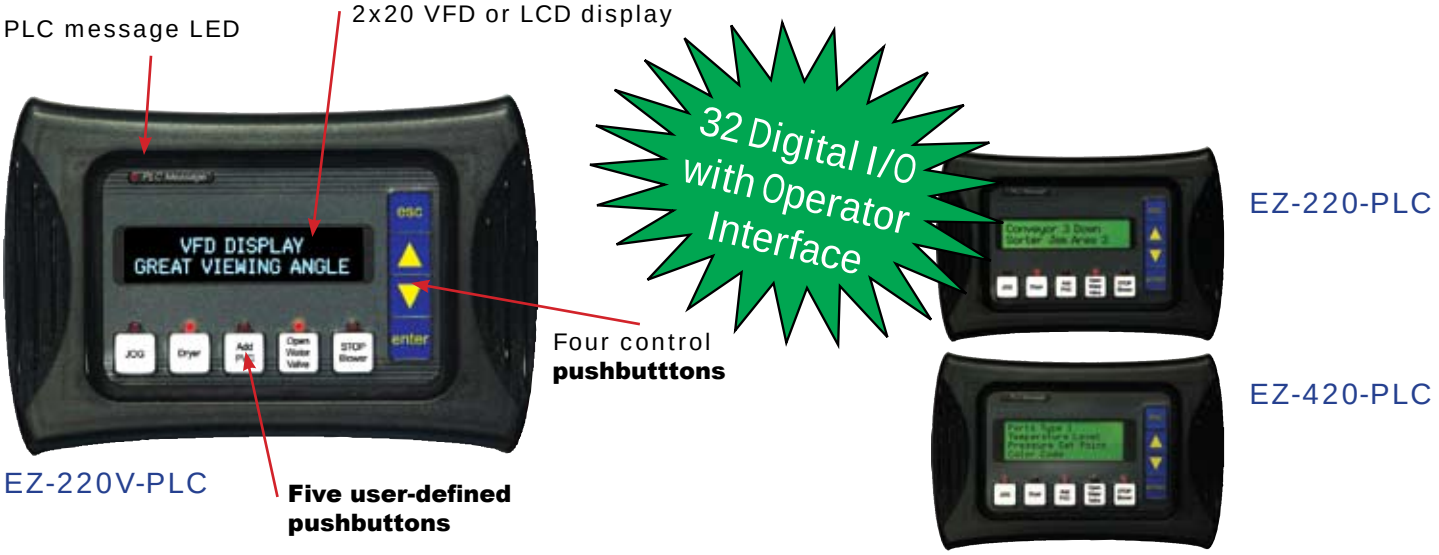
Snap-in I/O Modules

Part Number	Description	Price	Delivery
EZ-220PV-PLC	DC Power – 48 I/O Base	**$442**	STK
EZ-220PV-PLC-E	DC Power – 48 I/O Ethernet	**$541**	3DAY
EZ-220PV-PLC-D	DC Power – 48 I/O Ethernet and DeviceNet	**$521**	3DAY
EZ-220PV-PLC-P	DC Power – 48 I/O Ethernet and Profibus	**$571**	3DAY

Screw-down I/O Modules

Part Number	Description	Price	Delivery
EZP-220PV-PLC	DC Power – 48 I/O Base	**$472**	STK
EZP-220PV-PLC-E	DC Power – 48 I/O Ethernet	**$571**	3DAY
EZP-220PV-PLC-D	DC Power – 48 I/O Ethernet and DeviceNet	**$551**	3DAY
EZP-220PV-PLC-P	DC Power – 48 I/O Ethernet and Profibus	**$601**	3DAY

EZ-220V-PLC/220-PLC/420-PLC Front End



Overview:

The EZ-220-PLC (5.5mm character) comes with a two line 2x20 LCD display, pushbuttons with LEDs, and control pushbuttons. The EZ-420-PLC (4.75mm character) comes with a four line LCD display, and the new EZ-220V-PLC comes with a bright two line Vacuum Fluorescent display with 5.5mm characters with a wider viewing angle of ± 60 degrees. Pushbuttons are used to control tasks or initiate an event in the PLC and in this way you can also monitor the bit condition in the ladder logic program. There are five function pushbuttons with LEDs and four control pushbuttons.

Front Panel Descriptions:

LCD or VFD display

There are two kinds of messages that can be viewed on the screen of these models: local Text panel and local PLC. When the machine is running in the normal mode, the local Text panel messages are displayed. The local messages are viewed in tree structure format. A message beginning with "+" indicates a folder and when you select it by pressing enter, all the associated messages can be viewed.

The local PLC message is displayed whenever PLC triggers a message, the PLC message light will illuminate and the previous message on the display will be overwritten by the PLC message. The display will return back to the previous message after the PLC message is acknowledged.

There are three types of messages (Static, Dynamic or interactive) that may be configured in the EZSeries TextPLC Editor and you can store up to 256 messages.

Control Pushbuttons

To scroll through the messages you have the convenience of four control pushbuttons. Not only can you view the message, but if the message has any embedded data that can be changed, the buttons can be used to adjust the values of this as well. The value will be updated in the PLC only after the enter button has been pressed. The ESC button will abort or cancel the changes without changing the PLC value.

User-Defined Pushbuttons

We provide you with five blank labeled, user defined pushbuttons. This provides you with the flexibility to custom label the pushbuttons and configure them as alternate, momentary, or alternate with PLC release.

Pushbuttons with LEDs

Above each pushbutton there is an associated LED. These buttons can be programmed to show various states or they can be programmed to be controlled by discrete bits in the PLC program. When push buttons are pressed, the three different control types (alternate, momentary, or alternate with PLC release) will determine the LED response. You can also program the LED to flash.

PLC Message LED

The panel has a PLC message LED. The LED will illuminate to indicate that the PLC has triggered a message that will be displayed in the LCD window. The LED will turn OFF when the ESC pushbutton is pressed.

Snap-in I/O Modules

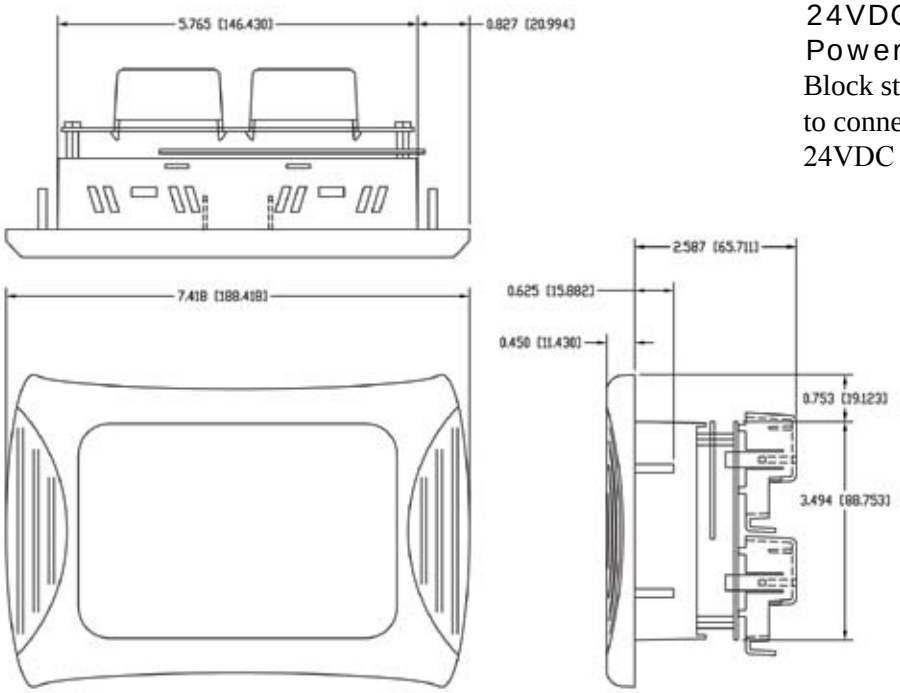
Part Number	Description	Price	Delivery
EZ-220V-PLC	DC Power – 32 I/O Base	$372	STK
EZ-220V-PLC-E	DC Power – 32 I/O Ethernet	$471	3DAY
EZ-220V-PLC-D	DC Power – 32 I/O Ethernet and DeviceNet	$451	3DAY
EZ-220V-PLC-P	DC Power – 32 I/O Ethernet and Profibus	$501	3DAY

Screw-down I/O Modules

Part Number	Description	Price	Delivery
EZP-220V-PLC	DC Power – 32 I/O Base	$402	STK
EZP-220V-PLC-E	DC Power – 32 I/O Ethernet	$501	3DAY
EZP-220V-PLC-D	DC Power – 32 I/O Ethernet and DeviceNet	$481	3DAY
EZP-220V-PLC-P	DC Power – 32 I/O Ethernet and Profibus	$531	3DAY

EZ-220V-PLC/220-PLC/420-PLC Back End





Snap-in I/O Modules

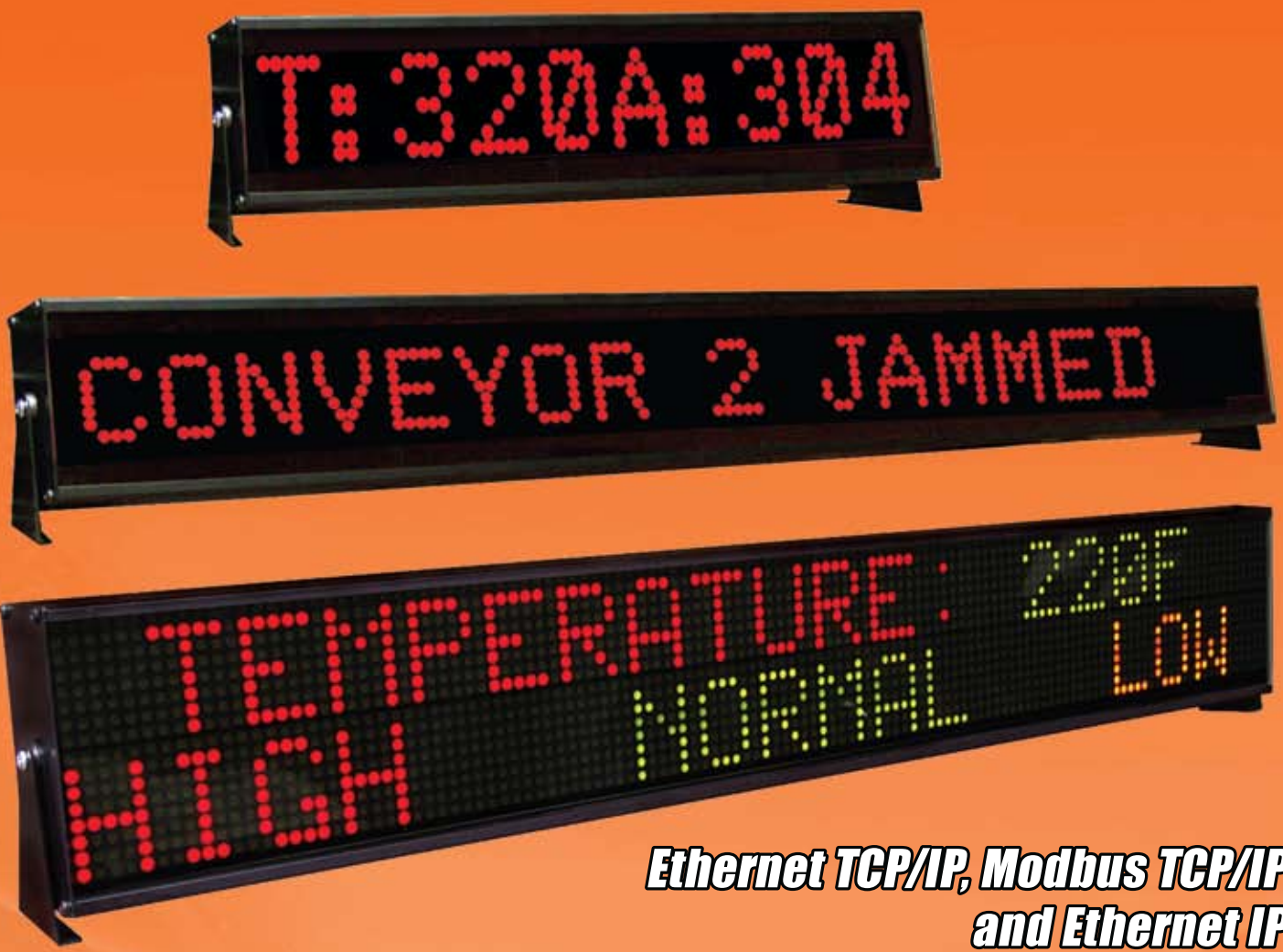
Part Number	Description	Price	Delivery
EZ-220-PLC	DC Power – 32 I/O Base	**$272**	STK
EZ-220-PLC-E	DC Power – 32 I/O Ethernet	**$371**	3DAY
EZ-220-PLC-D	DC Power – 32 I/O Ethernet and DeviceNet	**$351**	3DAY
EZ-220-PLC-P	DC Power – 32 I/O Ethernet and Profibus	**$401**	3DAY
EZ-420-PLC	DC Power – 32 I/O Base	**$292**	STK
EZ-420-PLC-E	DC Power – 32 I/O Ethernet Base	**$391**	3DAY
EZ-420-PLC-D	DC Power – 32 I/O Ethernet and DeviceNet	**$371**	3DAY
EZ-420-PLC-P	DC Power – 32 I/O Ethernet and Profibus	**$421**	3DAY

Screw-down I/O Modules

Part Number	Description	Price	Delivery
EZP-220-PLC	DC Power – 32 I/O Base	**$302**	STK
EZP-220-PLC-E	DC Power – 32 I/O Ethernet	**$401**	3DAY
EZP-220-PLC-D	DC Power – 32 I/O Ethernet and DeviceNet	**$381**	3DAY
EZP-220-PLC-P	DC Power – 32 I/O Ethernet and Profibus	**$431**	3DAY
EZP-420-PLC	DC Power – 32 I/O Base	**$322**	STK
EZP-420-PLC-E	DC Power – 32 I/O Ethernet Base	**$421**	3DAY
EZP-420-PLC-D	DC Power – 32 I/O Ethernet and DeviceNet	**$401**	3DAY
EZP-420-PLC-P	DC Power – 32 I/O Ethernet and Profibus	**$451**	3DAY

EZMarquee™

Industrial LED Message Displays with great connectivity to PLCs & Networks



Ethernet TCP/IP, Modbus TCP/IP and Ethernet IP

THE MOST SENSIBLE LED MESSAGE DISPLAYS

Innovate'n'Save™

EZMarquee - The Most SENSIBLE Industrial/PLC Marquees at Affordable Prices

EZMarquee™



AFFORDABLE COMMUNICATION

What is EZMarquee?

In today's industrial climate, communication needs to be instantaneous, interactive and proactive allowing Employees and Management to make timely decisions based on up-to-the-minute facts of the manufacturing process. EZMarquees offer a wide variety of visual displays that provide the most practical and affordable communication solution.

What does it have?

- 2" - 8" Red or Tricolor characters
- International Character Set
- From single line 10 characters to 4 lines of 40 characters
- String a network of 16 marquees
- EZ ASCII interface to PLC's and PC Based Controls
- Devicenet, Profibus and Ethernet options
- NEMA 12 Industrial Ratings, 0° to 60°C
- UL, CUL, CSA, CE, Pending

Where does it make sense?

EZMarquees are an excellent way to keep workers in touch with the manufacturing process via the following:

- Monitor productivity
- Communicate Alarm and safety messages
- Provide continuous report on factory conditions

Machine Productivity/Status

Prior to the introduction of EZMarquee, it cost about $1500 to have an industrial marquee on a machine which limited its use to only large machines.

Now with EZMarquees available in the $500 price range, every production **machine can benefit from the use of a marquee.**

16 MODELS IN STOCK!!

Featuring



$379

1 Line of 2" Red, 10 Characters



$549

1 Line of 2" Red, 20 Characters



$989

2 Lines of 2" Tri-Color, 20 Characters

EZ INTERFACE to PLCs, PCs, & Embedded Controllers

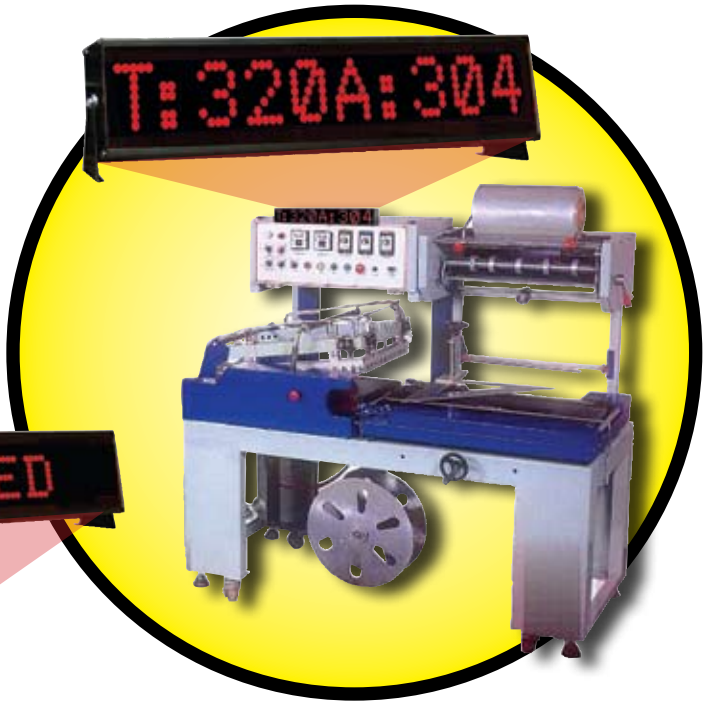
TWO FOR ONE PRICING

You can buy two EZMarquees for the price of one of our competitors marquees!

At These Prices, All Production Machines Should Have a Marquee!

Display Production Data and Alarms

Display production target data and actual data results on the EZMarquee (EZMR-1L10C) as shown **to the right for only $379**





Alert Alarm Conditions

Display critical alarm conditions on the EZMarquee (EZMR-1L20C) **as shown to the left for only $549**

Innovate'n'Save™

Communicate Machine/ Process Status Up to 200 Feet Away

Display machine and process status on the EZMarquee (EZMT-2L20C) as shown to **the right for only $989**



EZMarquee Will Pay for Itself in Less than 3 Months!

Increase Productivity and Savings

Most production machines or manufacturing lines produce anywhere from $500 to $50,000 of revenue per hour. Assuming 50% of the revenue to be material costs and the rest to be labor and overhead, you can quickly determine that even 1% increase in productivity means savings of at least $2.50 per hour which translates to at least $100 per week savings. You can calculate the rest!

So, if you are a Plant Engineer or Plant Manager, ask your Original Equipment Manufacturer to install a marquee on your machine.



HALT CERTIFIED HASS

30 DAY GUARANTEE MONEY BACK

"For a 6 week ROI, we should have **an EZMarquee on every machine!"**





Get ahead of the competition by **offering a bright** LED marquee on your machine

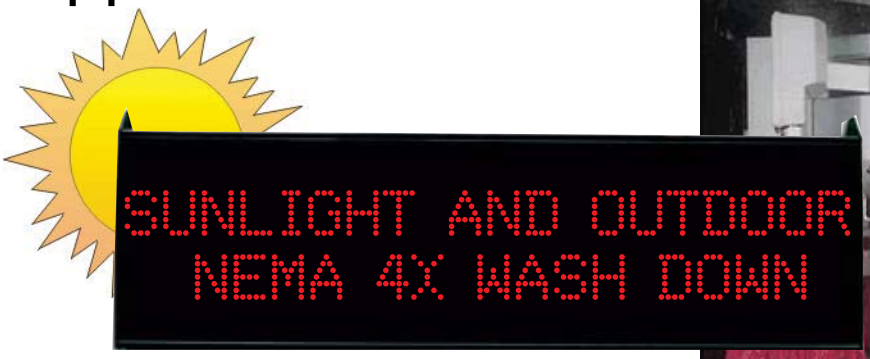
Offer a Marquee with your Machine

If you are an OEM, you can get a jump start on your competition by offering a 2", 20 character marquee for less than $500. Your machine will have the modern look of the 21st century and will be noticed (up to 100 feet away) by everyone at your customer's facility.



Innovate'n'Save™

EZMarquee for Sunlight and Outdoor Applications





Outdoor NEMA 4X Wash-down Enclosure and High-bright Sunlight Readable LEDs

EZMarquees are available with NEMA 4X wash-down enclosures suitable for Outdoor applications. In addition, the RED LED models are also available with very High-bright LEDs for Sunlight readability. Car washes, Quarries and Mines typically need both of these features. See page 5-20 for additional information.



Indoor High-bright Sunlight Readable LEDs

EZAutomation offers its RED marquees in “H” models that have very high luminous intensity as well as NEMA 12 rating. These marquees are suitable for indoor applications that may be exposed to direct sunlight, such as inside Buses, Railways or other transportation vehicles. They can also be used for displaying advertising messages behind windows. See page 5-28 for additional information

Innovate‘n’Save™

Guide to High-bright and Outdoor Part numbers:

Part number for a standard 2 Line 20 Character EZMarquee with RED LEDs is EZMR-2L20C. Adding “H” after the letter “R” makes it a High-bright Marquee and adding a suffix “OUT” at the end of the standard part number makes it a Marquee with NEMA 4X and Outdoor Enclosure. As an example EZMRH-2L20C is a 2 Line 20 Character Marquee with RED LEDs that are readable in Sunlight. Simillarly EZMRH-2L20C-OUT is a 2 Line 20 Character marquee with RED LEDs that are readable in Sunlight, housed in an Outdoor NEMA 4X enclosure made with aluminum extrusion.

please note that TRI color Marquees can have the “OUT” suffix but not “H”, that is High-bright is available only in EZMarquees in RED LEDs

You'll Get Outstanding Quality, Features, Price...

Mixed Character Heights on the Same Line

EZMarquee is capable of displaying mixed character sizes on the same line! Other marquees limit you to use just one character size per line, which means you cannot use 2", 4", 6" or 8" character sizes on the same line.





Here is an Example!

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Say we have a 2 Line, 20 Character per line marquee.
It can display either 2 lines of 20 2" characters, or 1 line of 10 4" characters.

The message you want to display is:

Temp. Zone 1: 454

And you want to see the temperature "454" 200 feet away, using 4" characters. With competitors' marquees you either scroll your message or are forced to get a much bigger marquee at more than double the cost.

Not with EZMarquee!

Since you can mix character heights, you can achieve your objective by displaying the message like this:



This allows Temperature "454" to be visible 200 feet away and still have a 20 character 2" Marquee.





Scroll and Blink Your Messages!

With EZMarquee, messages displayed can be Stationary, Scrolling or Blinking based on the embedded codes in an ASCII string. Left-scroll messages feature "smooth scrolling", that is, letters move one LED at a time. Each portion of a letter will illuminate every dot in that row when it scrolls across the display. Upward-scrolling messages actually do not scroll at all. Rather, they "wipe on" to the display in an upward fashion. The first section of message lines appear, then the display pauses, clears, and displays the next section of text.

EZMarquee's non-scrolling messages can contain blinking characters whereas scrolled messages cannot have blinking characters. The time interval for 'on' and 'off' states of a blinking message can also be controlled.

...and Performance From the EZMarquee Family!















International Character Set

Take advantage of EZMarquee's International character set to display your messages in multiple international languages. This option is switch selectable to allow message display in U.S. English, French, Danish, Swedish, German, Cyrillic or Japanese Kana!



EZMarquee is EZ to Connect to your PLC/Network

All you need is ASCII out

Connect to your DL06 PLC

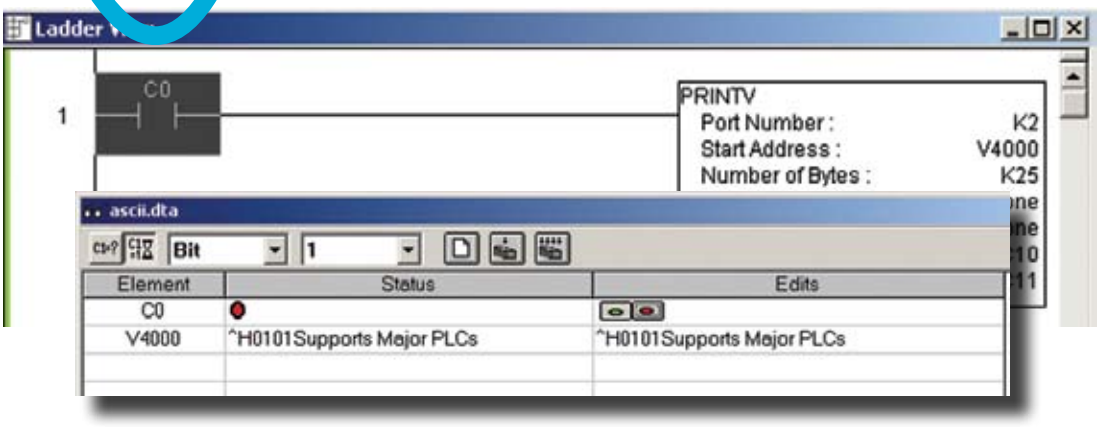




Connect RS232 ASCII port 2 of DL06 to RS232 port of EZMarquee.

For networking multiple marquees, **configure port 2 as RS422 and connect to RS422/485 of EZMarquee.**

Use PRINTV **function to initiate ASCII** Command to trigger relevant message



Connect to your MicroLogix or ControlLogix

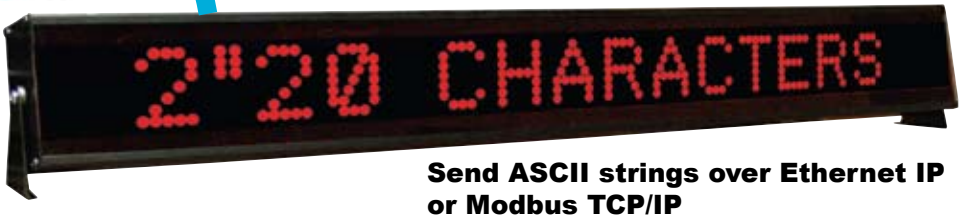




Use AWT ASCII Write with:
SLC 5/03 OS301, OS302
SLC 5/04
SLC 5/05
MicroLogix 1200 Series B
MicroLogix 1500 Series B

Connect MicroLogix **to RS232 port of EZMarquee.**

Ethernet IP



Send ASCII strings over Ethernet IP or Modbus TCP/IP

EZMarquee is EZ to Connect to your PLC/Network

All you need is ASCII out

Connect to your GE Versamax Micro



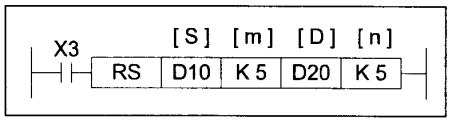
Connect GE Versamax Micro to RS232 port of EZMarquee.



Connect to your Mitsubishi FX



Connect to Mitsubishi **FX to RS232 port of** EZMarquee with RS **(FNC 80) instruction**

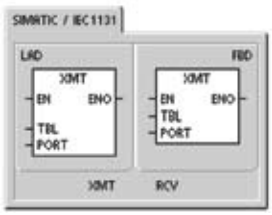




Connect to your Siemens S7



Connect Siemens **S7 to RS232 port of** EZMarquee with XMT **instruction.**





FREE String Generator Software
Makes it EZ to Configure Your EZMarquee

Most PLCs have a fairly simple mechanism to generate an ASCII string, but we made it even EZier.

You can download FREE software from www.EZAutomation.net to configure EZMarquee, preview messages and generate ASCII strings which can be simply copied and pasted into the PLC ladder logic.

FREE
DOWNLOAD FROM
EZAutomation.net

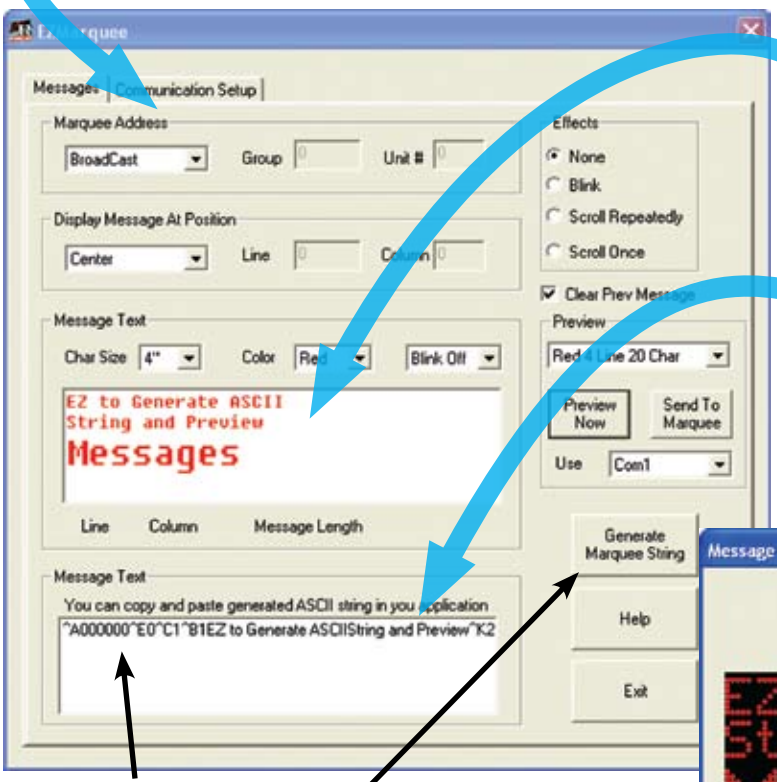
Innovate'n'Save™





1 **Configure EZMarquee to set up communication parameters and address if in a network of marquees.**

NO COURSE
EZ SOFTWARE
REQUIRED



2 **Type in your message along with it's attributes like character size, color, and effects like scrolling or blinking. Preview the message to edit any changes.**

3 **Copy the ASCII string and paste to the appropriate line in your ladder logic.**

See what your message will look like instantly



We make it EZ to generate ASCII Strings

EZMarquee is *Even EZier* to Use with EZPLC

EZPLC has a "send Marquee Message" instruction that allows messages to be easily programmed and stored in the EZPLC.

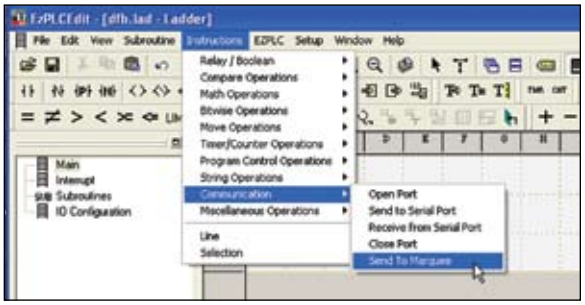
NO need to generate ASCII Strings, it's AUTOMATIC!



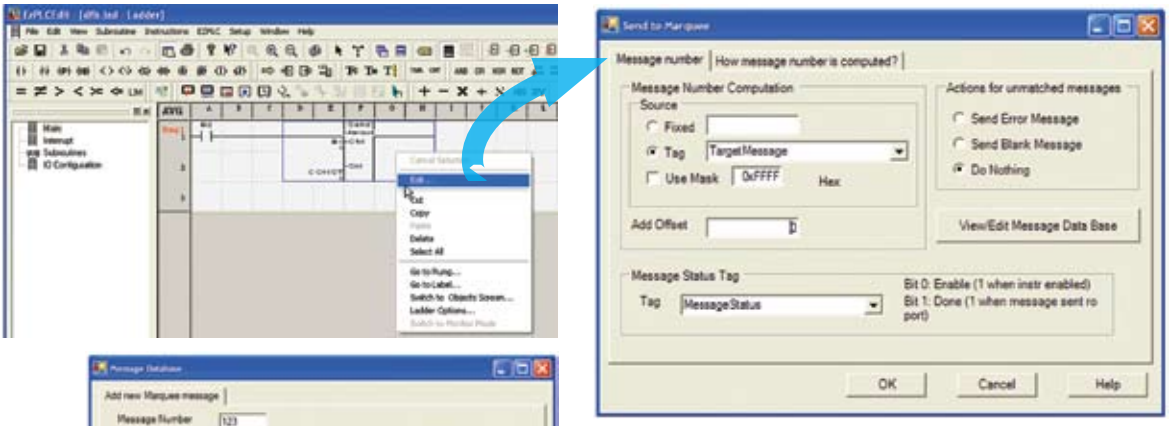
EZPLC has an RS422/485 port and an Ethernet port that can be connected to the corresponding port on the EZMarquee.

In addition, message programming and storage is much EZier as EZPLC has been designed from ground up to easily communicate with marquees.

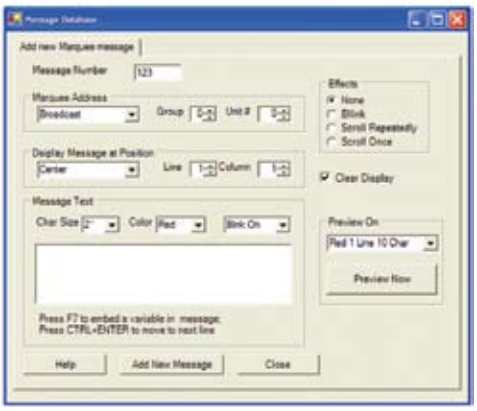
1 **Use EZPLC's "Send to Marquee" instruction to initiate communication with EZMarquee.**



2 **Configure your message's source tag and status tag.**



3 **Control your message attributes without ever having to worry about ASCII format**



Type in your message along with it's attributes like character size, color, and effects like scrolling or blinking. Preview the message to edit any changes.

EZMarquee is Designed and Built Industry Tough

NEMA 12 Waterproof, designed to withstand plant **floor environments and communicate to PLCs**

The EZMarquee is an industrial marquee which costs almost the same as a commercial marquee. The commercial marquees can not tolerate the environment of a typical plant, that is wide voltage fluctuations, high temperatures, high shock and vibration, exposure to dust and water and most importantly, electrical noise, typical in a plant.

EZMarquees were designed by an engineering team with an average of 23 years of experience per engineer, in designing industrial products.

EXPERIENCED DESIGN TEAM

EZAutomation used HALT (Highly Accelerated Life Testing) for identifying component & interconnect issues. HALT tests new designs for temperature & mechanical shock. HASS (Highly Accelerated Stress Screening) is used to ensure continued industrial quality in production.

HALT/HASS TESTING

Like every other product designed by EZAutomation, EZMarquees went through extensive electrical tests such as: NEMA ICS 2-230, showering arc, ANSI C37.90a-1974, & Surge.

ELECTRICAL NOISE TESTING

EZMarquee products have all appropriate regulatory approvals, such as UL, cUL, and CE for European market. (pending)

REGULATORY TESTS

During production, EZMarquees get a 24-hour burn-in to eliminate premature mortality.

BURN-IN CHAMBER

The result is an Industrial Marquee capable of withstanding a harsh industrial environment and communicating to your PLC over an RS422/485 port or DeviceNet , Profibus, or Ethernet.

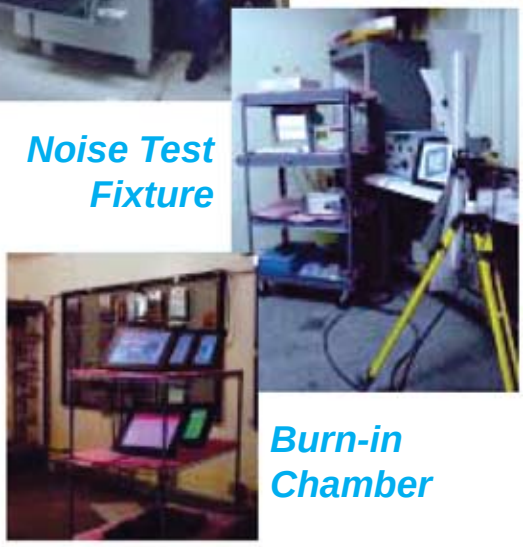
PERFECT FIT FOR AN INDUSTRIAL SETTING



Team of Engineers



HALT-HASS Chamber



Noise Test Fixture

Burn-in Chamber



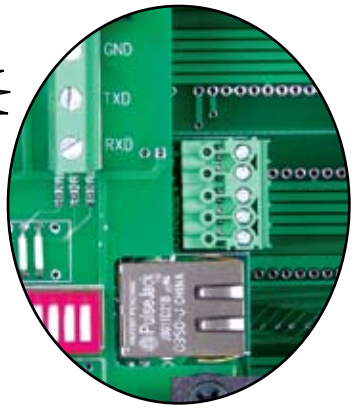
EZMarquee™ Ethernet, DeviceNet and Profibus Communication Interface Options

EZMarquee can be ordered with Ethernet TCP/IP, Modbus TCP/IP, Ethernet IP, DeviceNet, or Profibus communication interface built-in. This allows you to connect multiple EZMarquees over any of these networks and reduces hard wiring costs.

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Ethernet TCP/IP with Modbus and Ethernet IP for Allen Bradley PLCs

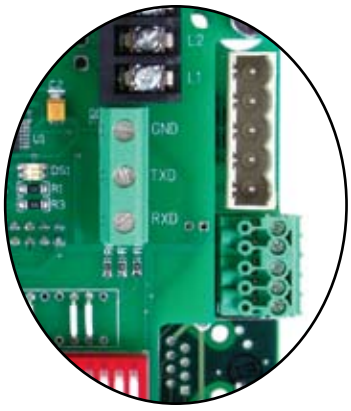
$99



All EZMarquee models are available with built-in high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows EZMarquee to reside on a 10 Mbps TCP/IP network (10Base T Ethernet) via an RJ45 port. Use Ethernet models for easy networking of EZMarquees with 100 meters being the maximum distance between two nodes. For distances greater then 100 meters repeaters can be used to extend the distance between any two nodes. For details on how to send messages to EZMarquee over Ethernet, consult EZMarquee's manual.

DeviceNet

$99

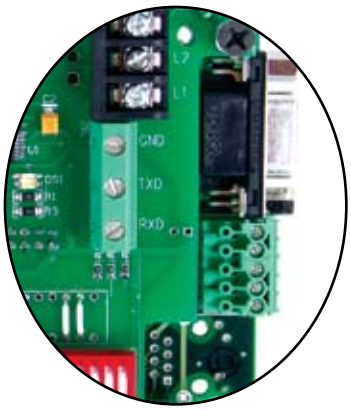


1 V-
2 CAN L
3 Drain
4 CAN H
5 V+ (24V)

EZMarquee models when ordered with built-in DeviceNet Slave communication interface provide DeviceNet connectivity in addition to RS232 and RS422/485 communication ports. DeviceNet communication interface for EZMarquee provides a digital, multi-drop network that can be used for communicating with DeviceNet enabled controllers and I/O devices. On DeviceNet network every device acts as a node and allows multiple communication hierarchies and prioritization of messages. EZMarquee with DeviceNet communication interface can be configured in a master-slave control architecture as a slave node and allows peer-peer communication. DeviceNet control system provides a single point of connection both for configuration and support for I/O as well as explicit messaging.

Profibus

$139



All EZMarquee models are available with built-in Profibus Slave communication interface in addition to RS232 and RS422/485 communication ports. This gives EZMarquee the ability to link with a Profibus Master Controller.
Profibus is a vendor independent open field bus protocol standard in manufacturing automation and process control. It reduces hard-wiring costs and provides specifications for information exchanged between nodes of a Profibus network. This communication interface provides the ability to transfer data between a Profibus master and EZMarquee. The Profibus communication interface also has an auto-detect feature for the baud rate of the Profibus network.

NOTE: The $99 and $139 adders apply only to standard indoor Marquees. For High-bright and Outdoor models check specific part numbers

You'll Never Buy a Competitor's Marquee After Comparing These Features... *Innovate'n'Save™*

2 Lines of 2" Tri-Color, 20 characters each line

EZMarquee
$989



MORE BANG FOR YOUR BUCK!!



AB Inview P42C
$2355



Watch out for heat rise and thermal shutdown



Adaptive 4120C
$2309



Communications, if available, cost an arm & a leg



GE/TCP QuickMarquee
$4274



Hope you own the bank!



Vorne M1000
$1740



OOPS! No Tri-color, limited communication

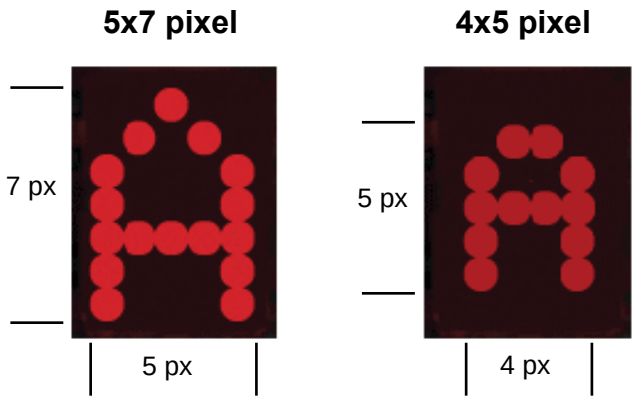


Feature	*EZAutomation* EZMarquee EZMT-2L20C	*Allen-Bradley* Inview 2706-P42C	*Adaptive* Alpha 4120C	*GE* Quick Marquee QM1104COA
Standard Enclosure	NEMA 12	NEMA 12	NEMA 12	NEMA 12
Display type	TRI-COLOR	TRI-COLOR	TRI-COLOR	TRI-COLOR
Size	2 lines of 20 2" characters	2 lines of 20 2" characters	2 lines of 20 2" characters	2 lines of 20 2" characters
Power Consumption	110 to 250 VAC 55 Watts	110/240 VAC 180 Watts	120 VAC 180 Watts	115 VAC 150 VA
Weight	8.5 lbs	28 lbs	28 lbs	50 lbs
Full Brightness Operating Temperature	0-60 C°	0-35 C° with heat rise	0-35 C° with heat rise	0-55 C°
Humidity	5-95% NC	5-95% NC	5-95% NC	5-95% NC
Character Set	International	Extended ASCII	International	ASCII
Communication Ports	RS232/422/485	RS232/485	RS232/485	RS232/422/485
Mixed Character Heights in One Line	Yes	No	No	No
Price	**$989**	**$2,355**	**$2,309**	**$4,274**
CONNECTIVITY / PRICE				
Ethernet	$99	2706-PENET1 $670	1088-114A $268.50	None
DeviceNet	$99	2706-PDNET $615	1188-9203 $900	None
Profibus	$139	Not Available	1188-9201 $900	None

Better Readablity at Lower Prices

Full 5x7 pixel has better readability as compared to truncated 4x5 pixel

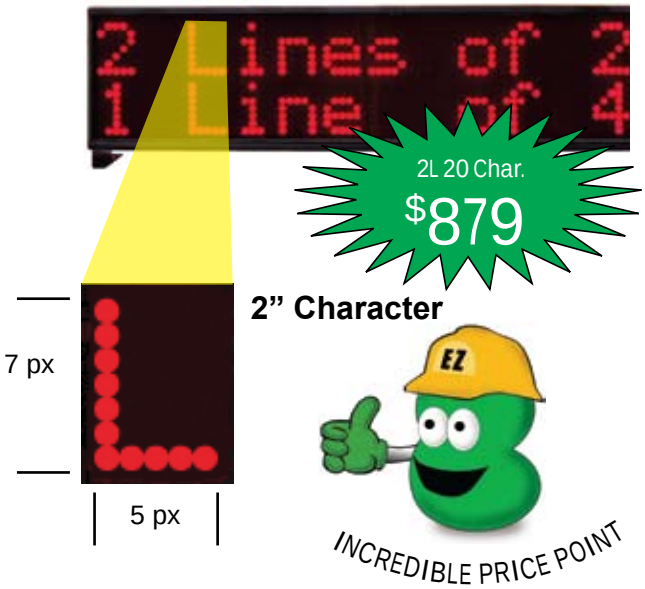
EZ Marquees use full 5x7 pixel characters. Many of our competitors reduce their cost by a 4x5 pixel character, for example, they might portray a 20x200 pixel display to be a 4 line 40 character marquee. Since you need minimum of 1 pixel for spacing between characters, this pixel matrix can only have 3 lines of 32 characters. EZ Marquees' 4 line 40 character display has a pixel matrix of 32x240, 60% more LEDs, which gives you the best readability in the market.



Incredible Price Point of $20 per 2" Character

EZMarquee is an industrial marquee which costs almost the same as a commercial marquee. The commercial marquees can not tolerate the environment of a typical plant, that is wide voltage fluctuations, high temperatures, high shock and vibration, exposure to dust and water and most importantly, electrical noise, typical in a plant. EZ Marquees are available starting at $379 whereas our competitors marquees costs $1500 - $2000.

Most of our EZ Marquees costs $20 per 5x7 pixel for 2" RED LED character, as compared to $100 per character. In addition these marquees have built-in RS422/482 port for networking and interface to industrial controls in the plant. Further, they can be connected to DeviceNet at an incredibly low price of $99, Ethernet for $99 and $139 for Profibus. Thus every production machine either large or small can benefit from the use of EZ Marquees.



Last Message Stored in Flash Memory

NEW

Last Message sent is saved in Non Volatile Flash memory. Upon Power Cycle the Marquee displays the saved Message



Even though the EZMarquee was designed to be a Slave marquee simply displaying the message being sent to it by a master, we have had a number of requests from our customers to add this feature. So, here it is.

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Let's Compare 1 Line of 10, 2" Red Character Marquees



Feature	EZAutomation EZMarquee EZMR-1L10C	RedLion LMC1 LMC1	Adaptive 522 215R	Vorne GY2200 GY2200-232/485-SB
Standard Enclosure	NEMA 12	NEMA 4 (Front only)	NEMA 12	No NEMA Rating
Display type	RED	RED	RED	RED
Size	1 line of 10 2" characters	1 line of 10 2" characters	1 line of 14 2" characters	1 line of 10 2" characters
Power Consumption	110 to 250 VAC 8 Watts	110/240 VAC 25 VA	10-24 VDC 35 Watts	110 VAC 18 Watts
Weight	2.8 lbs	8.12 lbs	5 lbs	5 lbs
Full Brightness Operating Temperature	0-60 C°	0-50 C°	0-50 C°	0-55 C°
Humidity	5-95% NC	5-95% NC	5-95% NC	5-95% NC
Character Set	International	Standard ASCII	Standard ASCII	International
Communication Ports	RS232/485	RS232/20mA (MDPS module)	RS485	RS232/485
Price	**$379**	**$1084**	**$549**	**$685**
CONNECTIVITY / PRICE				
Ethernet	$99	Not Available	1088-114A $268.50	Not Available
DeviceNet	$99	Not Available	1188-9203 $900	Not Available
Profibus	$139	Not Available	1188-9201 $900	Not Available

How About Comparing 1 Line of 20, 2" Tri-Color Characters



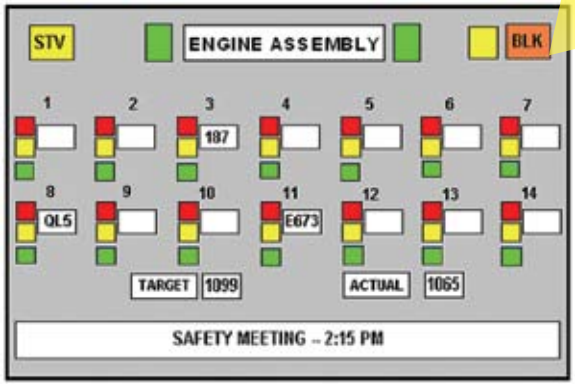
Feature	EZAutomation EZMarquee EZMT-1L20C	GE 522 8BSL	Adaptive Alpha 220C	AB Inview
Standard Enclosure	NEMA 12	NEMA 12	No NEMA Rating	**SORRY! THEY HAVE ONLY LIMITED NUMBER OF MODELS!**
Display type	TRI-COLOR	RED ONLY	TRI-COLOR	
Size	1 line of 20 2" characters	1 line of 20 2" characters	1 line of 20 2" characters	
Power Consumption	110 to 250 VAC 28 Watts	Not Available	100 to 240 VAC Not Available	
Weight	5.5 lbs	19 lbs	4.7 lbs	
Full Brightness Operating Temperature	0-60 C°	0-50 C°	0-49 C°	
Humidity	5-95% NC	10-95% NC	0-95% NC	
Character Set	International	ASCII	International	
Communication Ports	RS232/485	RS232/422	RS232/485	
Price	**$649**	**$1401**	**$799**	
CONNECTIVITY / PRICE				
Ethernet	$99	Not Available	1088-114A $268.50	
DeviceNet	$99	Not Available	1188-9203 $900	
Profibus	$139	Not Available	1188-9201 $900	

You No Longer Have to be GM to Afford Marquees or "AND-ONS" in your Plant

Innovate'n'Save™

AND-ONs Improve Plant Productivity

AND-ON is actually a Japanese word for marquees. Most Japanese plants in the early eighties recognized that in order to achieve their productivity gain targets, it was vital to communicate important production information, whether it relates to production rates, downtime and uptime data, alarm messages or simply displaying motivational or employee recognition messages. They wanted to have these messages displayed for visibility over hundreds of feet.



Americans and Europeans Begin to Follow Suit

American and European plants, wanting to achieve the same productivity gains, started to use marquees extensively in the late eighties and early nineties. However, the price of these AND-ONs or Marquees remain out of reach for most smaller plants. The prices range from $5,000 to $50,000 depending on the number and size of characters, and typically you had to buy 50 plus marquees to get these prices.

TRADITIONAL 14 STATION AND-ON COSTING ABOUT $20,000 IN SINGLE **UNIT QUANTITIES**



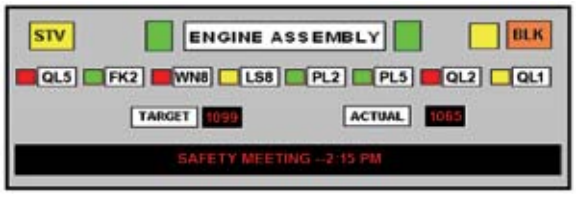
EZMarquee Makes Visual Productivity Tools Affordable for Everyone!

Introduction of the EZMarquee with the established Uticor reliability, now makes these important productivity tools available to smaller companies even in single quantities. Not only can a small company now afford to put marquees on it's plant floor, EZAutomation delivers on it's promise of "Twice the Features, at Less than Half the Cost!" A typical AND-ON is not very flexible and essentially a custom product with letters engraved all over the display. If you need to make a change once you ordered your custom AND-ON, guess what? YOU'RE STUCK! Not with EZMarquee. Even at half the cost, EZMarquee is completely flexible. Every character is programmable the way you want it.

1/3RD THE COST AND YET COMPLETELY **PROGRAMMABLE!**



Traditional AND-ON showing status of 7 stations, target production and actual **production, 40 character message line**



Lead time: 6-8 weeks

Custom AND-ON $10,000



EZMarquee (EZMT-4L40C)
4 Line 40 Character TRI-COLOR LED
Every single character is programmable



Lead time: Same day shipping or maximum 3 days

EZMarquee $3,299

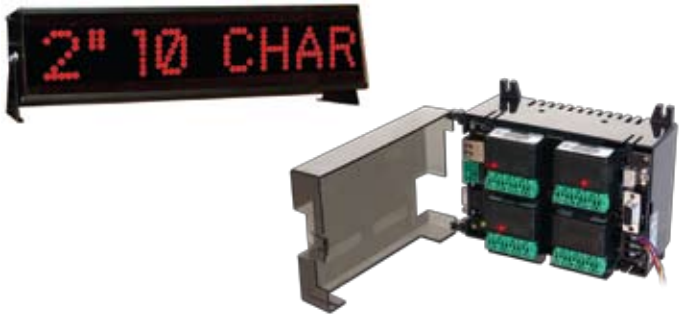


EZMarquee when Combined with EZPLC, **Makes a Terrific Stand-Alone System** to Display Process Conditions

EZMarquee, just like other marquees mentioned in this section, by itself is a slave device. It displays whatever information is sent to it by a master which could be either a PLC, a PC or an Embedded Controller. This information can be sent over a serial connection like RS232/422/485 in ASCII format, or Ethernet or DeviceNet or Profibus. It does not store any messages either. Many applications have the need to trigger preprogrammed messages or display the contents of a scaled process variable. For example, take a 4-20 mA reading from a pressure transmitter and display digital equivalent. Or you may simply want to display production count and rate at the end of a production line without having to go to a PLC and deal with writing ladder logic for it.

Since the EZMarquee can be very easily integrated with our EZPLC and this almost FREE PLC has a special marquee port, you can add the power of a very powerful PLC for as little as $130.00.

"Provides functionality of multi-thousand dollar systems for just $130 more!"



EZMarquee/EZPLC Combination for any process display/control

Here are some **examples of EZMarquee/EZPLC** Combinations

1. **Counter Indicator/Controller**
2. **Analog Process Display and** Control
3. **Message Database for up to** 10,000 messages
4. **Production/Rate Counter**

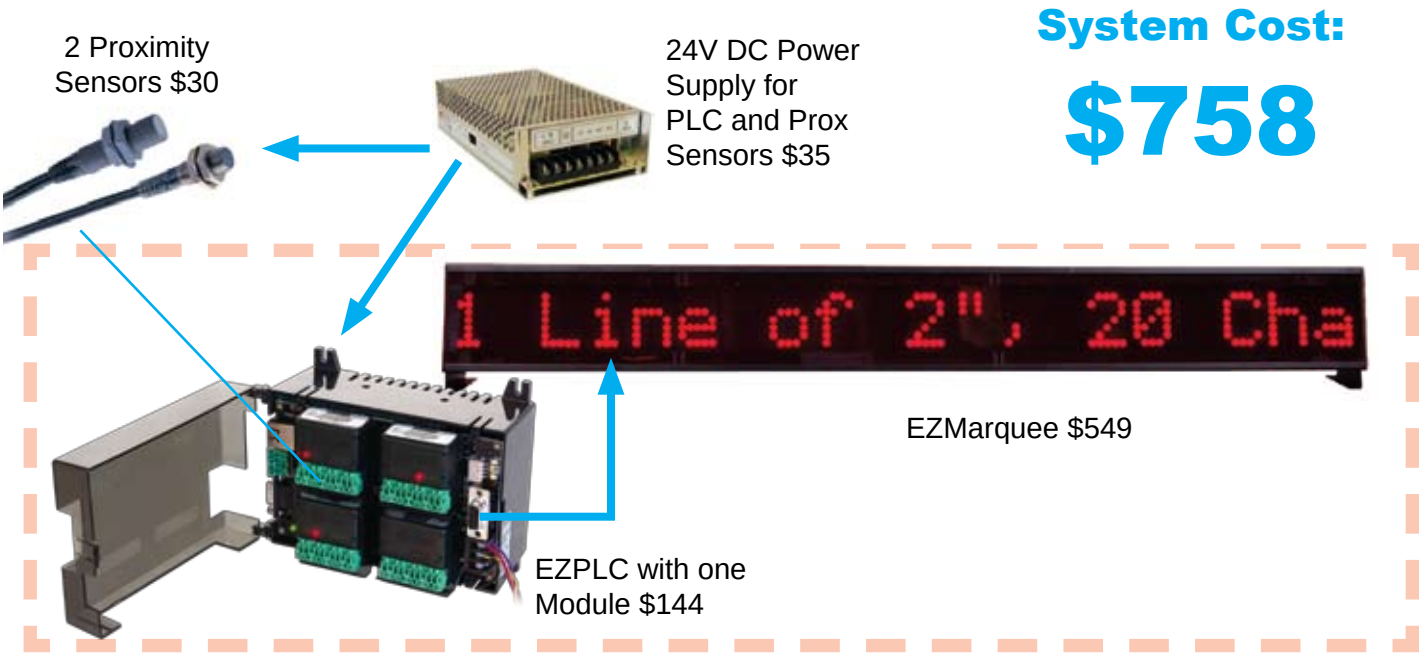


Use any digital/analog transducer(s) with an **EZMarquee/EZPLC Combination**

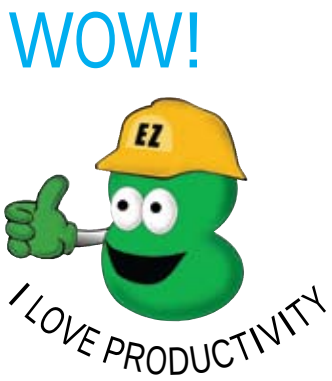
Counter Indicator / Controller

A production counter with Good Parts, Bad Parts, Uptime, Downtime, and Production rate and Visible to 100 Feet!

Let's examine the complete system cost for making a counter display with our EZPLC/EZMarquee combination along with a 24VDC power supply and two proximity sensors. The proximity sensors are for generating inputs for good part and bad part count which feed a signal to EZPLC. Our EZPLC generates an ASCII string for EZMarquee through its built-in marquee instruction set and is sent over RS232/485 communication port.



Model Number	Description	Price
EZMR-1L20C	1 Line 20 Character RED-LED	$549
EZPLC-D-32, EZP-8DCI	32I/O PLC with 8 point DC In	$144
	24VDC Power Supply	$35
	Proximity Sensors	$30
	Total	**$758**



So, you have a Terrific Line Productivity Monitor for just $758 system cost!!

Expand with Ease!

Want the message triggers to come over DeviceNet, Profibus or Ethernet? Add it for only $99 for Ethernet, $79 for DeviceNet, and $139 for Profibus!

Want to trigger alarms? It's easy! Just get another EZI/O Relay Out module (EZIO-4RLO) to EZPLC (32I/O Capacity) and you get 4 AC/DC Relay outs to trigger alarms and sirens for only $39 more!

Analog Process Display and Control

Monitor 8 Analog Process Variables, Display on a Tri-color Marquee and Turn 4 Alarms ON

Let's read 4-20 mA current signals from up to 8 different temperature/pressure/flow gauges, Scale the readings, Display on a 2" RED LED marquee, and activate up to 4 Relay outputs for your alarms and sirens when your process readings exceed programmed limits!

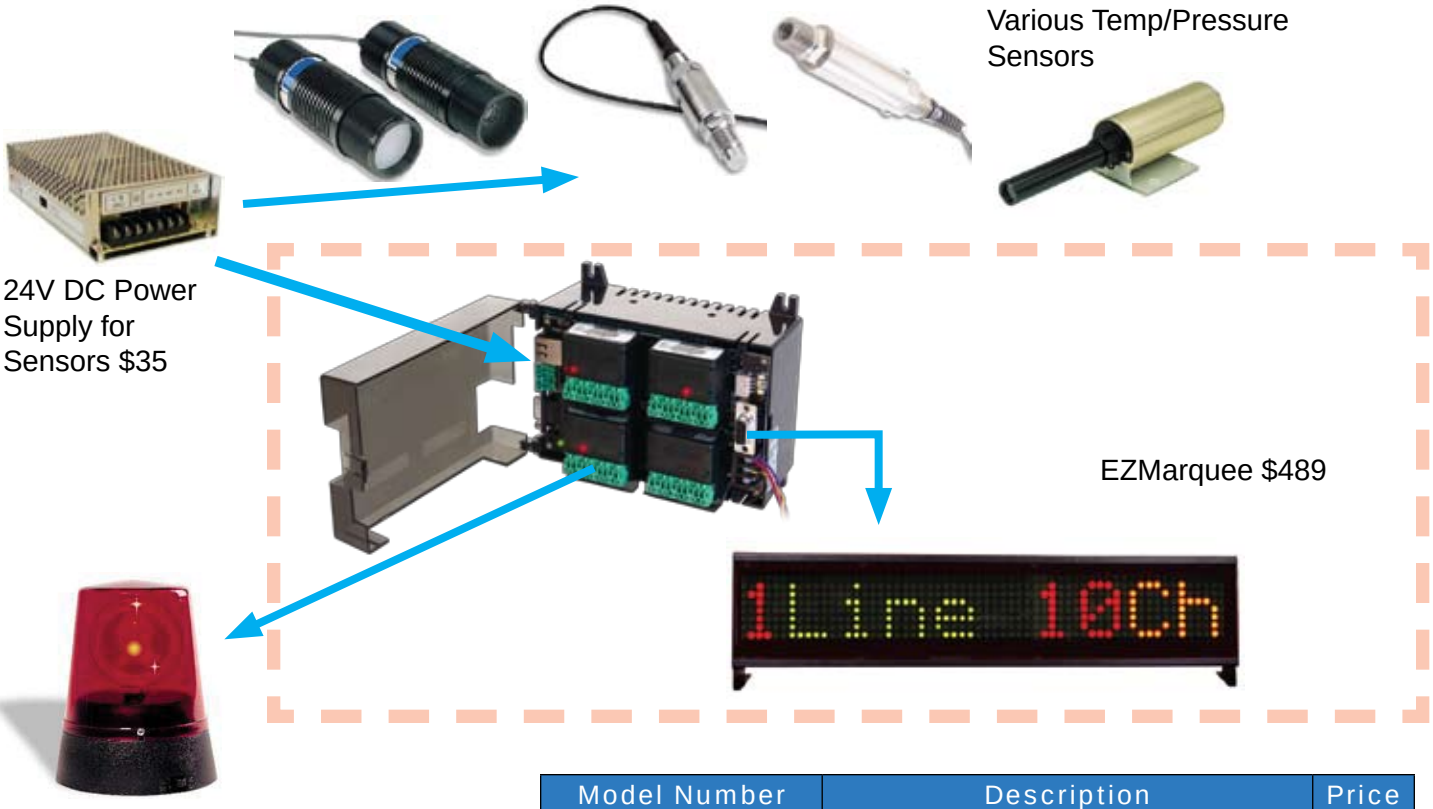
System Cost:

$776



The following stand alone system lets you take 4-20mA current inputs from up to 8 different analog signals. All these sensors will feed input signal to EZPLC which is connected to EZMarquee via RS232/485 communication port. EZPLC can be used to scale all the inputs and display them on 2" RED LED marquee and can also turn Relay outputs to trigger alarms/ sirens etc.

For $776 you are able to take input feed from up to 8 Analog devices (pressure transducer, LVDT etc), where you can display your process variables on a 2" EZMarquee via RS232/422/428. You also get 4 Relay outputs (AC/DC) to trigger sirens/alarms when your process variables go over your set points!



Model Number	Description	Price
EZMT-1L10C	1 Line, 10 Char, TRI-Color LED	$489
EZPLC-A-32	32IO EZPLC Base, AC Powered	$139
EZIO-8ANI	8 Point Analog In	$109
EZIO-4RLO	4 Relay Out Module (AC/DC)	$39
	Total	**$776**

Expand with Ease!

Need to add Thermocouple inputs? Just add
EZIO-4THI module ($139) for up to 4 K Type thermocouples for temperature readout and control.

EZMarquee is Light Weight and Energy Efficient

Half the Weight, 1/3rd of the Power Consumption

Innovate'n'Save™

EZMarquee was designed from the ground up to be SENSIBLE. When designing a marquee, one of the biggest challenges is to manage the power. Even though each LED may need only 10 mA of steady state current or 80-100 mA of peak current, the number of LEDs in even a small marquee is quite large.

For example, a 2 line 20 character tri-color sign has 1920 Red and 1920 Green LEDs and could theoretically draw a steady state current of 3840 x 10 mA or 38 amps, even though not all LEDs will be "on" at the same time. However, you can expect a current of 25 amps.

Most competitive marquees use rather inefficient power supplies and would thus use approximately 200 watts. That is a lot of power which results in a significant increase in internal temperature causing them to design **Thermal Overloads** or sometimes even **Fans** to keep the marquee cool. AB's Inview or Adaptive marquees for example are rated at 55° C but have an automatic **dimdown** at 55° C and an automatic shutdown at 70° C.

Not so with EZMarquee! With AVG's innovation and vertical integration strength, we have designed the EZMarquee to consume 1/3rd of typical power and have used a very efficient power switching system (Patent Pending) without sacrificing the LED luminous intensity. This innovative and efficient design automatically results in reducing the weight of EZMarquee, typically half of competitor's.

RESULT:
NO OVER HEATING
NO THERMAL SHUTDOWN
Full operation up to 60° C Ambient!

Power Consumption & Weight Comparison

2 Lines of 2" Tri-Color, 20 Characters per line

Feature	*EZAutomation* EZMarquee EZMT-2L20C	*Allen-Bradley* InView 2706-P42C	*Adaptive* Alpha 4120C
Power Consumption	55 watts	180 watts	180 watts
Weight	15 lbs	28 lbs	28 lbs

Our competitor's marquee is rated at **55° C Ambient, but** dims at 55° C and **shuts down at 70° C**



Refer to page 133 of AB's "Inview Marquee Message Display" Publication 2706-UM016C-EN-P - May 2004

EZMarquee Maintains Uniform Brightness Over Life! HOW?

The luminous intensity of an LED depends upon the current going through it. It is also a known fact that the luminous intensity degrades over a period of time. If the current flowing through each one of the 3840 LEDs in the competitor's marquee shown to the right varies even as much as 10% and the luminous intensity differs even as much as 20%, the result would be a sign that will look great when first installed but would need replacement within a few years because some of the LEDs would be dimmer than others or simply burnt out.

In order to avoid this dilemma and have the marquee look as good as when first installed, (remember Uticor's reputation in marquees is simply legendary) EZAutomation marquees accomplish this by:

1. Using Matched Luminous Intensity LEDs
2. Carefully controlling the current through each LED
3. Reduce switching current losses to almost nothing
4. Use very efficient, 95% plus, switching power supplies
5. Perform a 24-hour burn-in test under power to weed out marginal LEDs

Uticor/EZMarquee after 10 Years



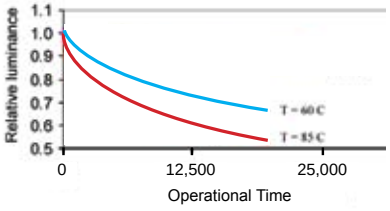


Competitor's Marquee after 10 Years





LED Luminous Intensity Aging Curve



Innovate'n'Save™

EZMarquee™

Product Overview

Standard NEMA 12 Indoor models

Introduction

EZMarquees are the most affordable and sensible marquees for stand alone and plant wide communication displays. Messages displayed on EZMarquee can be made stationary, scrolling, or blinking based on user preference. Also EZMarquees International character support allows you to display messages in multiple languages. Among the many advantages of using EZMarquee are the FREE string generator to populate ASCII strings to be used in your PLC and EZPLC's marquee instruction set which makes connecting to EZMarquee as easy as 1-2-3.

Overview

EZMarquees are offered in 16 different models in RED and TRI-Color LEDs to suite every application starting from $379 for 1 Line 10 Char display all the way to $2,999 for 4 Line 40 Char per line display. They provide a wide variety of communication options and can be interfaced with PLCs, PCs, and embedded controllers. All EZMarquees support ASCII protocol and can also be ordered with Ethernet, DeviceNet, and Profibus communication interface. See the table for all the part number and descriptions.

How to Get Started?

All the EZMarquees come equipped with two communication ports RS 232 and RS422. Also they can be ordered with either Ethernet, DeviceNet, or Profibus based on your communication needs. In order to get started with standard EZMarquee here is all you need:

- EZMarquee
- 110/220 VAC input power
- RS 232/422 connection to your PLC/PC
- EZMarquee String Generator Software

Models Available

The following table provides you with the list of all the 16 available models of EZMarquee. For more detailed information on every model, see the selection guide.

Features:

- 2" to 8" Red or Tri-Color Characters
- International Character Set
- 16 Available Models starting from 1 Line 10 Character display to 4 Line 40 Char per line display
- Ethernet, DeviceNet, and Profibus Interface
- Free ASCII String Generator software
- Nema 12 Industrial enclosure
- Pre-Matched LEDs

Part #:	Description
EZMR-1L10C	1 Line, 10 Char, RED LED
EZMR-1L10C-E	1 Line, 10 Char, RED LED, Ethernet
EZMR-1L10C-D	1 Line, 10 Char, RED LED, DeviceNet
EZMR-1L10C-P	1 Line, 10 Char, RED LED, Profibus
EZMT-1L10C	1 Line, 10 Char, TRI-Color LED
EZMT-1L10C-E	1 Line, 10 Char, TRI-Color LED, Ethernet
EZMT-1L10C-D	1 Line, 10 Char, TRI-Color LED, DeviceNet
EZMT-1L10C-P	1 Line, 10 Char, TRI-Color LED, Profibus
EZMR-2L10C	2 Line, 10 Char, RED LED
EZMR-2L10C-E	2 Line, 10 Char, RED LED, Ethernet
EZMR-2L10C-D	2 Line, 10 Char, RED LED, DeviceNet
EZMR-2L10C-P	2 Line, 10 Char, RED LED, Profibus
EZMT-2L10C	2 Line, 10 Char, TRI-Color LED
EZMT-2L10C-E	2 Line, 10 Char, TRI-Color LED, Ethernet
EZMT-2L10C-D	2 Line, 10 Char, TRI-Color LED, DeviceNet
EZMT-2L10C-P	2 Line, 10 Char, TRI-Color LED, Profibus
EZMR-1L20C	1 Line, 20 Char, RED LED
EZMR-1L20C-E	1 Line, 20 Char, RED LED, Ethernet
EZMR-1L20C-D	1 Line, 20 Char, RED LED, DeviceNet
EZMR-1L20C-P	1 Line, 20 Char, RED LED, Profibus
EZMT-1L20C	1 Line, 20 Char, Tri-Color LED
EZMT-1L20C-E	1 Line, 20 Char, Tri-Color LED, Ethernet
EZMT-1L20C-D	1 Line, 20 Char, Tri-Color LED, DeviceNet
EZMT-1L20C-P	1 Line, 20 Char, Tri-Color LED, Profibus
EZMR-1L40C	1 Line, 40 Char, RED LED
EZMR-1L40C-E	1 Line, 40 Char, RED LED, Ethernet
EZMR-1L40C-D	1 Line, 40 Char, RED LED, DeviceNet
EZMR-1L40C-P	1 Line, 40 Char, RED LED, Profibus
EZMT-1L40C	1 Line, 40 Char, Tri-Color LED
EZMT-1L40C-E	1 Line, 40 Char, Tri-Color LED, Ethernet
EZMT-1L40C-D	1 Line, 40 Char, Tri-Color LED, DeviceNet
EZMT-1L40C-P	1 Line, 40 Char, Tri-Color LED, Profibus

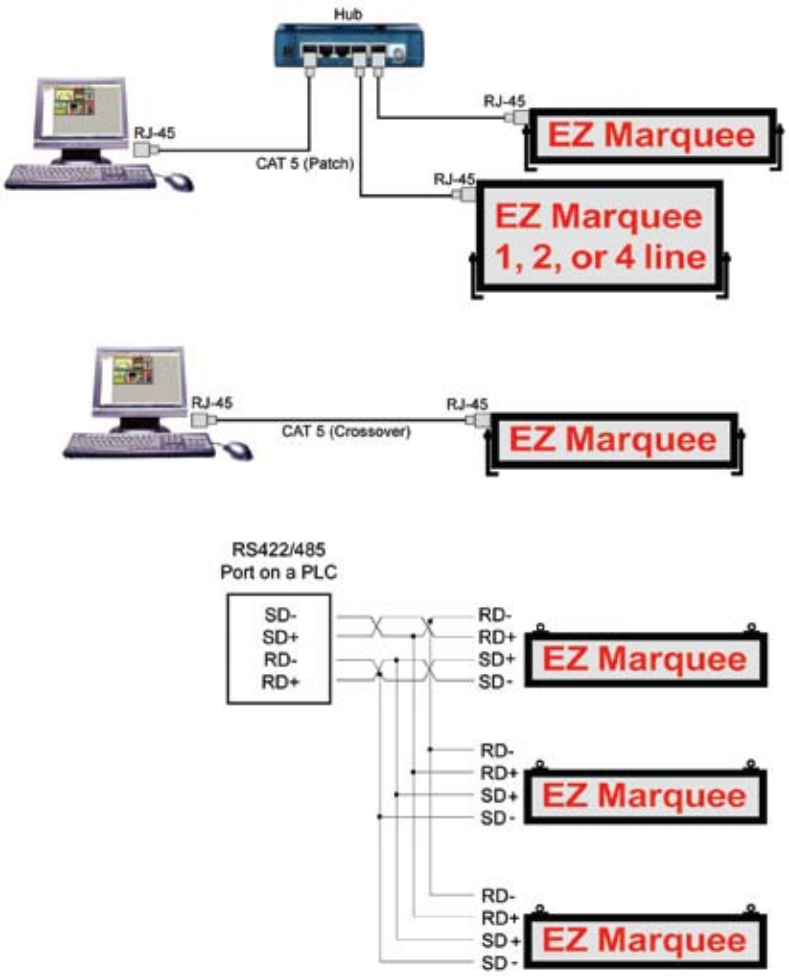
- 24 Hour Burn-in tested
- 100,000 Hours Rated life
- 110/220 VAC Power Input Voltage
- UL, CUL, CE, CSA approved pending
- Stationary, Scrolling, and Blinking Messages
- Mixed Character Sizes on One Line

For High-bright and Outdoor models see page 5-28

Networking:

EZMarquees can be networked using ASCII (RS422), Ethernet, DeviceNet, or Profibus Communication protocols. There are two standard ports on every EZMarquee RS232 and RS422. Models with Ethernet, DeviceNet, and Profibus communication enabled EZMarquees also have 232/422 ports available as well. There are dip switches on the back panel which can be used to set the group number and unit number of every EZMarquee for networking. You are allowed to have 2 groups of 8 marquees each.

Part #:	Description
EZMR-2L20C	2 Line, 20 Char, RED LED
EZMR-2L20C-E	2 Line, 20 Char, RED LED, Ethernet
EZMR-2L20C-D	2 Line, 20 Char, RED LED, DeviceNet
EZMR-2L20C-P	2 Line, 20 Char, RED LED, Profibus
EZMT-2L20C	2 Line, 20 Char, Tri-Color LED
EZMT-2L20C-E	2 Line, 20 Char, Tri-Color LED, Ethernet
EZMT-2L20C-D	2 Line, 20 Char, Tri-Color LED, DeviceNet
EZMT-2L20C-P	2 Line, 20 Char, Tri-Color LED, Profibus
EZMR-2L40C	2 Line, 40 Char, RED LED
EZMR-2L40C-E	2 Line, 40 Char, RED LED, Ethernet
EZMR-2L40C-D	2 Line, 40 Char, RED LED, DeviceNet
EZMR-2L40C-P	2 Line, 40 Char, RED LED, Profibus
EZMT-2L40C	2 Line, 40 Char, Tri-Color LED
EZMT-2L40C-E	2 Line, 40 Char, Tri-Color LED, Ethernet
EZMT-2L40C-D	2 Line, 40 Char, Tri-Color LED, DeviceNet
EZMT-2L40C-P	2 Line, 40 Char, Tri-Color LED, Profibus
EZMR-4L20C	4 Line, 20 Char, RED LED
EZMR-4L20C-E	4 Line, 20 Char, RED LED, Ethernet
EZMR-4L20C-D	4 Line, 20 Char, RED LED, DeviceNet
EZMR-4L20C-P	4 Line, 20 Char, RED LED, Profibus
EZMT-4L20C	4 Line, 20 Char, Tri-Color LED
EZMT-4L20C-E	4 Line, 20 Char, Tri-Color LED, Ethernet
EZMT-4L20C-D	4 Line, 20 Char, Tri-Color LED, DeviceNet
EZMT-4L20C-P	4 Line, 20 Char, Tri-Color LED, Profibus
EZMR-4L40C	4 Line, 40 Char, RED LED
EZMR-4L40C-E	4 Line, 40 Char, RED LED, Ethernet
EZMR-4L40C-D	4 Line, 40 Char, RED LED, DeviceNet
EZMR-4L40C-P	4 Line, 40 Char, RED LED, Profibus
EZMT-4L40C	4 Line, 40 Char, Tri-Color LED
EZMT-4L40C-E	4 Line, 40 Char, Tri-Color LED, Ethernet
EZMT-4L40C-D	4 Line, 40 Char, Tri-Color LED, DeviceNet
EZMT-4L40C-P	4 Line, 40 Char, Tri-Color LED, Profibus



Support:

You can also find detailed information on all the products including EZMarquee on our website at www.ezautomation.net. If you have any more questions you can always call our number one rated technical support line for more information at 1-877-774-EASY (3279) and we will be glad to assist you.

EZMarquee Manual, Programming Software, Cables and Accessories		
Part Number	**Description**	**Price**
EZM-EZMARQUEE-M	Hardware User Manual for EZMarquees. Note: EZM-EZMarquee-M Hardware User Manual included with all EZMarquees.	$15
EZM-GRMT	Grommets for EZMarquee Back Plate - All Models (package of 2)	$8
EZM-BKPLT	Back Plate with Gasket for EZMarquees - All Models. Does not include grommets	$10
EZM-TERM5	RS422/485 Terminal Block for EZMarquee - All Models	$4
EZM-MNTBRK1	Mounting Brakets for EZMarquees - 1L10C and 1L20C Models Only (package of 2)	$16
EZM-MNTBRK2	Mounting Brakets for EZMarquees - 2L10C and 2L20C Models Only (package of 2)	$20

Choosing the Right Model

Different Sizes for Different Applications



2” characters - readable from 100 feet
4” characters - readable from 200 feet
6” characters - readable from 300 feet
8” characters - readable from 400 feet
8” Narrow characters - readable from 400 feet



Display Capacity

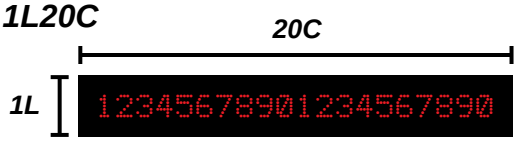
(number of characters shown at one time)

Unit	Char. Size	# of Characters per Line
1L10C	2”	1 line of 10
2L10C	2”	2 lines of 10
2L10C	4”	1 line of 5
1L20C	2”	1 line of 20
1L40C	2”	1 line of 40
2L20C	2”	2 lines of 20
2L20C	4”	1 line of 10
2L40C	2”	2 lines of 40
2L40C	4”	1 line of 20
4L20C	2”	4 lines of 20
4L20C	4”	2 lines of 10
4L20C	6”	1 line of 6
4L20C	8”	1 line of 5
4L20C	8”N	1 line of 10
4L40C	2”	4 lines of 40
4L40C	4”	2 lines of 20
4L40C	6”	1 line of 13
4L40C	8”	1 line of 10
4L40C	8” N	1 line of 20

This table shows all standard sizes and maximum number of lines and characters for each character height supported.

You can display characters of different heights in the same line.

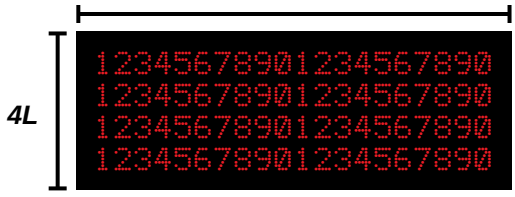
1L20C



1L refers to one one line or “row” that equals 20 characters (each 2” high).

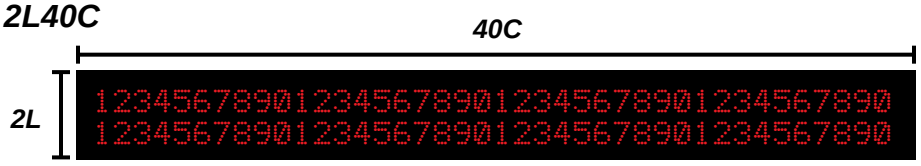
20C refers to 20 characters, all of which are 2” high.

4L20C



EZAutomation’s EZMarquee are available in several sizes. The smallest size is called the 1L10C as shown in the chart on the left. The other sizes are multiples of the smallest size, such as 1L20C (shown above) 2L40C (shown below), etc.

2L40C

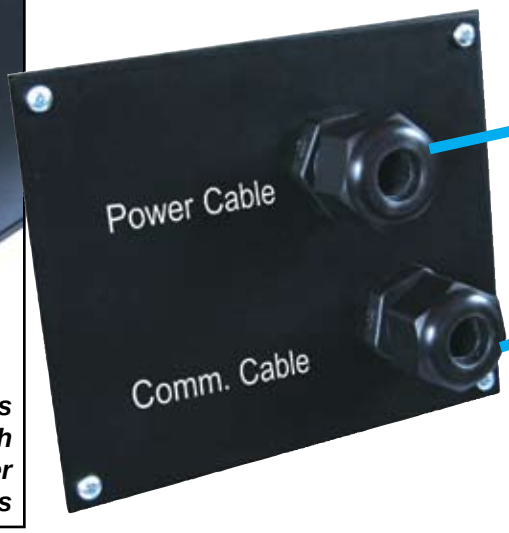


Switch Settings and Connections



EZMarquee's back cover with 2 grommets for power and communications

NEMA 12 gasketed cover plate



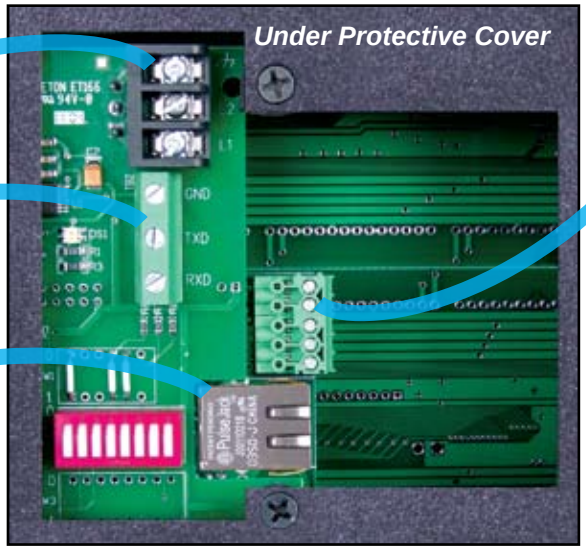
Grommet for Power Cable

Grommet for Communications

RS422/485 Port
Used to send ASCII instructions to other devices

RD-
RD+
SD+
SD-

110/220VAC 50-60Hz
Power Input



RS232 Port
GND
TXD
RXD

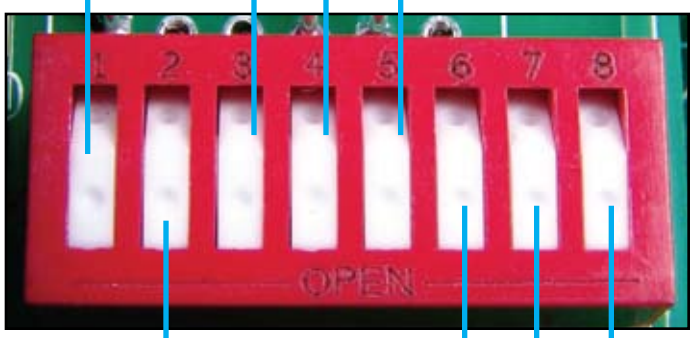
Ethernet Port

Unit Selector

Switches			Unit Number
5	4	3	
0	0	0	1
0	0	1	2
0	1	0	3
0	1	1	4
1	0	0	5
1	0	1	6
1	1	0	7
1	1	1	8

Baud Rate

Switch 1	Baud
0 =	9600
1 =	38.4K



Character Set

Switches			Char. Set
8	7	6	
0	0	0	U.S.
0	0	1	Cyrillic
0	1	0	French
0	1	1	German
1	0	0	English
1	0	1	Danish
1	1	0	Swedish
1	1	1	Kana

Group Selector

Switch 2	Group #
0 =	1
1 =	2

Open = OFF = 0
Closed = ON = 1

16 Models to Fit Every Budget and Application

Whatever your Application...
...We have a Solution!

Whether you need small marquees for individual workstations, larger marquees to communicate across the assembly plant floor, or something in between, an EZMarquee will handle the job.

Your communication needs DO NOT have **to cost a fortune!**

Starting at $379

1 Line 10 Char - Red



Available in High-bright, Outdoor and Outdoor & High-bright models

Starting at $489

1 Line 10 Char - Tri-Color



Available in Outdoor model also

Starting at $599

2 Lines 10 Char - Red



Available in High-bright, Outdoor and Outdoor & High-bright models

Starting at $699

2 Lines 10 Char - Tri-Color



Available in Outdoor model also

Starting at $549

1 Line 20 Char - Red



Available in High-bright, Outdoor and Outdoor & High-bright models

Starting at $649

1 Line 20 Char - Tri-Color



Available in Outdoor model also

Starting at $879

2 Lines 20 Char - Red



Available in High-bright, Outdoor and Outdoor & High-bright models

Starting at $989

2 Lines 20 Char - Tri-Color



Available in Outdoor model also

Starting at $1,599

4 Lines 20 Char - Red



Available in High-bright, Outdoor and Outdoor & High-bright models

Starting at $1,899

4 Lines 20 Char - Tri-Color



Available in Outdoor model also

YES! Now you can buy 40 Character wide marquees at less than half the cost of our competitors!

1 Line 40 Char - Red

Starting at $879



Available in High-bright, Outdoor and Outdoor & High-bright models

1 Line 40 Char - Tri-Color

Starting at $989



Available in Outdoor model also

2 Lines 40 Char - Red

Starting at $1,599



Available in High-bright, Outdoor and Outdoor & High-bright models

2 Lines 40 Char - Tri-Color

Starting at $1,899



Available in Outdoor model also

4 Lines 40 Char - Red

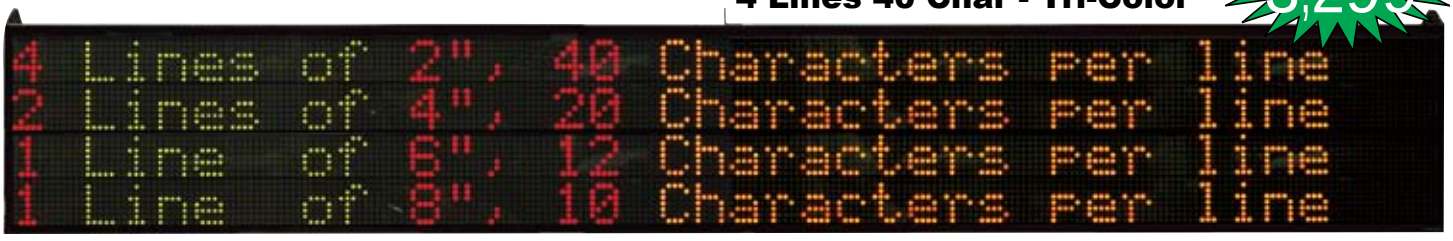
Starting at $2,399



Available in High-bright, Outdoor and Outdoor & High-bright models

4 Lines 40 Char - Tri-Color

Starting at $3,299



Available in Outdoor model also

EZMarquee Selection Guide and Specifications



EZMR-1L10C
EZMRH-1L10C



EZMR-2L10C
EZMRH-2L10C



EZMT-1L10C



EZMT-2L10C

EZMarquee Model Specifications				
Part Number	*EZMR-1L10C* $379 *EZMR-1L10C-E* $478 *EZMR-1L10C-D* $478 *EZMR-1L10C-P* $518 *EZMRH-1L10C* $749 *EZMRH-1L10C-E* $959 *EZMRH-1L10C-D* $959 *EZMRH-1L10C-P* $1039	*EZMT-1L10C* $489 *EZMT-1L10C-E* $588 *EZMT-1L10C-D* $588 *EZMT-1L10C-P* $628	*EZMR-2L10C* $599 *EZMR-2L10C-E* $698 *EZMR-2L10C-D* $698 *EZMR-2L10C-P* $728 *EZMRH-2L10C* $1199 *EZMRH-2L10C-E* $1399 *EZMRH-2L10C-D* $1399 *EZMRH-2L10C-P* $1459	*EZMT-2L10C* $699 *EZMT-2L10C-E* $798 *EZMT-2L10C-D* $798 *EZMT-2L10C-P* $828
Display Type for Indoor	RED LED	TRI-Color LED	RED LED	TRI-Color LED
Display Type for "H"	RED Sunlight Readable		RED Sunlight Readable	
Specification	1 Line of 10 Char (2")		2 Lines of 10 Char (2")	
Max. Viewable Distance	100 Feet with 2" Characters		200 Feet with 4" Characters	
Power Consumption	8 watts	14 watts	15 watts	28 watts
Agency Approvals	UL, CUL, CE, pending			
Enclosure	NEMA 4X			
Operating Temperature	0° to 60° C Ambient			
Storage Temperature	-40° to 95° C Ambient			
Humidity	10% to 95% RH, Non-Condensing			
Input Power	110/220 VAC, 47-63Hz			
Electrical Interference	NEMA ICS 2-230 Showering Arc Test			
Electrical Tolerance	ANSI C37.90a-1974 (SWC) Surge With-Stand Capability Test			
Vibration	5 - 55 Hz 2G for 2 hours in the X, Y, and Z axis			
Shock	10G for under 12ms in the X, Y, and Z axis			
Serial Communications	Port 1 RS232; Port 2 RS422/485			
External Dimensions	18.9" x 4.8" x 2.8" (479.25 x 121.43 x 69.85mm)		18.9" x 6.2" x 2.8" (479.25 x 156.13 x 69.85mm)	
Weight	2.8 lbs	3 lbs	5 lbs	5.2 lbs

EZMarquee Selection Guide and Specifications



EZMR-1L10C-OUT
EZMRH-1L10C-OUT



EZMR-2L10C-OUT
EZMRH-2L10C-OUT



EZMT-1L10C-OUT



EZMT-2L10C-OUT

EZMarquee Model Specifications				
Part Number	*EZMR-1L10C-OUT* $749 *EZMR-1L10C-E-OUT* $959 *EZMR-1L10C-D-OUT* $959 *EZMR-1L10C-P-OUT* $1039 *EZMRH-1L10C-OUT* $1139 *EZMRH-1L10C-E-OUT* $1439 *EZMRH-1L10C-D-OUT* $1439 *EZMRH-1L10C-P-OUT* $1559	*EZMT-1L10C-OUT* $978 *EZMT-1L10C-E-OUT* $1179 *EZMT-1L10C-D-OUT* $1179 *EZMT-1L10C-P-OUT* $1259	*EZMR-2L10C-OUT* $1199 *EZMR-2L10C-E-OUT* $1399 *EZMR-2L10C-D-OUT* $1399 *EZMR-2L10C-P-OUT* $1459 *EZMRH-2L10C-OUT* $1799 *EZMRH-2L10C-E-OUT* $2099 *EZMRH-2L10C-D-OUT* $2099 *EZMRH-2L10C-P-OUT* $2189	*EZMT-2L10C-OUT* $1398 *EZMT-2L10C-E-OUT* $1599 *EZMT-2L10C-D-OUT* $1599 *EZMT-2L10C-P-OUT* $1659
Outdoor Model	RED LED	TRI-Color LED	RED LED	TRI-Color LED
High-bright Model	RED Sunlight Readable		RED Sunlight Readable	
Specification	1 Line of 10 Char (2”)		2 Lines of 10 Char (2”)	
Max. Viewable Distance	100 Feet with 2” Characters		200 Feet with 4” Characters	
Power	8 watts	14 watts	15 watts	28 watts
Approvals	UL, CUL, CE, pending			
Enclosure	NEMA 4X			
Operating Temp.	0° to 60° C Ambient			
Storage Temp.	-40° to 95° C Ambient			
Humidity	10% to 95% RH, Non-Condensing			
Input Power	110/220 VAC, 47-63Hz			
Electrical Interference	NEMA ICS 2-230 Showering Arc Test			
Electrical Tolerance	ANSI C37.90a-1974 (SWC) Surge With-Stand Capability Test			
Vibration	5 - 55 Hz 2G for 2 hours in the X, Y, and Z axis			
Shock	10G for under 12ms in the X, Y, and Z axis			
Serial Comm.	Port 1 RS232; Port 2 RS422/485			
External Dim.	18.9” x 4.8” x 2.8” (479.25 x 121.43 x 69.85mm)		18.9” x 6.2” x 2.8” (479.25 x 156.13 x 69.85mm)	
Weight	2.8 lbs	3 lbs	5 lbs	5.2 lbs

EZMarquee **Selection Guide and Specifications**



EZMR-1L20C
EZMRH-1L20C



EZMT-1L20C



EZMR-1L40C
EZMRH-1L40C



EZMT-1L40C

EZMarquee Model Specifications				
Part Number	*EZMR-1L20C* $549 *EZMR-1L20C-E* $648 *EZMR-1L20C-D* $648 *EZMR-1L20C-P* $678 *EZMRH-1L20C* $1099 *EZMRH-1L20C-E* $1299 *EZMRH-1L20C-D* $1299 *EZMRH-1L20C-P* $1359	*EZMT-1L20C* $649 *EZMT-1L20C-E* $748 *EZMT-1L20C-D* $748 *EZMT-1L20C-P* $778	*EZMR-1L40C* $879 *EZMR-1L40C-E* $978 *EZMR-1L40C-D* $978 *EZMR-1L40C-P* $1088 *EZMRH-1L40C* $1759 *EZMRH-1L40C-E* $1959 *EZMRH-1L40C-D* $1959 *EZMRH-1L40C-P* $2019	*EZMT-1L40C* $989 *EZMT-1L40C-E* $1088 *EZMT-1L40C-D* $1088 *EZMT-1L40C-P* $1138
Display for Indoor	RED LED	TRI-Color LED	RED LED	TRI-Color LED
Display for "H"	RED Sunlight Readable		RED Sunlight Readable	
Specification	1 Line of 20 Char (2")		1 Lines of 40 Char (2")	
Max. Viewable Distance	100 Feet with 2" Characters			
Power	15 watts	28 watts	30 watts	60 watts
Approvals	UL, CUL, CE, pending			
Enclosure	NEMA 4X			
Operating Temp.	0° to 60° C Ambient			
Storage Temp.	-40° to 95° C Ambient			
Humidity	10% to 95% RH, Non-Condensing			
Input Power	110/220 VAC, 47-63Hz			
Electrical Interference	NEMA ICS 2-230 Showering Arc Test			
Electrical Tolerance	ANSI C37.90a-1974 (SWC) Surge With-Stand Capability Test			
Vibration	5 - 55 Hz 2G for 2 hours in the X, Y, and Z axis			
Shock	10G for under 12ms in the X, Y, and Z axis			
Serial Comm.	Port 1 RS232; Port 2 RS422/485			
External Dim.	36.9 "x 4.8" x 2.8" (936.44 x 121.43 x 69.85mm)		72.1" x 5.4" x 2.8" (1831.31 x 106.35 x 69.85mm)	
Weight	4.5 lbs	4.8 lbs	8 lbs	8.5 lbs

EZMarquee **Selection Guide and Specifications**



EZMR-1L20C-OUT
EZMRH-1L20C-OUT



EZMT-1L20COUT



EZMR-1L40C-OUT
EZMRH-1L40C-OUT



EZMT-1L40C-OUT

EZMarquee Model Specifications				
Part Number	*EZMR-1L20C-OUT* $1099 *EZMR-1L20C-E-OUT* $1299 *EZMR-1L20C-D-OUT* $1299 *EZMR-1L20C-P-OUT* $1359 *EZMRH-1L20C-OUT* $1649 *EZMRH-1L20C-E-OUT* $1949 *EZMRH-1L20C-D-OUT* $1949 *EZMRH-1L20C-P-OUT* $2039	*EZMT-1L20C-OUT* $1298 *EZMT-1L20C-E-OUT* $1499 *EZMT-1L20C-D-OUT* $1499 *EZMT-1L20C-P-OUT* $1559	*EZMR-1L40C-OUT* $1759 *EZMR-1L40C-E-OUT* $1959 *EZMR-1L40C-D-OUT* $1959 *EZMR-1L40C-P-OUT* $2019 *EZMRH-1L40C-OUT* $2639 *EZMRH-1L40C-E-OUT* $2939 *EZMRH-1L40C-D-OUT* $2939 *EZMRH-1L40C-P-OUT* $3029	*EZMT-1L40C-OUT* $1978 *EZMT-1L40C-E-OUT* $2179 *EZMT-1L40C-D-OUT* $2179 *EZMT-1L40C-P-OUT* $2279
Outdoor Model	RED LED	TRI-Color LED	RED LED	TRI-Color LED
High-bright Model	RED Sunlight Readable		RED Sunlight Readable	
Specification	1 Line of 20 Char (2")		1 Lines of 40 Char (2")	
Max. Viewable Distance	100 Feet with 2" Characters			
Power	15 watts	28 watts	30 watts	60 watts
Approvals	UL, CUL, CE, pending			
Enclosure	NEMA 4X			
Operating Temp.	0° to 60° C Ambient			
Storage Temp.	-40° to 95° C Ambient			
Humidity	10% to 95% RH, Non-Condensing			
Input Power	110/220 VAC, 47-63Hz			
Electrical Interference	NEMA ICS 2-230 Showering Arc Test			
Electrical Tolerance	ANSI C37.90a-1974 (SWC) Surge With-Stand Capability Test			
Vibration	5 - 55 Hz 2G for 2 hours in the X, Y, and Z axis			
Shock	10G for under 12ms in the X, Y, and Z axis			
Serial Comm.	Port 1 RS232; Port 2 RS422/485			
External Dim.	36.9 "x 4.8" x 2.8" (936.44 x 121.43 x 69.85mm)		72.1" x 5.4" x 2.8" (1831.31 x 106.35 x 69.85mm)	
Weight	4.5 lbs	4.8 lbs	8 lbs	8.5 lbs

EZMarquee **Selection Guide and Specifications**



EZMR-2L20C *EZMRH-2L20C*



EZMT-2L20C



EZMR-2L40C *EZMRH-2L20C*



EZMT-2L40C

EZMarquee Model Specifications				
Part Number	*EZMR-2L20C* $879 *EZMR-2L20C-E* $978 *EZMR-2L20C-D* $978 *EZMR-2L20C-P* $1018 *EZMRH-2L20C* $1759 *EZMRH-2L20C-E* $1959 *EZMRH-2L20C-D* $1959 *EZMRH-2L20C-P* $2039	*EZMT-2L20C* $989 *EZMT-2L20C-E* $1088 *EZMT-2L20C-D* $1088 *EZMT-2L20C-P* $1128	*EZMR-2L40C* $1599 *EZMR-2L40C-E* $1698 *EZMR-2L40C-D* $1698 *EZMR-2L40C-P* $1728 *EZMRH-2L40C* $3199 *EZMRH-2L40C-E* $3399 *EZMRH-2L40C-D* $3399 *EZMRH-2L40C-P* $3459	*EZMT-2L40C* $1899 *EZMT-2L40C-E* $1998 *EZMT-2L40C-D* $1998 *EZMT-2L40C-P* $2028
Display for Indoor	RED LED	TRI-Color LED	RED LED	TRI-Color LED
Display for "H'	RED Sunlight Readable		RED Sunlight Readable	
Specification	2 Lines of 20 Char (2")		2 Lines of 40 Char (2")	
Max. Viewable Distance	200 Feet with 4" Characters			
Power	30 watts	55 watts	54 watts	100 watts
Approvals	UL, CUL, CE **			
Enclosure	NEMA 4X			
Operating Temp.	0° to 60° C Ambient			
Storage Temp.	-40° to 95° C Ambient			
Humidity	10% to 95% RH, Non-Condensing			
Input Power	110/220 VAC, 47-63Hz			
Electrical Interference	NEMA ICS 2-230 Showering Arc Test			
Electrical Tolerance	ANSI C37.90a-1974 (SWC) Surge With-Stand Capability Test			
Vibration	5 - 55 Hz 2G for 2 hours in the X, Y, and Z axis			
Shock	10G for under 12ms in the X, Y, and Z axis			
Serial Comm.	RS232/422/485			
External Dim.	36.1" x 11.7 "x 2.7" (936.44 x 156.13 x 69.85mm)		72.1" x 11.7" x 2.8" (1831.31 x 144.02 x 69.85mm)	
Weight	8 lbs	8.5 lbs	15 lbs	16 lbs

EZMarquee **Selection Guide and Specifications**



EZMR-2L20C-OUT *EZMRH-2L20C-OUT*



EZMT-2L20C-OUT



EZMR-2L40C-OUT *EZMRH-2L40C-OUT*



EZMT-2L40C-OUT

EZMarquee Model Specifications				
Part Number	*EZMR-2L20C-OUT* $1759 *EZMR-2L20C-E-OUT* $1959 *EZMR-2L20C-D-OUT* $1959 *EZMR-2L20C-P-OUT* $2039 *EZMRH-2L20C-OUT* $2639 *EZMRH-2L20C-E-OUT* $2939 *EZMRH-2L20C-D-OUT* $2939 *EZMRH-2L20C-P-OUT* $3059	*EZMT-2L20C-OUT* $1978 *EZMT-2L20C-E-OUT* $2179 *EZMT-2L20C-D-OUT* $2179 *EZMT-2L20C-P-OUT* $2259	*EZMR-2L40C-OUT* $3199 *EZMR-2L40C-E-OUT* $3399 *EZMR-2L40C-D-OUT* $3399 *EZMR-2L40C-P-OUT* $3459 *EZMRH-2L40C-OUT* $4799 *EZMRH-2L40C-E-OUT* $5099 *EZMRH-2L40C-D-OUT* $5099 *EZMRH-2L40C-P-OUT* $5199	*EZMT-2L40C-OUT* $3798 *EZMT-2L40C-E-OUT* $3999 *EZMT-2L40C-D-OUT* $3999 *EZMT-2L40C-P-OUT* $4059
Ooutdoor Model	RED LED	TRI-Color LED	RED LED	TRI-Color LED
High-bright Model	RED Sunlight Readable		RED Sunlight Readable	
Specification	2 Lines of 20 Char (2")		2 Lines of 40 Char (2")	
Max. View Dist.	200 Feet with 4" Characters			
Power	30 watts	55 watts	54 watts	100 watts
Approvals	UL, CUL, CE **			
Enclosure	NEMA 4X			
Operating Temp.	0° to 60° C Ambient			
Storage Temp.	-40° to 95° C Ambient			
Humidity	10% to 95% RH, Non-Condensing			
Input Power	110/220 VAC, 47-63Hz			
Electrical Interference/Tolerance	NEMA ICS 2-230 Showering Arc Test			
	ANSI C37.90a-1974 (SWC) Surge With-Stand Capability Test			
Vibration	5 - 55 Hz 2G for 2 hours in the X, Y, and Z axis			
Shock	10G for under 12ms in the X, Y, and Z axis			
Serial Comm.	RS232/422/485			
External Dim.	36.1" x 11.7 "x 2.7" (936.44 x 156.13 x 69.85mm)		72.1" x 11.7" x 2.8" (1831.31 x 144.02 x 69.85mm)	
Weight	8 lbs	8.5 lbs	15 lbs	16 lbs

EZMarquee **Selection Guide and Specifications**



EZMR-4L20C *EZMRH-4L20C*



EZMT-4L20C



EZMR-4L40C *EZMRH-4L40C*



EZMT-4L40C

EZMarquee Model Specifications				
Part Number	*EZMR-4L20C* $1599 *EZMR-4L20C-E* $1698 *EZMR-4L20C-D* $1698 *EZMR-4L20C-P* $1728 *EZMRH-4L20C* $3199 *EZMRH-4L20C-E* $3399 *EZMRH-4L20C-D* $3399 *EZMRH-4L20C-P* $3459	*EZMT-4L20C* $1899 *EZMT-4L20C-E* $1998 *EZMT-4L20C-D* $1998 *EZMT-4L20C-P* $2028	*EZMR-4L40C* $2399 *EZMR-4L40C-E* $2498 *EZMR-4L40C-D* $2498 *EZMR-4L40C-P* $2548 *EZMRH-4L40C* $4799 *EZMRH-4L40C-E* $4999 *EZMRH-4L40C-D* $4999 *EZMRH-4L40C-P* $5099	*EZMT-4L40C* $3299 *EZMT-4L40C-E* $3398 *EZMT-4L40C-D* $3398 *EZMT-4L40C-P* $3448
Display for Indoor	RED LED	TRI-Color LED	RED LED	TRI-Color LED
Display for "H"	RED Sunlight Readable		RED Sunlight Readable	
Specification	4 Lines of 20 Char (2")		4 Lines of 40 Char (2")	
Max. View Dist.	400 Feet with 8" Characters			
Power	55 watts	100 watts	100 watts	180 watts
Approvals	UL, CUL, CE pending			
Enclosure	NEMA 4X			
Operating Temp.	0° to 60° C Ambient			
Storage Temp.	-40° to 95° C Ambient			
Humidity	10% to 95% RH, Non-Condensing			
Input Power	110/220 VAC, 47-63Hz			
Electrical Interference/ Tolerance	NEMA ICS 2-230 Showering Arc Test			
	ANSI C37.90a-1974 (SWC) Surge With-Stand Capability Test			
Vibration	5 - 55 Hz 2G for 2 hours in the X, Y, and Z axis			
Shock	10G for under 12ms in the X, Y, and Z axis			
Serial Comm.	Port 1 RS232; Port 2 RS422/485			
External Dim.	36.577" x 11.720" x 2.750" (929.06 x 297.69 x 69.85mm)		72.450" x 11.720" x 2.750" (1840.24 x 297.69 x 69.85mm)	
Weight	15 lbs	16 lbs	30 lbs	32 lbs

EZMarquee **Selection Guide and Specifications**



EZMR-4L20C-OUT *EZMRH-4L20C-OUT*



EZMT-4L20C-OUT



EZMR-4L40C-OUT *EZMRH-4L40C-OUT*



EZMT-4L40C-OUT

EZMarquee Model Specifications				
Part Number	*EZMR-4L20C-OUT* $3199 *EZMR-4L20C-E-OUT* $3399 *EZMR-4L20C-D-OUT* $3399 *EZMR-4L20C-P-OUT* $3459 *EZMRH-4L20C-OUT* $4799 *EZMRH-4L20C-E-OUT* $5099 *EZMRH-4L20C-D-OUT* $5099 *EZMRH-4L20C-P-OUT* $5189	*EZMT-4L20C-OUT* $3798 *EZMT-4L20C-E-OUT* $3999 *EZMT-4L20C-D-OUT* $3999 *EZMT-4L20C-P-OUT* $4059	*EZMR-4L40C-OUT* $4799 *EZMR-4L40C-E-OUT* $4999 *EZMR-4L40C-D-OUT* $4999 *EZMR-4L40C-P-OUT* $5099 *EZMRH-4L40C-OUT* $7199 *EZMRH-4L40C-E-OUT* $7499 *EZMRH-4L40C-D-OUT* $7499 *EZMRH-4L40C-P-OUT* $7649	*EZMT-4L40C-OUT* $6598 *EZMT-4L40C-E-OUT* $6799 *EZMT-4L40C-D-OUT* $6799 *EZMT-4L40C-P-OUT* $6899
Outdoor Model	RED LED	TRI-Color LED	RED LED	TRI-Color LED
High-bright Model	RED Sunlight Readable		RED Sunlight Readable	
Specification	4 Lines of 20 Char (2")		4 Lines of 40 Char (2")	
Max. View Dist.	400 Feet with 8" Characters			
Power	55 watts	100 watts	100 watts	180 watts
Approvals	UL, CUL, CE pending			
Enclosure	NEMA 4X			
Operating Temp.	0° to 60° C Ambient			
Storage Temp.	-40° to 95° C Ambient			
Humidity	10% to 95% RH, Non-Condensing			
Input Power	110/220 VAC, 47-63Hz			
Electrical Interference/Tolerance	NEMA ICS 2-230 Showering Arc Test			
	ANSI C37.90a-1974 (SWC) Surge With-Stand Capability Test			
Vibration	5 - 55 Hz 2G for 2 hours in the X, Y, and Z axis			
Shock	10G for under 12ms in the X, Y, and Z axis			
Serial Comm.	Port 1 RS232; Port 2 RS422/485			
External Dim.	36.577" x 11.720" x 2.750" (929.06 x 297.69 x 69.85mm)		72.450" x 11.720" x 2.750" (1840.24 x 297.69 x 69.85mm)	
Weight	15 lbs	16 lbs	30 lbs	32 lbs

EZMarquee - 1 Line 10 Characters

1 Line 10 Characters - NEMA 12

The 1 Line 10 Char EZMarquee can hold up to a maximum of 10 characters (2") per line and features 1 line of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 12 extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 1 Line 10 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

1 Line 10 Characters feature:

- 1 line of 10 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2"
Characters per Line:	10
Number of Lines:	1
Visibility:	100'



RED Indoor

Model Number	Interface	Price	Del.
EZMR-1L10C	RS232 and RS422/485 only	$379	STK
EZMR-1L10C-E	Ethernet included	$478	3DAY
EZMR-1L10C-D	DeviceNet included	$478	3DAY
EZMR-1L10C-P	Profibus included	$518	3DAY



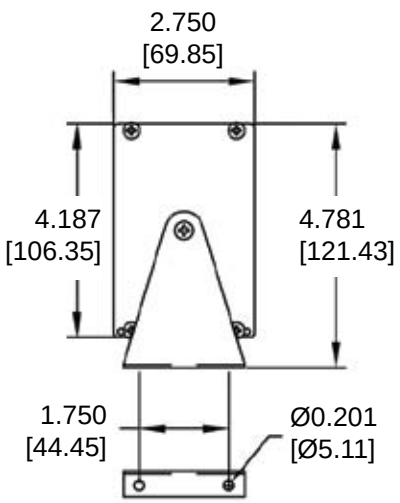
TRI color Indoor

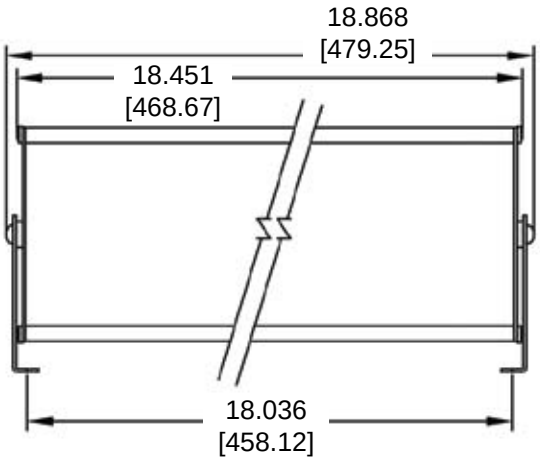
Model Number	Interface	Price	Del.
EZMT-1L10C	RS232 and RS422/485 only	$489	STK
EZMT-1L10C-E	Ethernet included	$588	3DAY
EZMT-1L10C-D	DeviceNet included	$588	3DAY
EZMT-1L10C-P	Profibus included	$628	3DAY

RED High-bright

Model Number	Interface	Price	Del.
EZMRH-1L10C	RS232 and RS422/485 only	$749	STK
EZMRH-1L10C-E	Ethernet included	$959	3DAY
EZMRH-1L10C-D	DeviceNet included	$959	3DAY
EZMRH-1L10C-P	Profibus included	$1039	3DAY

1 Line 10 Characters Dimensions





MOUNTING HOLE CENTERS

EZMarquee - 1 Line 10 Characters

1 Line 10 Characters - NEMA 4X

The 1 Line 10 Char EZMarquee can hold up to a maximum of 10 characters (2") per line and features 1 line of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 4X extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 1 Line 10 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

1 Line 10 Characters feature:

- 1 line of 10 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2"
Characters per Line:	10
Number of Lines:	1
Visibility:	100'



RED Outdoor

Model Number	Interface	Price	Del.
EZMR-1L10C-OUT	RS232 and RS422/485 only	$749	STK
EZMR-1L10C-E-OUT	Ethernet included	$959	3DAY
EZMR-1L10C-D-OUT	DeviceNet included	$959	3DAY
EZMR-1L10C-P-OUT	Profibus included	$1039	3DAY



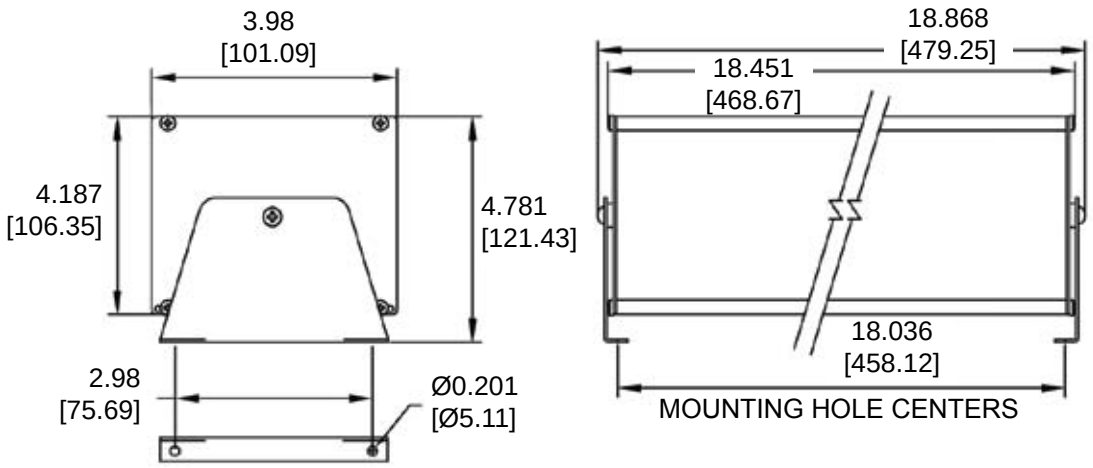
TRI color Outdoor

Model Number	Interface	Price	Del.
EZMT-1L10C-OUT	RS232 and RS422/485 only	$978	STK
EZMT-1L10C-E-OUT	Ethernet included	$1179	3DAY
EZMT-1L10C-D-OUT	DeviceNet included	$1179	3DAY
EZMT-1L10C-P-OUT	Profibus included	$1259	3DAY

RED Outdoor Highbright

Model Number	Interface	Price	Del.
EZMRH-1L10C-OUT	RS232 and RS422/485 only	$1138	STK
EZMRH-1L10C-E-OUT	Ethernet included	$1439	3DAY
EZMRH-1L10C-D-OUT	DeviceNet included	$1439	3DAY
EZMRH-1L10C-P-OUT	Profibus included	$1559	3DAY

1 Line 10 Characters Dimensions



EZMarquee - 2 Lines 10 Characters

2 Lines 10 Characters - NEMA 12

The 2 Line 10 Char EZMarquee can hold up to a maximum of 10 characters (2") per line and features 2 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 12 extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 2 Line 10 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

2 Lines 10 Characters feature:

- 2 lines of 10 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2" / 4"
Characters per Line:	10 / 5
Number of Lines:	2 / 1
Visibility:	100' / 200'



RED Indoor

Model Number	Interface	Price	Del.
EZMR-2L10C	RS232 and RS422/485 only	$599	STK
EZMR-2L10C-E	Ethernet included	$698	3DAY
EZMR-2L10C-D	DeviceNet included	$698	3DAY
EZMR-2L10C-P	Profibus included	$728	3DAY



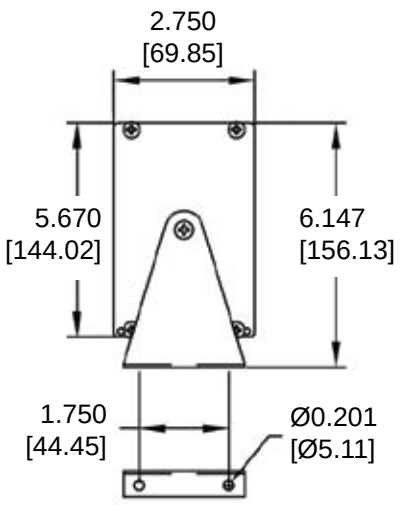
TRI color Indoor

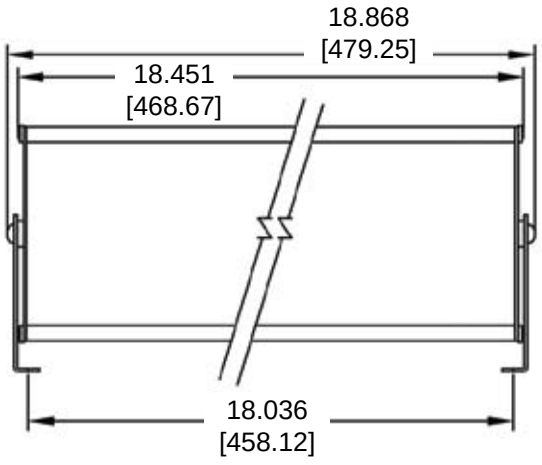
Model Number	Interface	Price	Del.
EZMT-2L10C	RS232 and RS422/485 only	$699	STK
EZMT-2L10C-E	Ethernet included	$798	3DAY
EZMT-2L10C-D	DeviceNet included	$798	3DAY
EZMT-2L10C-P	Profibus included	$828	3DAY

RED High-bright

Model Number	Interface	Price	Del.
EZMRH-2L10C	RS232 and RS422/485 only	$1199	STK
EZMRH-2L10C-E	Ethernet included	$1399	3DAY
EZMRH-2L10C-D	DeviceNet included	$1399	3DAY
EZMRH-2L10C-P	Profibus included	$1459	3DAY

2 Lines 10 Characters Dimensions





MOUNTING HOLE CENTERS

EZMarquee - 2 Lines 10 Characters

2 Lines 10 Characters - NEMA 4X

The 2 Line 10 Char EZMarquee can hold up to a maximum of 10 characters (2") per line and features 2 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 4X extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 2 Line 10 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

2 Lines 10 Characters feature:

- 2 lines of 10 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2" / 4"
Characters per Line:	10 / 5
Number of Lines:	2 / 1
Visibility:	100' / 200'



RED Outdoor

Model Number	Interface	Price	Del.
EZMRH-2L10C	RS232 and RS422/485 only	$1199	STK
EZMRH-2L10C-E	Ethernet included	$1399	3DAY
EZMRH-2L10C-D	DeviceNet included	$1399	3DAY
EZMRH-2L10C-P	Profibus included	$1459	3DAY



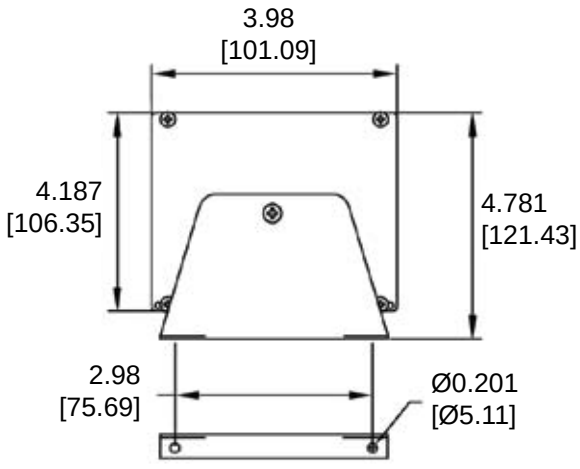
TRI color Outdoor

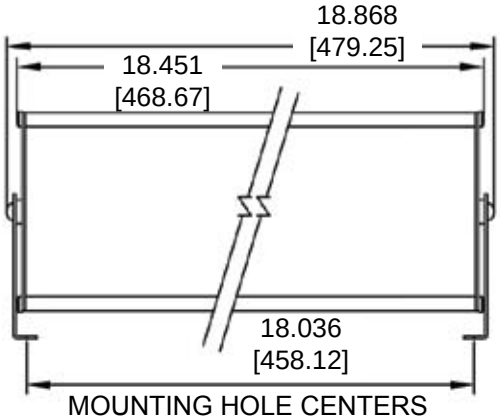
Model Number	Interface	Price	Del.
EZMT-2L10C-OUT	RS232 and RS422/485 only	$1398	STK
EZMT-2L10C-E-OUT	Ethernet included	$1599	3DAY
EZMT-2L10C-D-OUT	DeviceNet included	$1599	3DAY
EZMT-2L10C-P-OUT	Profibus included	$1659	3DAY

RED Outdoor Highbright

Model Number	Interface	Price	Del.
EZMRH-2L10C-OUT	RS232 and RS422/485 only	$1799	STK
EZMRH-2L10C-E-OUT	Ethernet included	$2099	3DAY
EZMRH-2L10C-D-OUT	DeviceNet included	$2099	3DAY
EZMRH-2L10C-P-OUT	Profibus included	$2189	3DAY

2 Lines 10 Characters Dimensions





EZMarquee - 1 Line 20 Characters

1 Line 20 Characters - NEMA 12

The 1 Line 20 Char EZMarquee can hold up to a maximum of 20 characters (2") per line and features 1 line of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 12 extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 1 Line 20 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

Characteristics:

Character Height:	2"
Characters per Line:	20
Number of Lines:	1
Visibility:	100'

1 Line 20 Characters feature:

- 1 line of 10 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below





RED Indoor

Model Number	Interface	Price	Del.
EZMR-1L20C	RS232 and RS422/485 only	$549	STK
EZMR-1L20C-E	Ethernet included	$648	3DAY
EZMR-1L20C-D	DeviceNet included	$648	3DAY
EZMR-1L20C-P	Profibus included	$678	3DAY

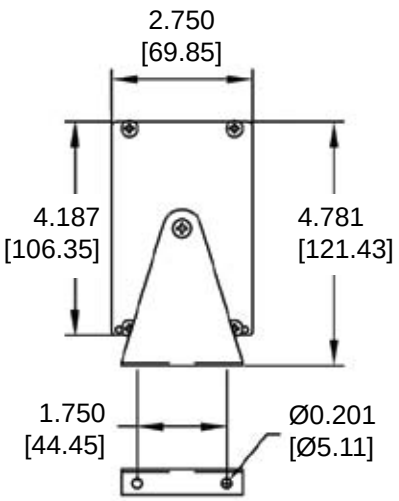
TRI color Indoor

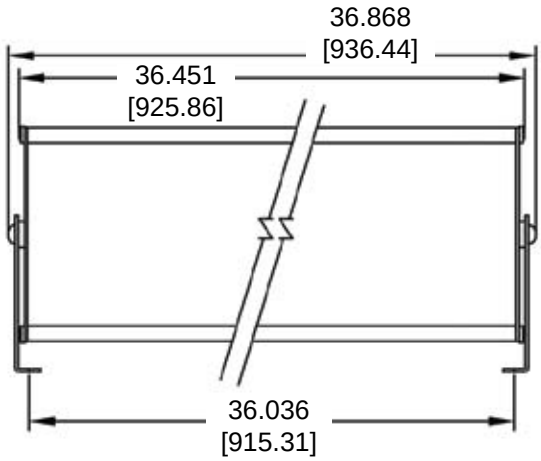
Model Number	Interface	Price	Del.
EZMT-1L20C	RS232 and RS422/485 only	$649	STK
EZMT-1L20C-E	Ethernet included	$748	3DAY
EZMT-1L20C-D	DeviceNet included	$748	3DAY
EZMT-1L20C-P	Profibus included	$778	3DAY

RED High-bright

Model Number	Interface	Price	Del.
EZMRH-1L20C	RS232 and RS422/485 only	$1099	STK
EZMRH-1L20C-E	Ethernet included	$1299	3DAY
EZMRH-1L20C-D	DeviceNet included	$1299	3DAY
EZMRH-1L20C-P	Profibus included	$1359	3DAY

1 Line 20 Characters Dimensions





MOUNTING HOLE CENTERS

EZMarquee - 1 Line 20 Characters

1 Line 20 Characters - NEMA 4X

The 1 Line 20 Char EZMarquee can hold up to a maximum of 20 characters (2") per line and features 1 line of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 4X extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 1 Line 20 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

Characteristics:

Character Height:	2"
Characters per Line:	20
Number of Lines:	1
Visibility:	100'

1 Line 20 Characters feature:

- 1 line of 10 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below





RED Outdoor

Model Number	Interface	Price	Del.
EZMR-1L20C-OUT	RS232 and RS422/485 only	$1099	STK
EZMR-1L20C-E-OUT	Ethernet included	$1299	3DAY
EZMR-1L20C-D-OUT	DeviceNet included	$1299	3DAY
EZMR-1L20C-P-OUT	Profibus included	$1359	3DAY

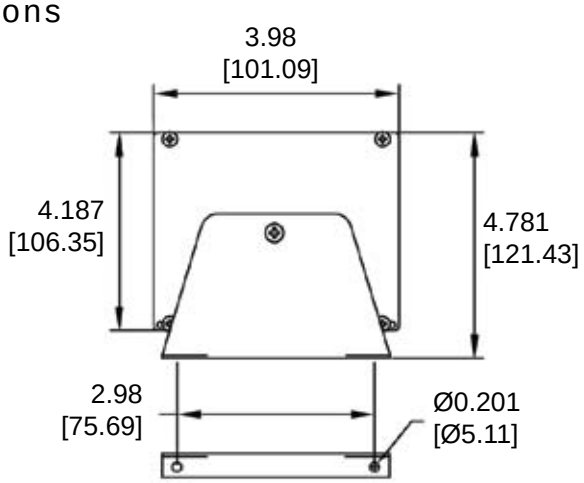
TRI color Outdoor

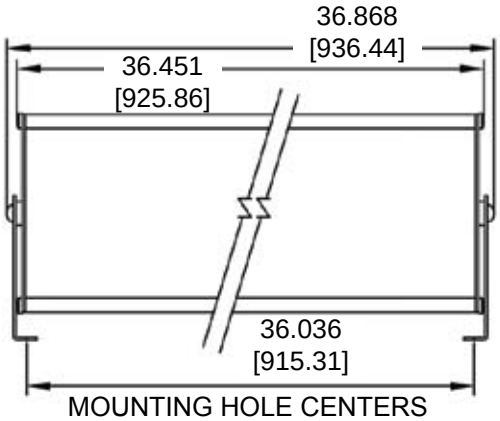
Model Number	Interface	Price	Del.
EZMT-1L20C-OUT	RS232 and RS422/485 only	$1298	STK
EZMT-1L20C-E-OUT	Ethernet included	$1499	3DAY
EZMT-1L20C-D-OUT	DeviceNet included	$1499	3DAY
EZMT-1L20C-P-OUT	Profibus included	$1559	3DAY

RED Outdoor Highbright

Model Number	Interface	Price	Del.
EZMRH-1L20C-OUT	RS232 and RS422/485 only	$1649	STK
EZMRH-1L20C-E-OUT	Ethernet included	$1949	3DAY
EZMRH-1L20C-D-OUT	DeviceNet included	$1949	3DAY
EZMRH-1L20C-P-OUT	Profibus included	$2039	3DAY

1 Line 20 Characters Dimensions





EZMarquee - 2 Lines 20 Characters

2 Lines 20 Characters - NEMA 12

The 2 Line 20 Char EZMarquee can hold up to a maximum of 20 characters (2") per line and features 2 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 12 extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 2 Line 20 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

Characteristics:

Character Height:	2" / 4"
Characters per Line:	20 / 10
Number of Lines:	2 / 1
Visibility:	100' / 200'

2 Lines 20 Characters feature:

- 2 lines of 20 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below





RED Indoor

Model Number	Interface	Price	Del.
EZMR-2L20C	RS232 and RS422/485 only	$879	STK
EZMR-2L20C-E	Ethernet included	$978	3DAY
EZMR-2L20C-D	DeviceNet included	$978	3DAY
EZMR-2L20C-P	Profibus included	$1018	3DAY

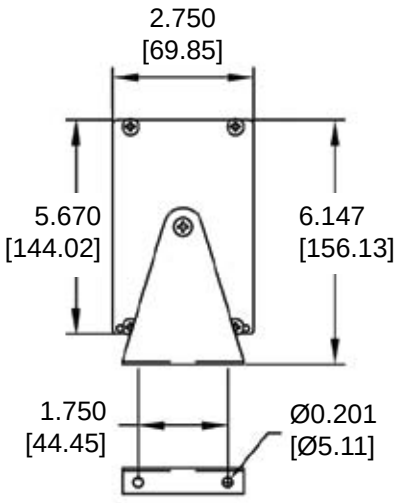
TRI color Indoor

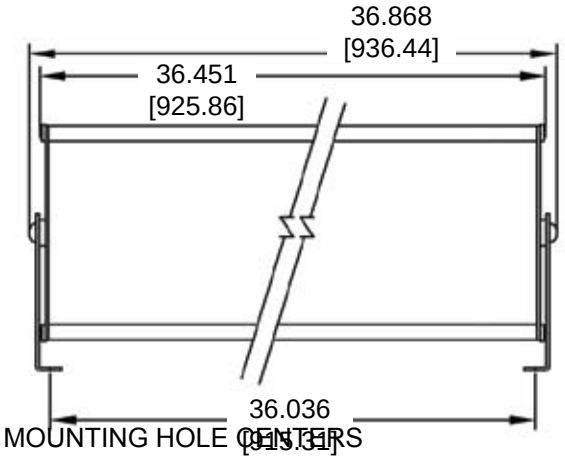
Model Number	Interface	Price	Del.
EZMT-2L20C	RS232 and RS422/485 only	$989	STK
EZMT-2L20C-E	Ethernet included	$1088	3DAY
EZMT-2L20C-D	DeviceNet included	$1088	3DAY
EZMT-2L20C-P	Profibus included	$1128	3DAY

RED High-bright

Model Number	Interface	Price	Del.
EZMRH-2L20C	RS232 and RS422/485 only	$1759	STK
EZMRH-2L20C-E	Ethernet included	$1959	3DAY
EZMRH-2L20C-D	DeviceNet included	$1959	3DAY
EZMRH-2L20C-P	Profibus included	$2039	3DAY

2 Lines 20 Characters Dimensions





EZMarquee - 2 Lines 20 Characters

2 Lines 20 Characters - NEMA 4X

The 2 Line 20 Char EZMarquee can hold up to a maximum of 20 characters (2") per line and features 2 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 4X extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 2 Line 20 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

Characteristics:

Character Height:	2" / 4"
Characters per Line:	20 / 10
Number of Lines:	2 / 1
Visibility:	100' / 200'

2 Lines 20 Characters feature:

- 2 lines of 20 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below





RED Outdoor

Model Number	Interface	Price	Del.
EZMR-2L20C-OUT	RS232 and RS422/485 only	$1759	STK
EZMR-2L20C-E-OUT	Ethernet included	$1959	3DAY
EZMR-2L20C-D-OUT	DeviceNet included	$1959	3DAY
EZMR-2L20C-P-OUT	Profibus included	$2039	3DAY

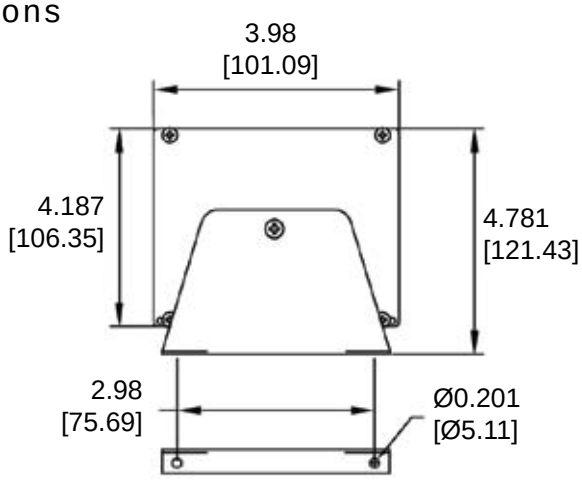
TRI color Outdoor

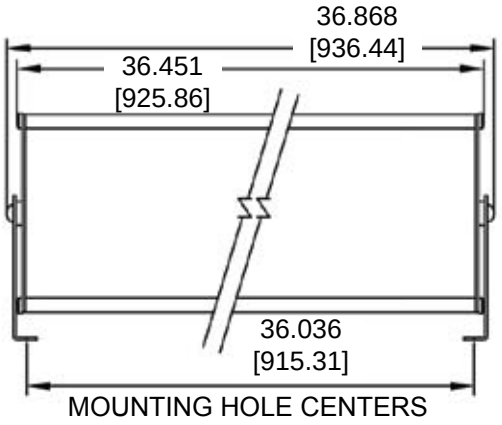
Model Number	Interface	Price	Del.
EZMT-2L20C-OUT	RS232 and RS422/485 only	$1978	STK
EZMT-2L20C-E-OUT	Ethernet included	$2179	3DAY
EZMT-2L20C-D-OUT	DeviceNet included	$2179	3DAY
EZMT-2L20C-P-OUT	Profibus included	$2259	3DAY

RED Outdoor Highbright

Model Number	Interface	Price	Del.
EZMRH-2L20C-OUT	RS232 and RS422/485 only	$2639	STK
EZMRH-2L20C-E-OUT	Ethernet included	$2939	3DAY
EZMRH-2L20C-D-OUT	DeviceNet included	$2939	3DAY
EZMRH-2L20C-P-OUT	Profibus included	$3059	3DAY

2 Lines 20 Characters Dimensions





EZMarquee - 4 Lines 20 Characters

4 Lines 20 Characters - NEMA 12

The 4 Line 20 Char EZMarquee can hold up to a maximum of 20 characters (2") per line and features 4 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 12 extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 4 Line 20 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

4 Lines 20 Characters feature:

- 4 lines of 20 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2" / 4" / 6" / 8"
Characters per Line:	20 / 10 / 6 / 5
Number of Lines:	4 / 2 / 1 / 1
Visibility:	100'/200'/300'/400'





RED Indoor

Model Number	Interface	Price	Del.
EZMR-4L20C	RS232 and RS422/485 only	$1,599	STK
EZMR-4L20C-E	Ethernet included	$1,698	3DAY
EZMR-4L20C-D	DeviceNet included	$1,698	3DAY
EZMR-4L20C-P	Profibus included	$1,728	3DAY

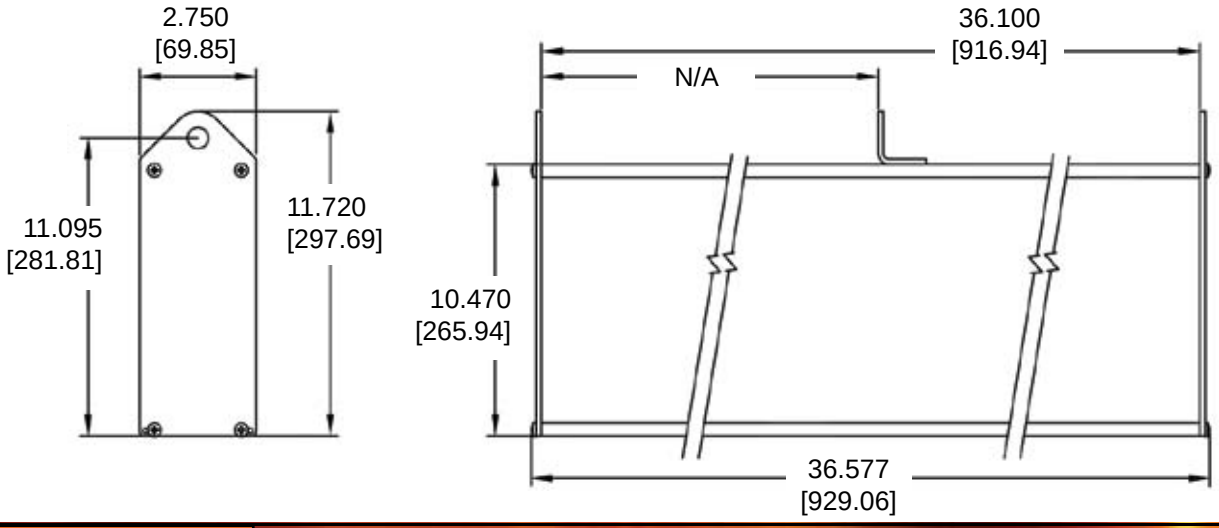
TRI color Indoor

Model Number	Interface	Price	Del.
EZMT-4L20C	RS232 and RS422/485 only	$1,899	STK
EZMT-4L20C-E	Ethernet included	$1,998	3DAY
EZMT-4L20C-D	DeviceNet included	$1,998	3DAY
EZMT-4L20C-P	Profibus included	$2,028	3DAY

RED High-bright

Model Number	Interface	Price	Del.
EZMRH-4L20C	RS232 and RS422/485 only	$3199	STK
EZMRH-4L20C-E	Ethernet included	$3399	3DAY
EZMRH-4L20C-D	DeviceNet included	$3399	3DAY
EZMRH-4L20C-P	Profibus included	$3459	3DAY

4 Lines 20 Characters
Dimensions



EZMarquee - 4 Lines 20 Characters

4 Lines 20 Characters - NEMA 4X

The 4 Line 20 Char EZMarquee can hold up to a maximum of 20 characters (2") per line and features 4 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 4X extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 4 Line 20 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

4 Lines 20 Characters feature:

- 4 lines of 20 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2" / 4" / 6" / 8"
Characters per Line:	20 / 10 / 6 / 5
Number of Lines:	4 / 2 / 1 / 1
Visibility:	100'/200'/300'/400'





RED Outdoor

Model Number	Interface	Price	Del.
EZMR-4L20C-OUT	RS232 and RS422/485 only	$3199	STK
EZMR-4L20C-E-OUT	Ethernet included	$3399	3DAY
EZMR-4L20C-D-OUT	DeviceNet included	$3399	3DAY
EZMR-4L20C-P-OUT	Profibus included	$3459	3DAY

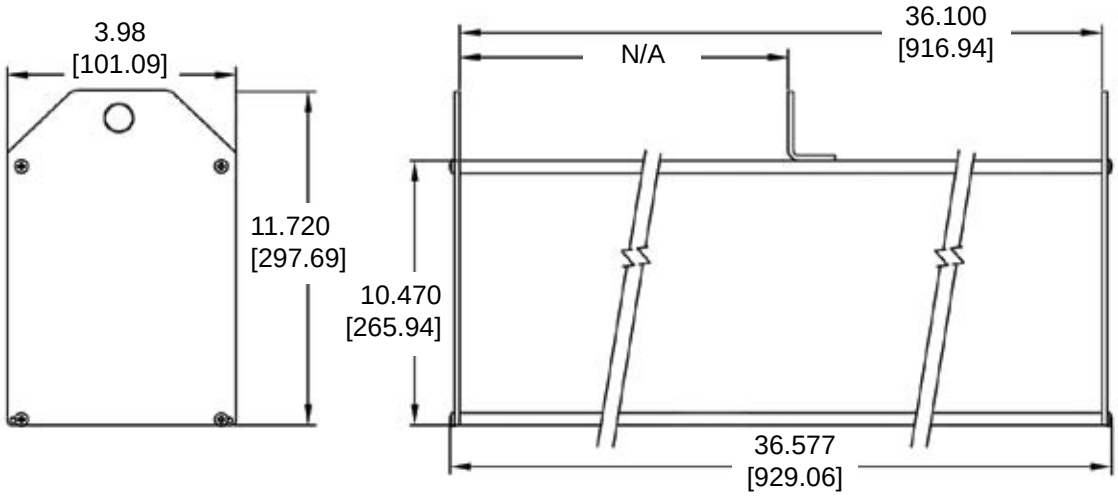
TRI color Outdoor

Model Number	Interface	Price	Del.
EZMT-4L20C-OUT	RS232 and RS422/485 only	$3798	STK
EZMT-4L20C-E-OUT	Ethernet included	$3999	3DAY
EZMT-4L20C-D-OUT	DeviceNet included	$3999	3DAY
EZMT-4L20C-P-OUT	Profibus included	$4059	3DAY

RED Outdoor Highbright

Model Number	Interface	Price	Del.
EZMR-H4L20C-OUT	RS232 and RS422/485 only	$4799	STK
EZMRH-4L20C-E-OUT	Ethernet included	$5099	3DAY
EZMRH-4L20C-D-OUT	DeviceNet included	$5099	3DAY
EZMRH-4L20C-P-OUT	Profibus included	$5189	3DAY

4 Lines 20 Characters
Dimensions



EZMarquee - 1 Line 40 Characters

1 Line 40 Characters - NEMA 12

The 1 Line 40 Char EZMarquee can hold up to a maximum of 40 characters (2") per line and features 1 line of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 12 extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 1 Line 40 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

Characteristics:

Character Height:	2"
Characters per Line:	40
Number of Lines:	1
Visibility:	100'

1 Line 40 Characters feature:

- 1 line of 40 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below



RED Indoor

Model Number	Interface	Price	Del.
EZMR-1L40C	RS232 and RS422/485 only	$879	STK
EZMR-1L40C-E	Ethernet included	$978	3DAY
EZMR-1L40C-D	DeviceNet included	$978	3DAY
EZMR-1L40C-P	Profibus included	$1088	3DAY

RED High-bright

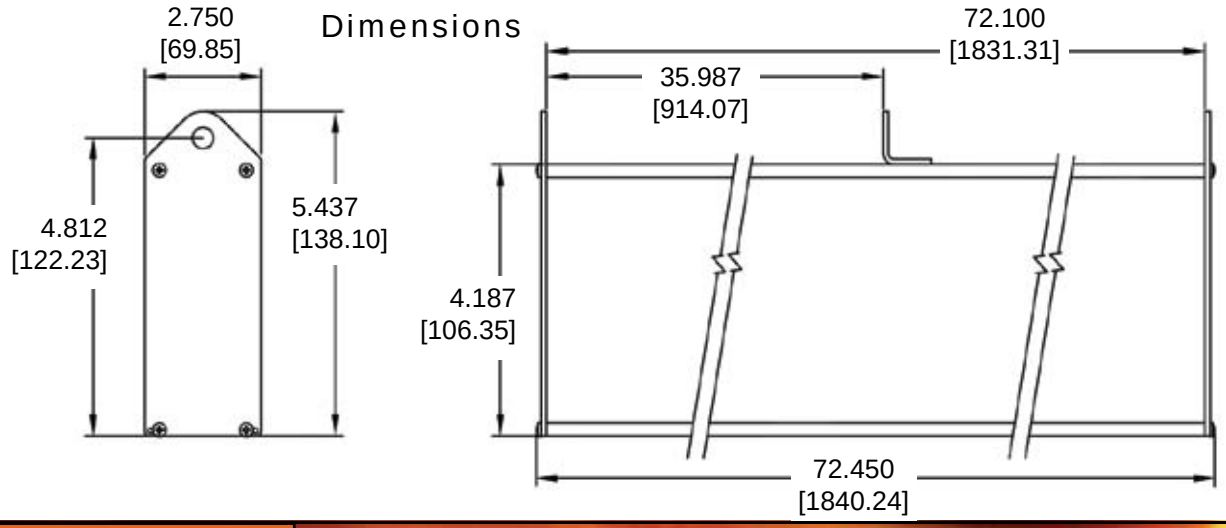
Model Number	Interface	Price	Del.
EZMRH-1L40C	RS232 and RS422/485 only	$1759	STK
EZMRH-1L40C-E	Ethernet included	$1959	3DAY
EZMRH-1L40C-D	DeviceNet included	$1959	3DAY
EZMRH-1L40C-P	Profibus included	$2019	3DAY



TRI color Indoor

Model Number	Interface	Price	Del.
EZMT-1L40C	RS232 and RS422/485 only	$989	STK
EZMT-1L40C-E	Ethernet included	$1088	3DAY
EZMT-1L40C-D	DeviceNet included	$1088	3DAY
EZMT-1L40C-P	Profibus included	$1138	3DAY

1 Line 40 Characters
Dimensions



EZMarquee - 1 Line 40 Characters

1 Line 40 Characters - NEMA 4X

The 1 Line 40 Char EZMarquee can hold up to a maximum of 40 characters (2") per line and features 1 line of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 4X extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 1 Line 40 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

1 Line 40 Characters feature:

- 1 line of 40 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2"
Characters per Line:	40
Number of Lines:	1
Visibility:	100'



RED Outdoor

Model Number	Interface	Price	Del.
EZMR-1L40C-OUT	RS232 and RS422/485 only	$1759	STK
EZMR-1L40C-E-OUT	Ethernet included	$1959	3DAY
EZMR-1L40C-D-OUT	DeviceNet included	$1959	3DAY
EZMR-1L40C-P-OUT	Profibus included	$2019	3DAY

RED Outdoor Highbright

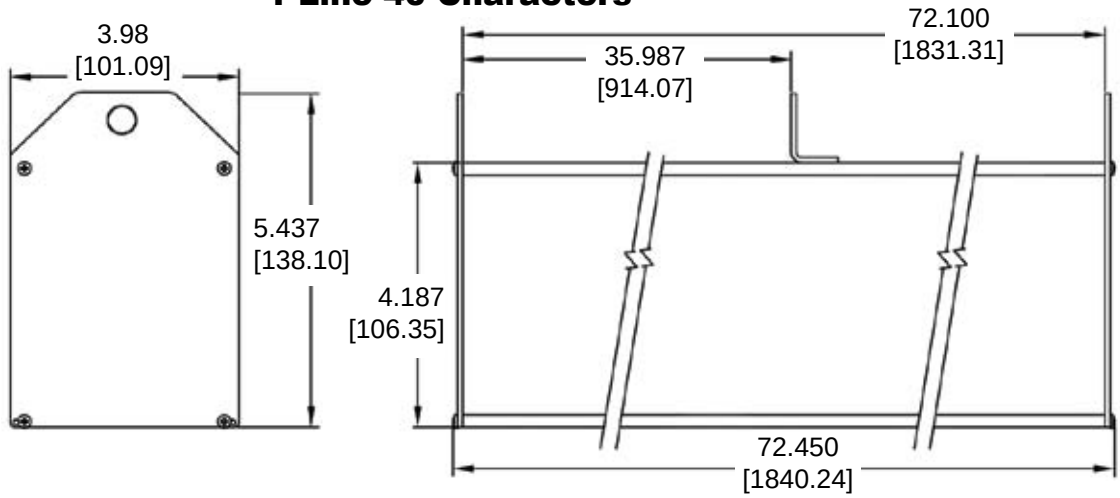
Model Number	Interface	Price	Del.
EZMRH-1L40C-OUT	RS232 and RS422/485 only	$2639	STK
EZMRH-1L40C-E-OUT	Ethernet included	$2939	3DAY
EZMRH-1L40C-D-OUT	DeviceNet included	$2939	3DAY
EZMRH-1L40C-P-OUT	Profibus included	$3029	3DAY



TRI color Outdoor

Model Number	Interface	Price	Del.
EZMT-1L40C-OUT	RS232 and RS422/485 only	$1978	STK
EZMT-1L40C-E-OUT	Ethernet included	$2179	3DAY
EZMT-1L40C-D-OUT	DeviceNet included	$2179	3DAY
EZMT-1L40C-P-OUT	Profibus included	$2279	3DAY

1 Line 40 Characters



EZMarquee - 2 Lines 40 Characters

2 Lines 40 Characters - NEMA 12

The 2 Line 40 Char EZMarquee can hold up to a maximum of 40 characters (2") per line and features 2 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 12 extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 2 Line 40 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

2 Lines 40 Characters feature:

- 2 lines of 40 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2" / 4"
Characters per Line:	40 / 20
Number of Lines:	2 / 1
Visibility:	100' / 200'



RED Indoor

Model Number	Interface	Price	Del.
EZMR-2L40C	RS232 and RS422/485 only	$1,599	3DAY
EZMR-2L40C-E	Ethernet included	$1,698	3DAY
EZMR-2L40C-D	DeviceNet included	$1,698	3DAY
EZMR-2L40C-P	Profibus included	$1,728	3DAY

RED High-bright

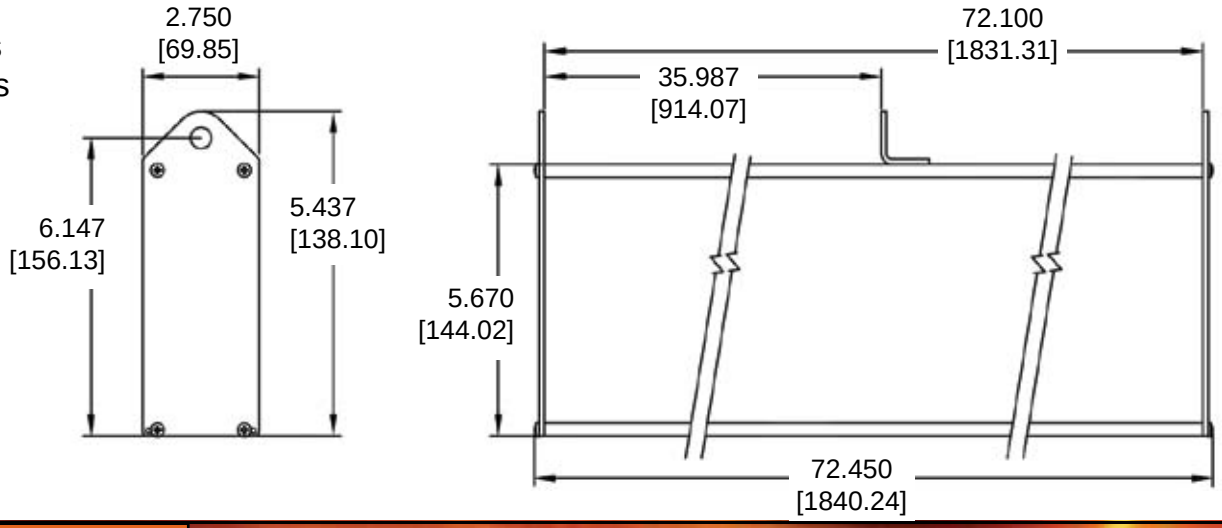
Model Number	Interface	Price	Del.
EZMRH-2L40C	RS232 and RS422/485 only	$3199	3DAY
EZMRH-2L40C-E	Ethernet included	$3399	3DAY
EZMRH-2L40C-D	DeviceNet included	$3399	3DAY
EZMRH-2L40C-P	Profibus included	$3459	3DAY



TRI color Indoor

Model Number	Interface	Price	Del.
EZMT-2L40C	RS232 and RS422/485 only	$1,899	3DAY
EZMT-2L40C-E	Ethernet included	$1,998	3DAY
EZMT-2L40C-D	DeviceNet included	$1,998	3DAY
EZMT-2L40C-P	Profibus included	$2,028	3DAY

2 Lines 40 Characters Dimensions



EZMarquee - 2 Lines 40 Characters

2 Lines 40 Characters - NEMA 4X

The 2 Line 40 Char EZMarquee can hold up to a maximum of 40 characters (2") per line and features 2 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 4X extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 2 Line 40 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

2 Lines 40 Characters feature:

- 2 lines of 40 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below

Characteristics:

Character Height:	2" / 4"
Characters per Line:	40 / 20
Number of Lines:	2 / 1
Visibility:	100' / 200'



RED Outdoor

Model Number	Interface	Price	Del.
EZMR-2L40C-OUT	RS232 and RS422/485 only	$3199	3DAY
EZMR-2L40C-E-OUT	Ethernet included	$3399	3DAY
EZMR-2L40C-D-OUT	DeviceNet included	$3399	3DAY
EZMR-2L40C-P-OUT	Profibus included	$3459	3DAY

RED Outdoor Highbright

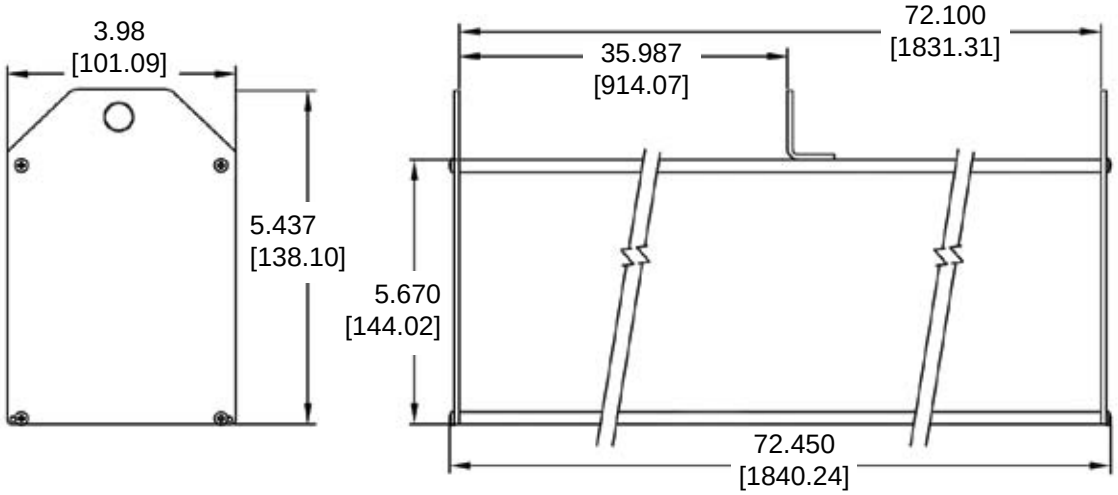
Model Number	Interface	Price	Del.
EZMRH-2L40C-OUT	RS232 and RS422/485 only	$4799	3DAY
EZMRH-2L40C-E-OUT	Ethernet included	$5099	3DAY
EZMRH-2L40C-D-OUT	DeviceNet included	$5099	3DAY
EZMRH-2L40C-P-OUT	Profibus included	$5199	3DAY



TRI color Outdoor

Model Number	Interface	Price	Del.
EZMT-2L40C-OUT	RS232 and RS422/485 only	$3798	3DAY
EZMT-2L40C-E-OUT	Ethernet included	$3999	3DAY
EZMT-2L40C-D-OUT	DeviceNet included	$3999	3DAY
EZMT-2L40C-P-OUT	Profibus included	$4059	3DAY

2 Lines 40 Characters Dimensions



EZMarquee - 4 Lines 40 Characters

4 Lines 40 Characters - NEMA 12

The 4 Line 40 Char EZMarquee can hold up to a maximum of 40 characters (2") per line and features 4 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 12 extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 4 Line 40 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

Characteristics:

Character Height:	2" / 4" / 6" / 8"
Characters per Line:	40 / 20 / 13 / 10
Number of Lines:	4 / 2 / 1 / 1
Visibility:	100' / 200' / 300' / 400'

4 Lines 40 Characters feature:

- 4 lines of 40 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below





RED Indoor

Model Number	Interface	Price	Del.
EZMR-4L40C	RS232 and RS422/485 only	$2,399	3DAY
EZMR-4L40C-E	Ethernet included	$2,498	3DAY
EZMR-4L40C-D	DeviceNet included	$2,498	3DAY
EZMR-4L40C-P	Profibus included	$2,548	3DAY

TRI color Indoor

Model Number	Interface	Price	Del.
EZMT-4L40C	RS232 and RS422/485 only	$3,299	3DAY
EZMT-4L40C-E	Ethernet included	$3,398	3DAY
EZMT-4L40C-D	DeviceNet included	$3,398	3DAY
EZMT-4L40C-P	Profibus included	$3,448	3DAY

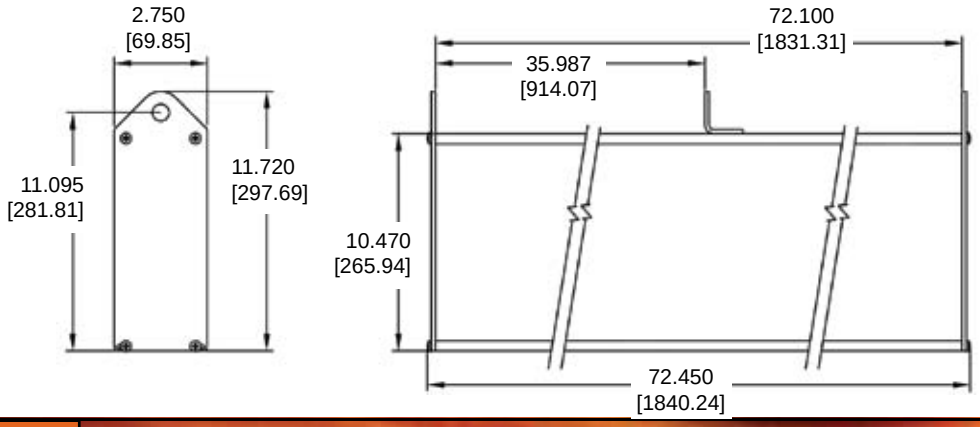
(BOTTOM)

RED High-bright ***(TOP)***

Model Number	Interface	Price	Del.
EZMRH-4L40C	RS232 and RS422/485 only	$4799	3DAY
EZMRH-4L40C-E	Ethernet included	$4999	3DAY
EZMRH-4L40C-D	DeviceNet included	$4999	3DAY
EZMRH-4L40C-P	Profibus included	$5099	3DAY

(TOP)

4 Lines 40 Characters Dimensions



EZMarquee - 4 Lines 40 Characters

4 Lines 40 Characters - NEMA 4X

The 4 Line 40 Char EZMarquee can hold up to a maximum of 40 characters (2") per line and features 4 lines of RED/Tri-Color LEDs. EZMarquees are enclosed in NEMA 4X extruded aluminum housing with NEMA ICS 2-230 level of electrical noise immunity.
All 4 Line 40 Character models are capable of communicating over RS232 and RS422/485 along with different models for Ethernet, DeviceNet and Profibus connectivity.

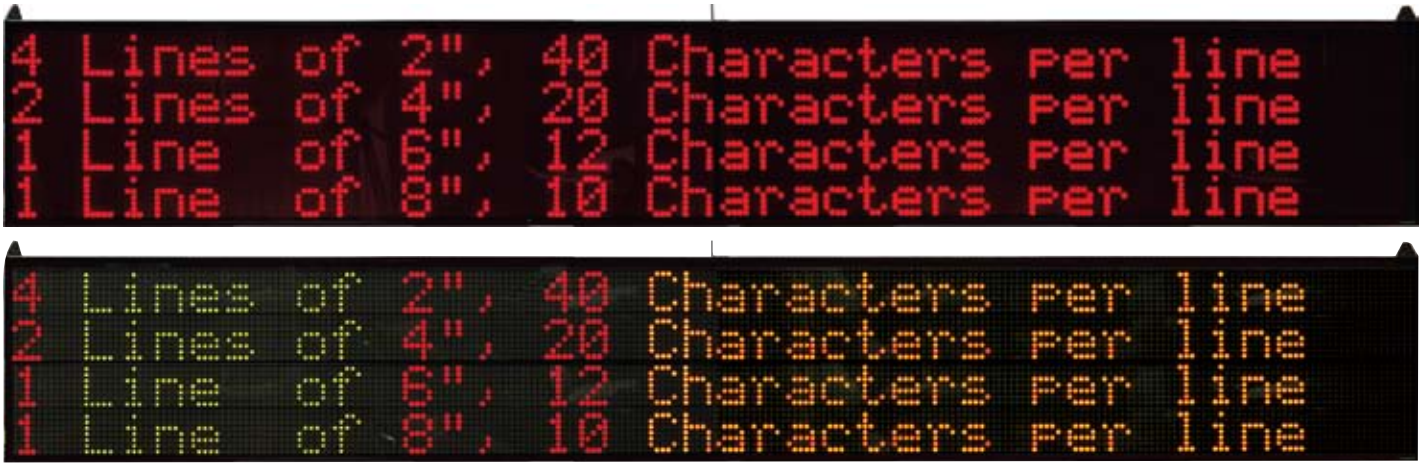
Characteristics:

Character Height:	2" / 4" / 6" / 8"
Characters per Line:	40 / 20 / 13 / 10
Number of Lines:	4 / 2 / 1 / 1
Visibility:	100' / 200' / 300' / 400'

4 Lines 40 Characters feature:

- 4 lines of 40 characters max
- Pre-matched LEDs
- 24 Hour Burn-In tested
- International Character Set
- Hang Mounting
- NEMA 12 Housing
- NEMA ICS 2-230
- 110/220 VAC Power Input
- Surge Protection
- 100,000+ Hours Rated Life

See the different communication interface options available in the charts below



RED Outdoor

Model Number	Interface	Price	Del.
EZMR-4L40C-OUT	RS232 and RS422/485 only	$4799	3DAY
EZMR-4L40C-E-OUT	Ethernet included	$4999	3DAY
EZMR-4L40C-D-OUT	DeviceNet included	$4999	3DAY
EZMR-4L40C-P-OUT	Profibus included	$5099	3DAY

TRI color Outdoor

Model Number	Interface	Price	Del.
EZMT-4L40C-OUT	RS232 and RS422/485 only	$6598	3DAY
EZMT-4L40C-E-OUT	Ethernet included	$6799	3DAY
EZMT-4L40C-D-OUT	DeviceNet included	$6799	3DAY
EZMT-4L40C-P-OUT	Profibus included	$6899	3DAY

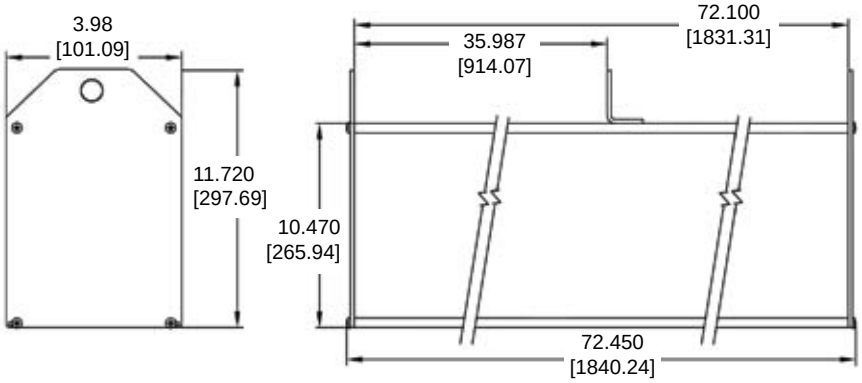
(BOTTOM)

RED Outdoor Highbright

Model Number	Interface	Price	Del.
EZMRH-4L40C-OUT	RS232 and RS422/485 only	$7199	3DAY
EZMRH-4L40C-E-OUT	Ethernet included	$7499	3DAY
EZMRH-4L40C-D-OUT	DeviceNet included	$7499	3DAY
EZMRH-4L40C-P-OUT	Profibus included	$7649	3DAY

(TOP)

4 Lines 40 Characters Dimensions



Enhanced Customer Support



We wanted to provide you even better customer support than you currently get. To accomplish that, here is what we did:

Extended Customer Service Hours:

6:00 am to 8:00 pm Central Standard Time
Monday - Friday

Phone: 1-877-774-EASY (774-3279)
Fax: 1-877-775-EASY (775-3279)
sales@ezautomation.net

Same Day Shipping

For Orders Received By 7:15 PM Central Standard Time

Applicable to All Phone, Fax, Email or On-Line Orders

Phone: 877-774-EASY (774-3279)
Mon - Fri 6:00am - 8:00pm Central Std Time
Fax: 1-877-775-EASY (775-3279)
Email: sales@ezautomation.net
On-Line: www.EZAutomation.net

Picks Up
AT 7:30pm CST
Bettendorf, IA



Enhanced Technical Support

Extended Tech Support Hours:

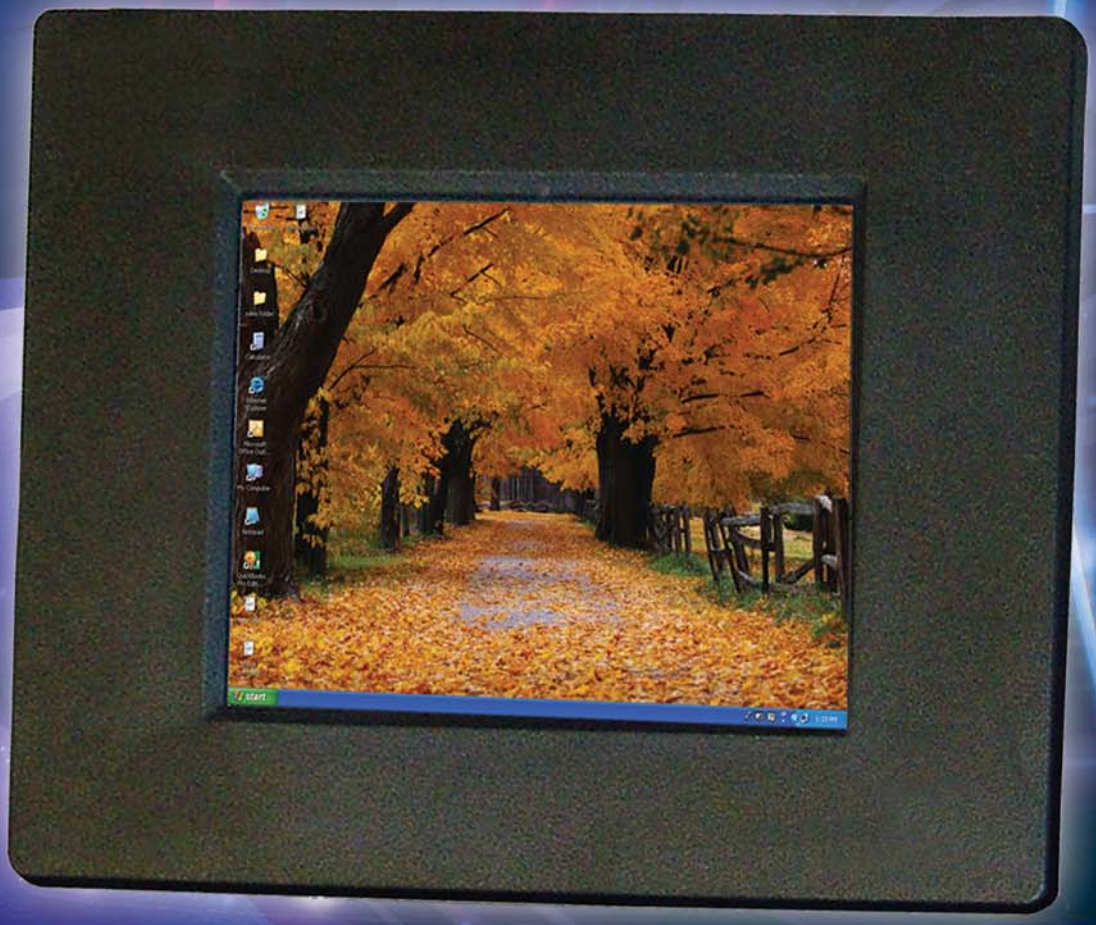
6:00 am to 12:00 midnight Central Standard Time
Monday - Friday

Phone: 1-877-774-EASY
Fax: 1-877-775-EASY
techsupport@ezautomation.net
Emergency Weekend Number: 563-650-8112



EZ Touchscreen CE Computer™

THE MOST SENSIBLE MADE IN AMERICA CE COMPUTER



EZTouchscreen CE Computer™

The Most SENSIBLE Made in America CE Computer with Stable Platform

TBRS

What is EZTouchscreen CE Computer?

Windows CE® based computers are increasingly finding their way in the industrial automation world due to the fact that they do not need a hard disk and yet provide the benefits of the Windows world like Internet Browsers, etc. The EZTouchscreen CE Computer is a 333 MHz CE Computer housed in the EZTouch housing. It comes in 8 models including a 6" White on Blue display that allows us to offer a full fledged CE Touch Computer at an incredible $599.



What does it have?

Hardware

- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, second RS232/422/485
- 4 wire Analog resistive touch screen
- 24 VDC, 0.5 Amp for up to 10" models
- Network card option for future expansion
- Mechanical/hardware interface to build EZPLC and EZI/O in the same housing, for future release.
- Choice of 8 displays

Software

- Windows CE.net® 4.2 Core preloaded in standard model with Compact Framework
- Windows CE.net® 4.2 Professional Plus preloaded in Enhanced model, with Internet Explorer and Viewer software
- SDK for Software Development

Made in America



Designed and built in USA by

AVG
www.avg.net

Where does it make sense?

If you like to write or use your own HMI/SCADA/Control software to use on a standard Windows CE® hardware, EZTouchScreen CE Computer is an ideal platform to consider. It has been designed to work reliably in an industrial plant versus just office environments. It has very low power consumption so that no fans or large heat sinks are required to maintain acceptable operating temperatures. This EZTouchScreen CE Computer will work from -10°C to 60°C for most models.

The Windows CE OS needs only 16-20 MB of memory as compared to 100+ MB for Windows XP or even XP embedded. Therefore, you can enjoy the benefits of the world of Windows without the use of moving media like a hard disc.

CPU GUARANTEED AVAILABILITY FOR 7 Years

Widest Selection of CE Touch Computers with a Common Hardware Platform

HALT CERTIFIED HASS

Providing Full CE Functionality for as low as $599





6” White on Blue, QVGA
EZTCC-S6W-S (Standard): $599
EZTCC-S6W-E (Enhanced): $699



6” Monochrome, QVGA
EZTCC-S6M-S (Standard): $749
EZTCC-S6M-E (Enhanced): $849



6” STN Color, QVGA
EZTCC-S6C-S (Standard): $899
EZTCC-S6C-E (Enhanced): $999



6” TFT Color, QVGA
EZTCC-T6C-S (Standard): $1199
EZTCC-T6C-E (Enhanced): $1299



8” STN Color, VGA
EZTCC-S8C-S (Standard): $1299
EZTCC-S8C-E (Enhanced): $1399



8” TFT Color, VGA
EZTCC-T8C-S (Standard): $1499
EZTCC-T8C-E (Enhanced): $1599



10” TFT Color, VGA
EZTCC-T10C-S (Standard): $1799
EZTCC-T10C-E (Enhanced): $1899



15” TFT Color, VGA
EZTCC-T15C-S (Standard): $1999
EZTCC-T15C-E (Enhanced): $2099

- **AMD Alchemy 333 MHz CPU**
- **32 MB Flash, 64MB RAM**
- **Compact Flash Slot**
- **10/100 Base-T Ethernet**
- **One RS232, one RS232/422/485 Port, One USB Host Port**
- **Network and I/O Card Option**
- **Light weight / Low Power**
- **Complete NEMA 4, 4x Industrial Ratings**

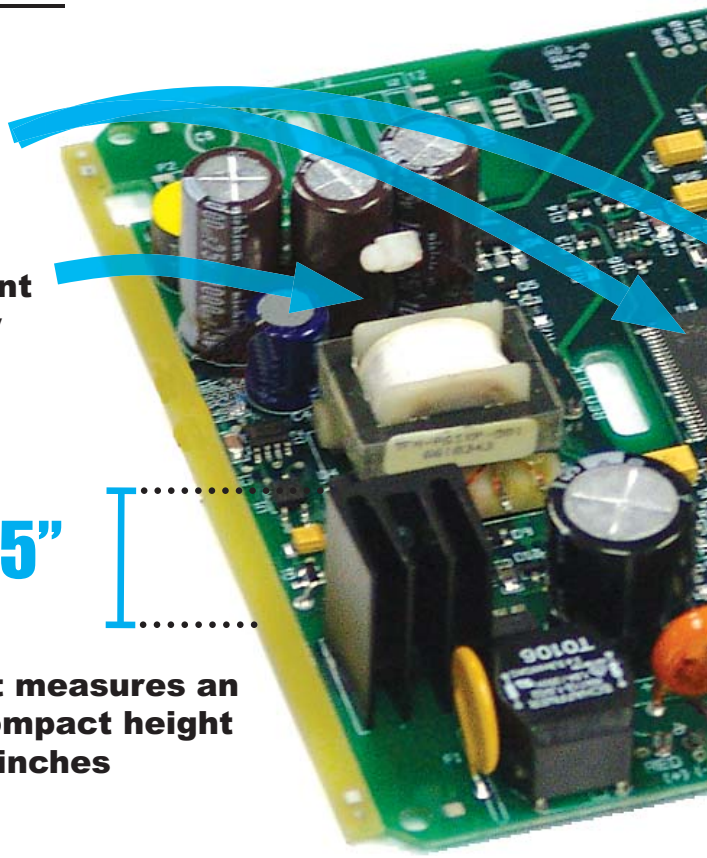
We Designed EZTouchscreen CE Computer™ to be SENSIBLE

Familiar Motherboard

The heart of the EZTouchscreen CE Computer is the motherboard which might look very familiar to you. You are right! It has the same foot print as the EZTouch Coldfire processor motherboard. When we decided to offer a standard Windows CE operating system in the EZ series of our Automation products, it made SENSE to use the same housing and the same displays as the EZTouch family. So the end result was availability of 8 different models with common feature sets except the type and size of display.

AMD Alchemy AV1100 Processor

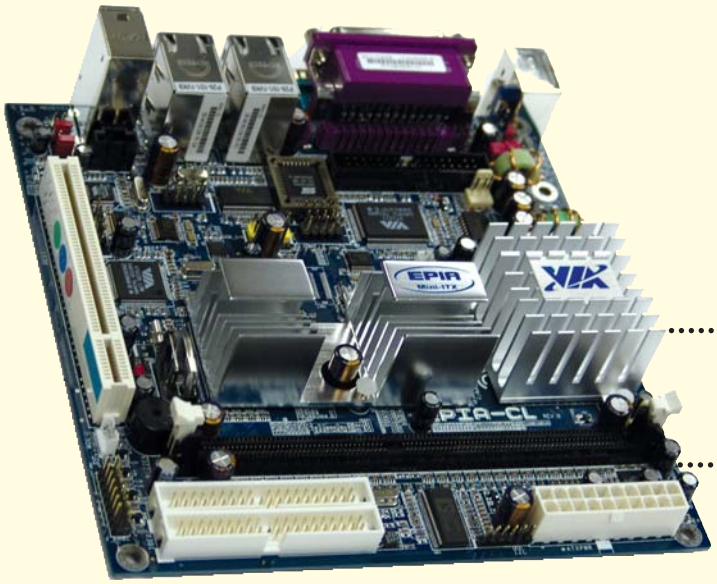
We chose this 333 MHz processor to give you high processing power at low power consumption. It consumes a maximum of 70mw of power as compared to 5 Watts for some other processors.



Leading Competitor’s CE Motherboard

THIS MONSTER USES 5 WATTS TO RUN...
(and by the way, its the best we could find)



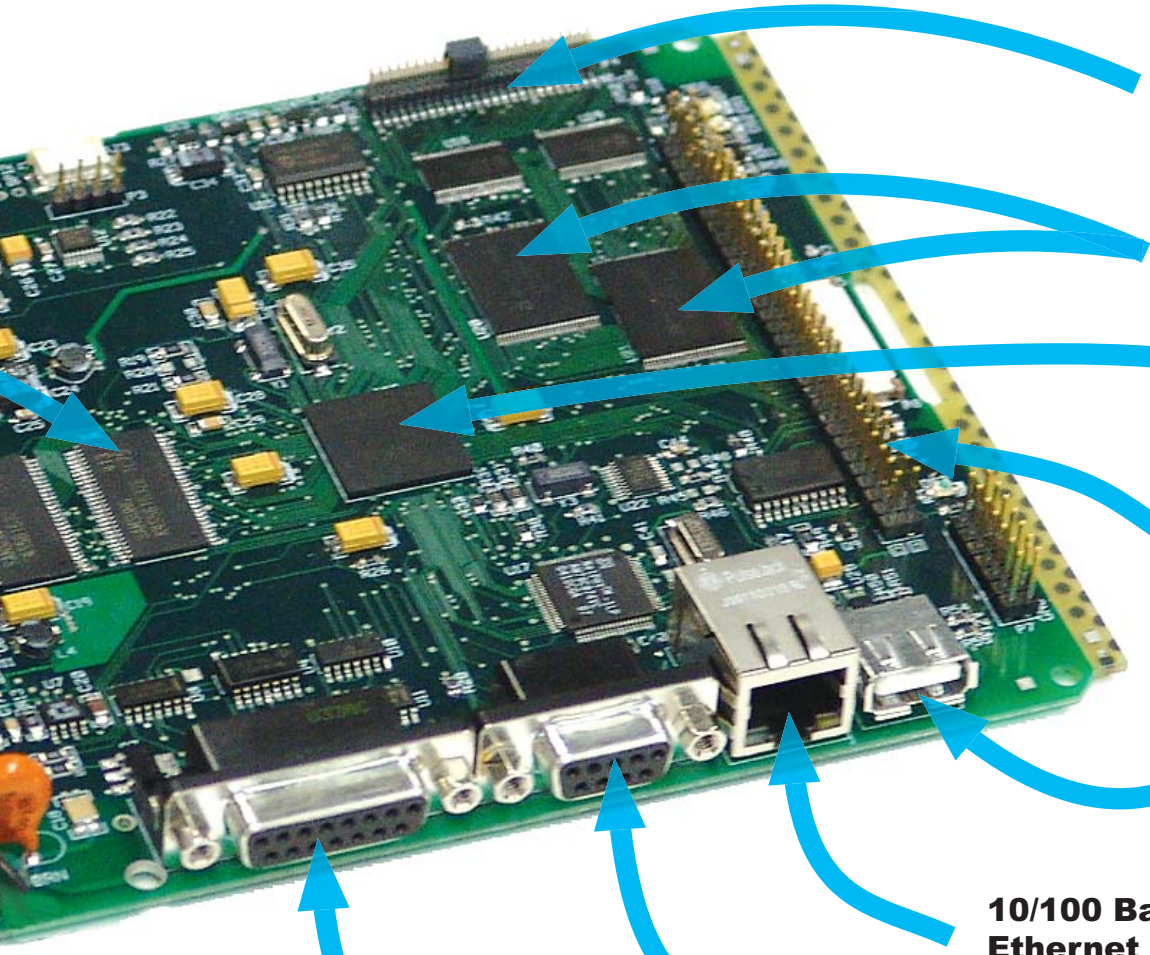


AND IT WON’T FIT IN MY APPLICATION...

IT’S TOO BIG!

1.75”

Overall height measures over 1.75 inches





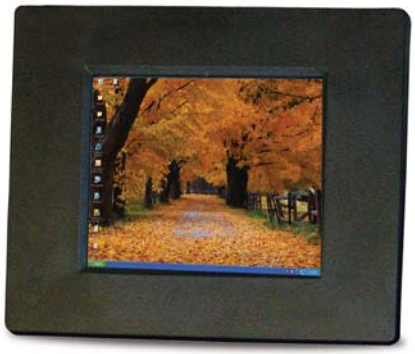
HALT CERTIFIED HASS

Guaranteed Hardware Stability & Availability for 7 Years

Since the hardware of the EZTouchscreen CE Computer was designed in the U.S.A. specifically for the Industrial Automation market, we carefully selected the processor and other components with long term availability in mind. It is quite normal in the PC industry to obsolete motherboards every 12-18 months. Whereas this works for the consumer PC environment, it does not work with industrial automation. You as a plant floor professional or one who serves the manufacturing plants, want to have consistency in the automation product you get today, tomorrow and 5 years from now.

At AVG, we come from a background, no matter if it is an Autotech PLS or a Uticor welding control, where we continue to serve our customers with even 20 year old products.
Thus, we can guarantee you that the same EZTouchscreen CE Computer shall be available to you even 7 years from now.

Our Windows CE® Hardware is as Rugged as Any of Our Other Automation Products



Many control engineers have a fear of the Windows world for factory automation because of their every day experience of Windows operating systems not booting up correctly, or getting hung-up or simply crashing. There are two reasons for possible malfunctions when dealing with Windows based products:

1. Hardware Failure

If the hardware is designed for a typical office application, it would not have an EMI filtered, input power/voltage variation tolerant power supply, and it may not withstand high operating temperatures like 50 C ambient, high shock and vibration, water condensation or spray or a high level of electrical noise. The EZAutomation's EZTouchScreen CE Computer has been designed to withstand these adverse environments quite admirably. It has the following environmental specifications:



Built to withstand harsh environments!



EZTouchscreen CE Computer Specifications	
Storage Temp	-20° to +65° C
Operating Temp	-10 to +60° C for TFT models (0 to +55° C for all others)
Humidity	10-95% R.H.
Vibration	5-55 Hz, 3 G for 2 hrs
Shock	20 G for under 12 ms in the X, Y, Z directions
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37, 90a-1974 SWC Level C Chattering Relay Test
Enclosure	NEMA 4, 4X (indoor)

2. Software Lock-up

This phenomenon depends upon how open you would allow your CE Computer to be. If it is totally open, you have to block all viruses that may come its way. An open system may also result in the software just hanging-up. You as a software designer of your applications are responsible for any such occurrence.

HALT CERTIFIED HASS

EZTouchscreen CE Computer™

EZTouchscreen CE Computer Breaks Price Barrier

The first NEMA 4 Touch Screen CE Computer with full industrial ratings under $600

There are many applications where an OEM needs the power of a Windows CE Touchscreen Computer for data entry and data storage to transmit to main server, but does not want to pay the price of a color screen. Until now, no one offered a CE Touchscreen Computer with a monochrome display below $600.



Here is what you get for $599

- 5.7" White on Blue Touch Screen Display with Four Shades of Blue
- 333 MHz AMD Processor
- 32 MB of Flash
- 64 MB of RAM
- Compact Flash Slot
- 10/100 Base-T Ethernet Port
- USB Host
- 24 VDC Power @ 300 mA
- Windows CE.NET 4.2 Core Software with Compact Framework
- 2.325" Depth
- 7 Year CPU Availability Guarantee

Here is what you get for $699

All of Above Plus...

- Internet Explorer
- Adobe PDF Viewier
- Microsoft Word Viewer
- Microsoft Excel Viewer
- Microsoft Word Pad Text Editor
- MPEG (Video) Viewer
- FTP Server for sending and receiving files from remote location

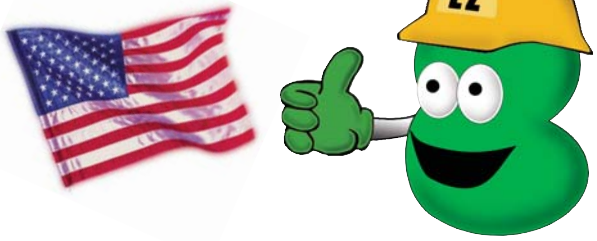




Made in America

American Pride in Manufacturing

All Research, Development and Manufacturing for EZAutomation is done at our plant in Bettendorf, IA.



EZTouchscreen CE Computer Head to Head Comparison

6" STN W/Win CE Preloaded

	EZAutomation EZTCC-S6C-S	Advantech TPC-650S-CE
Display Size/Type	5.7" STN	5.7" STN
DisplayResolution	320x240	320x240
Display Brightness	180 Nits	110 Nits
Display Life	25,000 Hours	NA
Touch Screen	Analog Resistive	Analog Resistive
CPU	AMD Alchemy 330 MHz CPU	Intel Pentium 166 MMX
CPU Bios Guarantee	7 Years	None
Built-In Flash Memory	32MB Flash	No, External Compact Flash required
RAM	64MB	32MB SO-DIMM SDRAM (to 128)
Ports	2 Serial (RS232, RS232/422/485), 10/100 BaseT Ethernet, USB	2 serial (1 for RS422/485); 1 parallel; 1 Ethernet 10/100BaseT; 1 PS2
Operating Temp	0 to 55°C	0 to 50°C
Storage Temp	-20 to 65°C	-20 to 60°C
Enclosure	Nema 4,4x (indoor)	NEMA 4
Power Consumption	13 Watts @ 24VDC	24 Watts
Noise Rating	NEMA ICS 2-230 showering arc ANSI; C37.90a-1974 SWC Level C Chattering Relay Test	NA
Shock Rating	20 G for under 12ms in the X, Y and Z axes	NA
Vibration Rating	5 to 55Hz 3 G for 2 hours in the X, Y and Z axis	NA
Warranty	2 Year	1 Year
Weight	1.7 lbs	3.7lb (1.7kg)
Expansion Slots Available	64 pin bus connector for future release of network and I/O cards	1 16 bit PC104 slot
Certifications	UL, CUL, CE* pending	None
Price	**$899**	**$1506**

6" TFT W/Win CE Preloaded

	EZAutomation EZTCC-T6C-S	Advantech TPC-650T-CE (CE on Flash)	Allen Bradley VersaView CE 6182H-7TLH4D
Display Size/Type	5.7" TFT	6.4" TFT	6.5" TFT
DisplayResolution	320x240	VGA	640x480, 18bit color
Display Brightness	400 Nits	300 Nits	NA
Display Life	50,000 Hours Half-Life	NA	NA
Touch Screen	Analog Resistive	Analog Resistive	Analog Resistive
CPU	AMD Alchemy 333 MHz CPU	Intel Pentium 166 MMX	Intel Celeron 650 MHz
CPU Bios Guarantee	7 Years	None	None
Built-In Flash Memory	32MB Flash	No, External Compact Flash required	32MB (to 256)
RAM	64MB	32MB SO-DIMM SDRAM (to 128)	64MB (to 256)
Ports	2 Serial (RS232, RS232/422/485), 10/100 BaseT Ethernet, USB	2 serial (1 for RS422/485); 1 parallel; 1 Ethernet 10/100BaseT; 1 PS2	1 Serial; 2USB; 1 Ethernet 10/100
Operating Temp	-10C to 60°C	0 to 55°C	0 to 55°C
Storage Temp	-20 to 65°C	-25 to 70°C	-25 to 60°C
Enclosure	Nema 4,4x (indoor)	NEMA 4	NEMA12, 13, 4X
Power Consumption	15 Watts @ 24VDC	24 Watts	NA
Noise Rating	NEMA ICS 2-230 showering arc ANSI; C37.90a-1974 SWC Level C Chattering Relay Test	NA	NA
Shock Rating	20 G for under 12ms in the X, Y and Z axes	NA	15g (Opr) / 30g (non-opr)
Vibration Rating	5 to 55Hz 3 G for 2 hours in the X, Y and Z axis	NA	0.012" p-p, 10-57Hz, 2g peak, 57-500Hz
Warranty	2 Year	1 Year	1 Year
Weight	1.7 lbs	3.7lb (1.7kg)	3.8lb (1.7kg)
Expansion Slots Available	64 pin bus connector for future release of network and I/O cards	1 16 bit PC104 slot	DH+, Remote I/O
Certifications	UL,CUL, CE* pending	None	UL, CUL, CE
Price	**1199**	**1720**	**2525**

EZTouchscreen CE Computer Head to Head Comparison

10.4" TFT W/Win CE Preloaded

	EZAutomation *EZTCC-T10C-S*	AB Versaview CE *6182H-10TLH4D*	Xycom *3310T-300-128-64M-CE*
Display Size/Type	10.4" TFT	10.4" TFT	10.4" TFT
DisplayResolution	640x480	640x480, 18bit color	VGA 640x480
Display Brightness	200 Nits	NA	NA
Display Life	40,000 Hours Half-Life	NA	NA
Touch Screen	Analog Resistive	Analog Resistive	Analog Resistive
CPU	AMD Alchemy 333 MHz CPU	Intel Celeron 650 MHz	NS Geode GX1 300 MHz
CPU Bios Guarantee	7 Years	None	None
Built-In Flash Memory	32MB Flash	32MB (to 256)	64 MB CompactFlash
RAM	64MB	64MB (to 256)	128MB DRAM (to 256)
Ports	2 Serial (RS232, RS232/422/485), 10/100 BaseT Ethernet, 1 USB Host	1 Serial; 2USB; 1 Ethernet	1 ethernet 10/100BaseT; 1serial; 1parallel; 2 PS2; 2 USB
Operating Temp	-10C to 60°C	0 to 55°C	0 to 50°C
Storage Temp	-20 to 65°C	-25 to 60°C	-20 to 60°C
Enclosure	Nema 4,4x (indoor)	NEMA12, 13, 4X	NEMA4, 4X, 12
Power Consumption	18 Watts @ 24VDC	18-32V DC	100-240 VAC 1 Amp
Noise Rating	NEMA ICS 2-230 showering arc ANSI; C37.90a-1974 SWC Level C Chattering Relay Test	NA	NA
Shock Rating	20 G for under 12ms in the X, Y and Z axes	15g (Opr) / 30g (non-opr)	30g peak, 11msec duration
Vibration Rating	5 to 55Hz 3 G for 2 hours in the X, Y and Z axis	0.012" p-p, 10-57Hz, 2g peak, 57-500Hz	0.015" p-p, 5-2000Hz, 2.5g Max acc
Warranty	2 Year	1 Year	2 Year
Weight	3.8 lb	5.7lb (2.6kg)	11.0lb (5kg)
Expansion Slots Available	64 pin bus connector for future release of network and I/O cards	ControlNet; DH+/DH485/RIO	2 PC104
Certifications	UL, CUL, CE* pending	UL, CUL, CE	UL, CUL, CE
Price	**1799**	**3390**	**2595**

15" TFT W/Win CE Preloaded

	EZAutomation *EZTCC-T15C-S*	Advantech *TPC-1560T-CEN*	AB Versaview CE *6182H-15TLH4D*	An Arbor *paneLink15-embedded*
Display Size/Type	15" TFT	15" TFT	15"TFT	15" TFT
DisplayResolution	640x480	XGA 1024x768	1024x768, 18bit color	1024x768
Display Brightness	250 Nits	350 Nits	NA	NA
Display Life	40,000 Hours Half-Life	NA	NA	NA
Touch Screen	Analog Resistive	Analog Resistive	Analog Resistive	Analog Resistive
CPU	AMD Alchemy 333 MHz CPU	Transmeta Crusoe 5400 500 MHz	Intel Celeron 650 MHz	533 MHz VIA Eden
CPU Bios Guarantee	7 Years	None	None	None
Built-In Flash Memory	32MB Flash	No, External Compact Flash required	32MB (to 256)	External Compact Flash required
RAM	64MB	128 MB (112 MB for user)	64MB (to 256)	128MB SDRAM (Upto 1 GB)
Ports	2 Serial (RS232, RS232/422/485), 10/100 BaseT Ethernet, USB	3 serial (1 for RS232/422/485; 1 parallel; 1 Ethernet 10/100BaseT; 2 USB; 1 PS2; 2 PCMCIA; 1 VGA; MIC/Line out	1 Serial; 2USB; 1 Ethernet	1 Ethernet 10/100; 2 USB; 1 serial; 2 PS2; 1 parallel
Operating Temp	-10C to 60°C	0 to 50°C	0 to 55°C	0 to 50°C
Storage Temp	-20 to 65°C	-20 to 60°C	-25 to 60°C	-10 to 60°C
Enclosure	Nema 4,4x (indoor)	NEMA 4	NEMA12, 13, 4X	NEMA 4X
Power Consumption	20 Watts @ 24VDC	24 V DC 1 Amp	18-32V DC	120 VAC
Noise Rating	NEMA ICS 2-230 showering arc ANSI; C37.90a-1974 SWC Level C Chattering Relay Test	NA	NA	NA
Shock Rating	20 G for under 12ms in the X, Y and Z axes	NA	15g (Opr) / 30g (non-opr)	10 G
Vibration Rating	5 to 55Hz 3 G for 2 hours in the X, Y and Z axis	NA	0.012" p-p, 10-57Hz, 2g peak, 57-500Hz	NA
Warranty	2 Year	1 year	1 year	1 year
Weight	8.9 lb	8.37lb (3.8kg)	9.3lb (4.2kg)	NA
Expansion Slots Available	64 pin bus connector for future release of network and I/O cards	1 32bit PC104+	ControlNet; DH+/DH485/RIO	None
Certifications	UL, CUL, CE* pending	None	UL, CUL, CE	None
Price	**$1999**	**$2381**	**$5760**	**$2295**

EZTouchscreen CE Computer Accessories

EZTouchscreen CE Computer Accessories			
Part Number	**Description**	**Price**	**Del.**
EZTCC-COMPUTER-M	Hardware and Installation manual for EZTouchScreen CE Computer. This manual is included with every CE Computer. Note: EZTCC-COMPUTER-M Hardware and Installation manual for EZTouchScreen CE Computer included with every CE Computer.	**$15**	**TBRS**
EZP-BAT	Replacement 1/2 AA, 3.6 volt lithium battery for EZPanel Enhanced, EZCE Touchpanel, and EZTouchScreen CE Computer	**$20**	**STK**
EZP-BRK-1	Optional DIN rail clips. Only for 6" models of EZPanel Enhanced, EZCE Touchpanel, and EZTouchScreen CE Computer (package of 2).	**$15**	**STK**
EZP-COMCON3	15-pin male D-sub connectors with terminal blocks, for connecting RS422 network cable to EZ Products	**$19**	**STK**
EZP-PANEL-STUDS	Spare mounting studs for EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer panels. Comes in package of 8 with nuts.	**$8**	**STK**
EZP-6SLIMF-GSK	Replacement gasket for Slim Bezel 6 inch models of EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer.	**$8**	**STK**
EZP-8SLIMF-GSK	Replacement gasket for Slim Bezel 8 inch models of EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer.	**$25**	**STK**
EZP-10SLIMF-GSK	Replacement gasket for Slim Bezel 10 inch models of EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer.	**$30**	**STK**
EZP-15SLIMF-GSK	Replacement gasket for Slim Bezel 15 inch models of EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer.	**$34**	**STK**
EZP-COV6	Pack of 3 protective shields for 6 inch models of EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer	**$20**	**STK**
EZP-COV8	Pack of 3 protective shields for 8 inch models of EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer	**$34**	**STK**
EZP-COV10	Pack of 3 protective shields for 10 inch models of EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer	**$38**	**STK**
EZP-COV15	Pack of 3 protective shields for 15 inch models of EZPanel Enhanced, EZCE TouchPanel, and EZTouchScreen CE Computer	**$56**	**STK**







EZTouchscreen CE Computer Specifications

EZTouchscreen CE Computer Model Specifications								
Part Number	**EZTCC-S6W-S**	**EZTCC-S6W-E**	**EZTCC-S6M-S**	**EZTCC-S6M-E**	**EZTCC-S6C-S**	**EZTCC-S6C-E**	**EZTCC-T6C-S**	**EZTCC-T6C-E**
								
Price	$599.00	$699.00	$749.00	$849.00	$899.00	$999.00	$1199.00	$1299.00
Specification	6" white on blue standard	6" white on blue enhanced	6" monochrome standard	6" monochrome enhanced	6" STN color standard	6" STN color enhanced	6" TFT color standard	6" TFT color enhanced
Operating System	Windows CE.NET 4.2 Core	Windows CE.NET 4.2 Pro Plus	Windows CE.NET 4.2 Core	Windows CE.NET 4.2 Pro Plus	Windows CE.NET 4.2 Core	Windows CE.NET 4.2 Pro Plus	Windows CE.NET 4.2 Core	Windows CE.NET 4.2 Pro Plus
Display Type	5.7" STN (White on Blue)		5.7" STN (monochrome)		5.7" STN (18 bit colors)		5.7" TFT (18 bit colors)	
Enclosure	NEMA 4, 4x							
Display Size (Viewing Area)	4.72"x3.5" (119.4x88.9 mm)							
Screen Pixels	320x240							
Display Brightness	140 nits				180 nits		400 nits	
Touch Screen	Analog Resistive Touch Screen							
CPU Type	AMD Alchemy 333 MHz 32Bit Processor							
Service Power	24VDC (20-30VDC operating range), 1.2A switching supply recommended							
Power Consumption	10 watts @ 24VDC		12 watts @ 24VDC		13 watts @ 24VDC		15 watts @ 24VDC	
Agency Approval	UL, CUL, CE (pending)							
Operating Temperature	0° to 55°C						-10° to 60°C	
Storage Temperature	-20° to 65°C							
Humidity	10-95% RH, noncondensing							
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test							
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)							
Insulation Resistance	Over 20 MΩ, between power supply input and terminal and protective ground (FG)							
Vibration	5 to 55Hz 3G for 2 hours in the X, Y and Z axes							
Shock	20G for under 12ms in the X, Y and Z axes							
Memory	32MB Flash and 64MB RAM built-in							
Communications	**2 Serial Ports**: RS-232, RS-232/422/485 **Ethernet:** One 10/100 Base-T Ethernet Port, USB							
Expansion Slot	64 pin bus connector for future release of network and I/O cards							
External Dimensions	6.145"x8.048"x2.433" (156.078x204.40x51.786mm)							
Weight	1.7 lbs							

EZTouchscreen CE Computer Specifications

EZTouchscreen CE Computer Model Specifications								
Part Number	**EZTCC-S8C-S**	**EZTCC-S8C-E**	**EZTCC-T8C-S**	**EZTCC-T8C-E**	**EZTCC-T10C-S**	**EZTCC-T10C-E**	**EZTCC-T15C-S**	**EZTCC-T15C-E**
								
Price	$1,299.00	$1,399.00	$1,499.00	$1,599.00	$1,799.00	$1,899.00	$1,999.00	$2,099.00
Specification	8" STN color standard	8" STN color enhanced	8" TFT color standard	8" TFT color enhanced	10" TFT color standard	10" TFT color enhanced	15" TFT color standard	15" TFT color enhanced
Operating System	Windows CE.NET 4.2 Core	Windows CE.NET 4.2 Pro Plus	Windows CE.NET 4.2 Core	Windows CE.NET 4.2 Pro Plus	Windows CE.NET 4.2 Core	Windows CE.NET 4.2 Pro Plus	Windows CE.NET 4.2 Core	Windows CE.NET 4.2 Plus
Display Type	8.2" STN (18 bit colors)		8" TFT (18 bit colors)		10.4" TFT (18 bit colors)		15" TFT (18 bit colors)	
Enclosure	Nema 4,4x							
Display Size (Viewing Area)	6.65"x5.024" (168.9x127.61 mm)		6.05"x4.55" (153.7x115.8 mm)		8.31"x6.22" (211.07 x 158mm)		12.02"x9.01" (305.28 x 228.96mm)	
Screen Pixels	640x480							
Display Brightness	140 nits		200 nits		200 nits		250 nits	
Touch Screen	Analog Resistive Touch Screen							
CPU Type	AMD Alchemy 333 MHz 32Bit Processor							
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended							
Power Consumption	18 Watts @ 24VDC						20 Watts @ 24VDC	
Agency Approvals	UL, CUL, CE (pending)							
Operating Temperature	0° to 50°C		-10° to 60°C					
Storage Temperature	-20° to 65°C							
Humidity	10-95% RH, noncondensing							
Electrical Noise Interference	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test							
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)							
Insulation Resistance	Over 20 MΩ, between power supply input and terminal and protective ground (FG)							
Vibration	5 to 55Hz 2G for 3 hours in the X, Y and Z axes							
Shock	20G for under 12ms in the X, Y and Z axes							
Memory	32MB Flash and 64MB RAM built-in							
Communications	**2 Serial Ports**: RS-232, RS-232/422/485 **Ethernet:** One 10/100 Base-T Ethernet Port, USB							
Expansion Slot	64 pin bus connector for future release of network and I/O cards							
External Dimensions	8.75"x10.89"x2.76" (222.25x276.61x70.10mm)				10.59"x13.58"x2.86" (268.99x344.93x72.64mm)		13.00"x16.75"x4.68" (330.2x425.5x118.4mm)	
Weight	2.9 lbs				3.8 lbs		7 lbs	

EZTouchscreen CE Computer 6” White on Blue

6” White on Blue - Slim Bezel (5.7” STN)

EZTouchscreen CE Computer’s 6” slim bezel White on Blue panel has a 5.7” diagonal touch screen with 320x240 pixel resolution. This computer has an STN LCD (liquid crystal display). This panel has a very low slim profile along with a smaller footprint on enclosures.



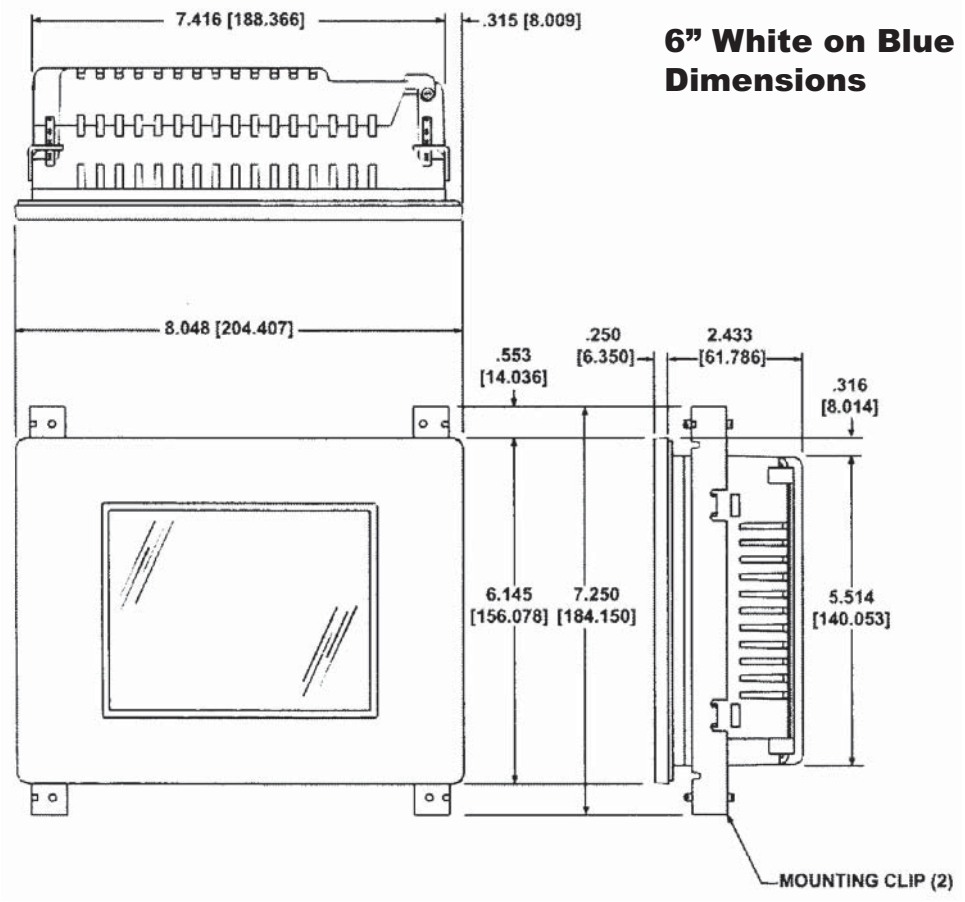
Features:

- 5.7” diagonal white on blue STN LCD
- NEMA 4, 4x
- 320x240 pixel resolution
- 25,000 hour expected bulb half-life
- Analog resistive touch screen
- 2.43” installed depth
- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, one RS232/422/485

Part Number	Description	Price	Del.
EZTCC-S6W-S	6” Mono White-on-blue display, CE 4.2 Core, Nema 4, 4x	$599	3-DAY
EZTCC-S6W-E	6” Mono White-on-blue display, Enhanced CE 4.2 PP, Nema 4, 4x	$699	3-DAY

Enhanced CE Computers with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE



6” White on Blue Dimensions

EZTouchscreen CE Computer 6” Mono Slim Bezel Panels

6” Monochrome - Slim Bezel (5.7” STN)

EZTouchscreen CE Computer’s 6” slim bezel panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These computers have an STN LCD (liquid crystal display) with 16 shades of gray and a very low slim profile along with a smaller footprint on enclosures.



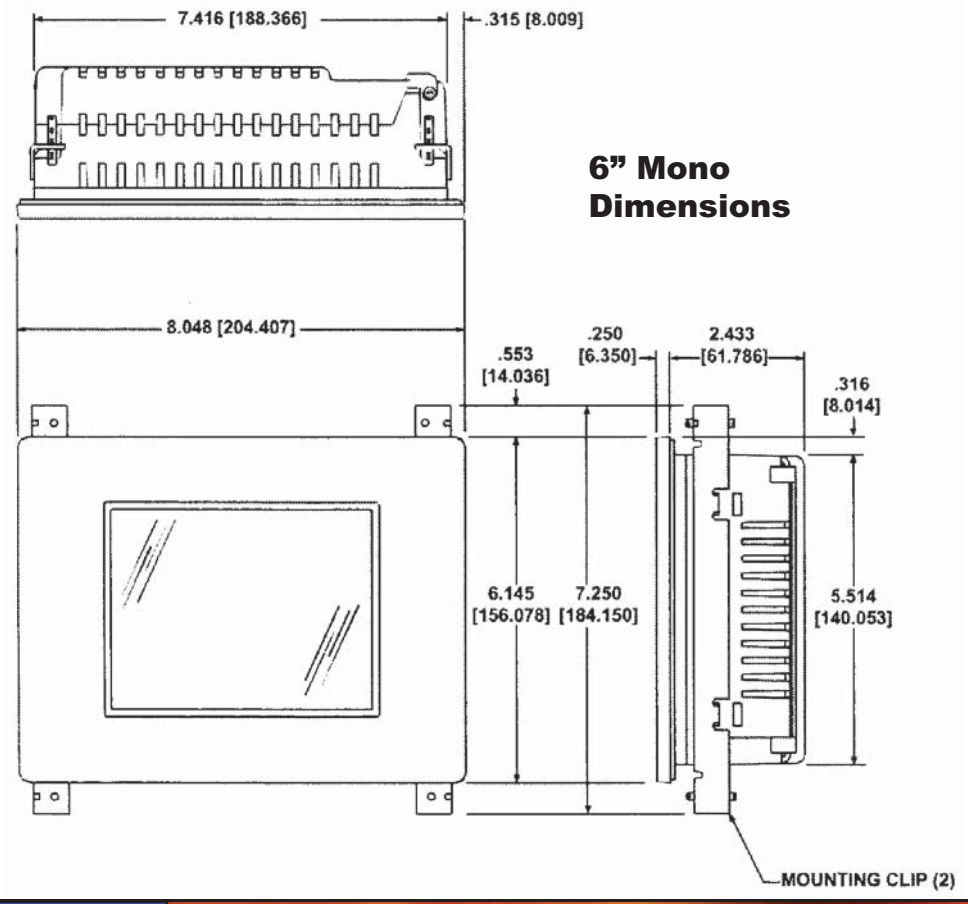
Features:

- 5.7” diagonal mono STN LCD
- NEMA 4, 4x
- 320x240 pixel resolution
- 25,000 hour expected bulb half-life
- 2.43” installed depth
- Analog resistive touch screen
- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, one RS232/422/485

Part Number	Description	Price	Del.
EZTCC-S6M-S	6” Mono Gray scale, CE 4.2 Core, Nema 4, 4x	$749	3-DAY
EZTCC-S6M-E	6” Mono Gray scale, Enhanced CE 4.2 PP, Nema 4, 4x	$849	3-DAY

Enhanced CE Computers with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE



6” Mono Dimensions

EZTouchscreen CE Computer 6” STN Color Slim Bezel Panels



6” Color - Slim Bezel (5.7” STN)

EZTouchscreen CE Computer’s 6” slim bezel panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These computers have a STN LCD (liquid crystal display) and a very low slim profile along with a smaller footprint on enclosures.

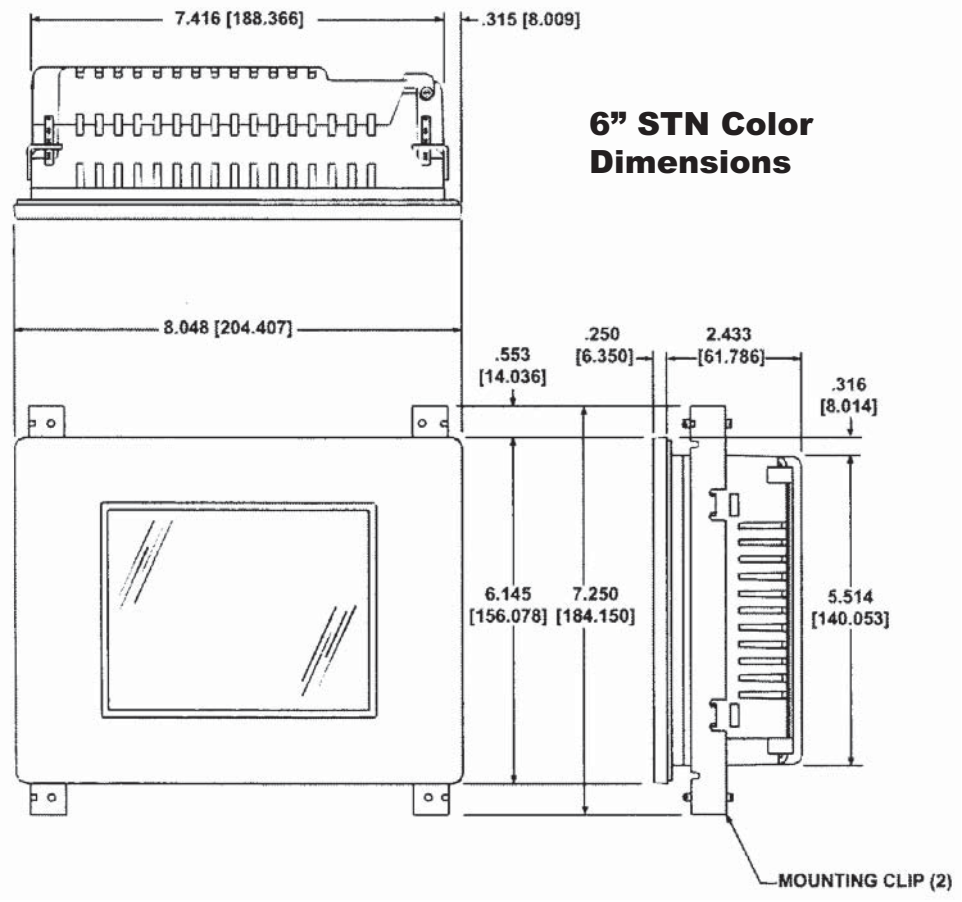
Features:

- 5.7” diagonal color STN LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4, 4x
- 320x240 pixel resolution
- 25,000 hour expected bulb half-life
- Analog resistive touch screen
- 2.43” installed depth
- 48 touch cells (8x6)
- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, one RS232/422/485

Part Number	Description	Price	Del.
EZTCC-S6C-S	6” Color STN, CE 4.2 Core, Nema 4, 4x	$899	3-DAY
EZTCC-S6C-E	6” Color STN, Enhanced CE 4.2 PP, Nema 4, 4x	$999	3-DAY

Enhanced CE Computers with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE



6” STN Color Dimensions

EZTouchscreen CE Computer 6” TFT Color Slim Bezel Panels



6” Color - Slim Bezel (5.7” TFT)

EZTouchscreen CE Computer’s 6” slim bezel panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These computers have a TFT LCD (liquid crystal display) and a very low slim profile along with a smaller footprint on enclosures.

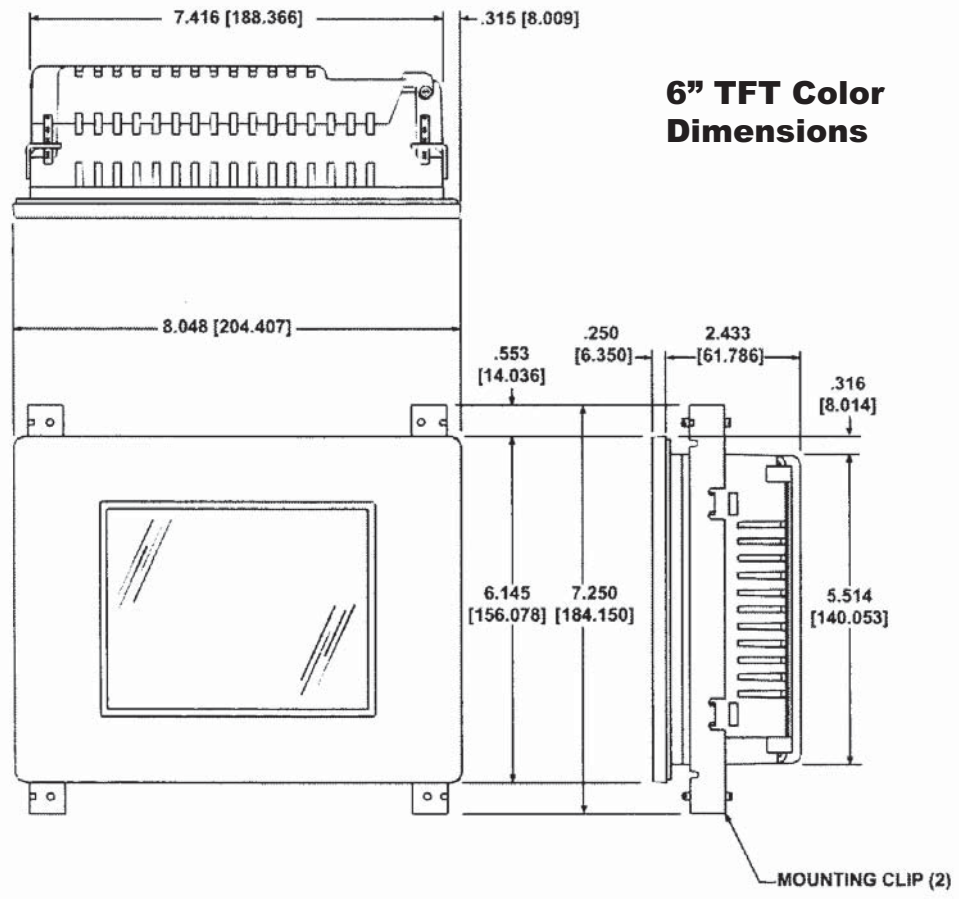
Features:

- 5.7” diagonal color TFT LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4, 4x
- 320x240 pixel resolution
- 25,000 hour expected bulb half-life
- Analog resistive touch screen
- 2.43” installed depth
- 48 touch cells (8x6)
- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, one RS232/422/485

Part Number	Description	Price	Del.
EZTCC-T6C-S	6” Color TFT, CE 4.2 Core, Nema 4, 4x	$1,199	3-DAY
EZTCC-T6C-E	6” Color TFT, Enhanced CE 4.2 PP, Nema 4, 4x	$1,299	3-DAY

Enhanced CE Computers with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE



6” TFT Color Dimensions

EZTouchscreen CE Computer 8” STN Color Slim Bezel Panels



8” Color - Slim Bezel (8.2” STN)

EZTouchscreen CE Computer’s 8” color slim bezel panels have an 8.2” diagonal touch screen, with a 640x480 pixel resolution, an STN LCD (liquid crystal display) and a low-profile slim bezel design that provides a small footprint on enclosures.

Features

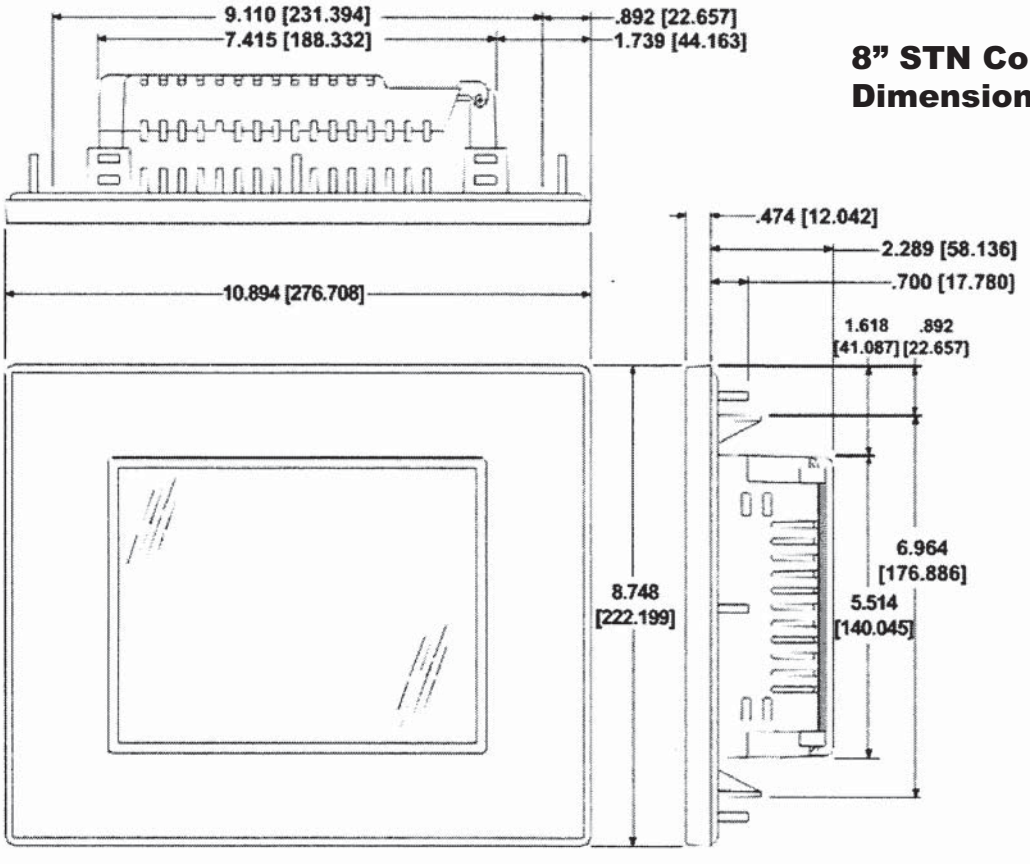
- 8.2” diagonal color STN LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4, 4x
- 640x480 pixel resolution
- 40,000 hour expected bulb half-life
- Analog resistive touch screen
- 2.76” (70.10mm) installed depth
- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, one RS232/422/485

Part Number	Description	Price	Del.
EZTCC-S8C-S	8” Color STN, CE 4.2 Core, Nema 4,4x	$1,299	3-DAY
EZTCC-S8C-E	8” Color STN, Enhanced CE 4.2 PP, Nema 4,4x	$1,399	3-DAY

Enhanced CE Computers with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE

8” STN Color Dimensions



EZTouchscreen CE Computer 8” TFT Color Slim Bezel Panels



8” Color - Slim Bezel (8” TFT)

EZTouchscreen CE Computer’s 8” slim bezel panels have a 8.2” diagonal touch screen with 640x480 pixel resolution. These CE Computers have a TFT LCD (liquid crystal display) and have a very low slim profile along with a smaller footprint on enclosures.

Features

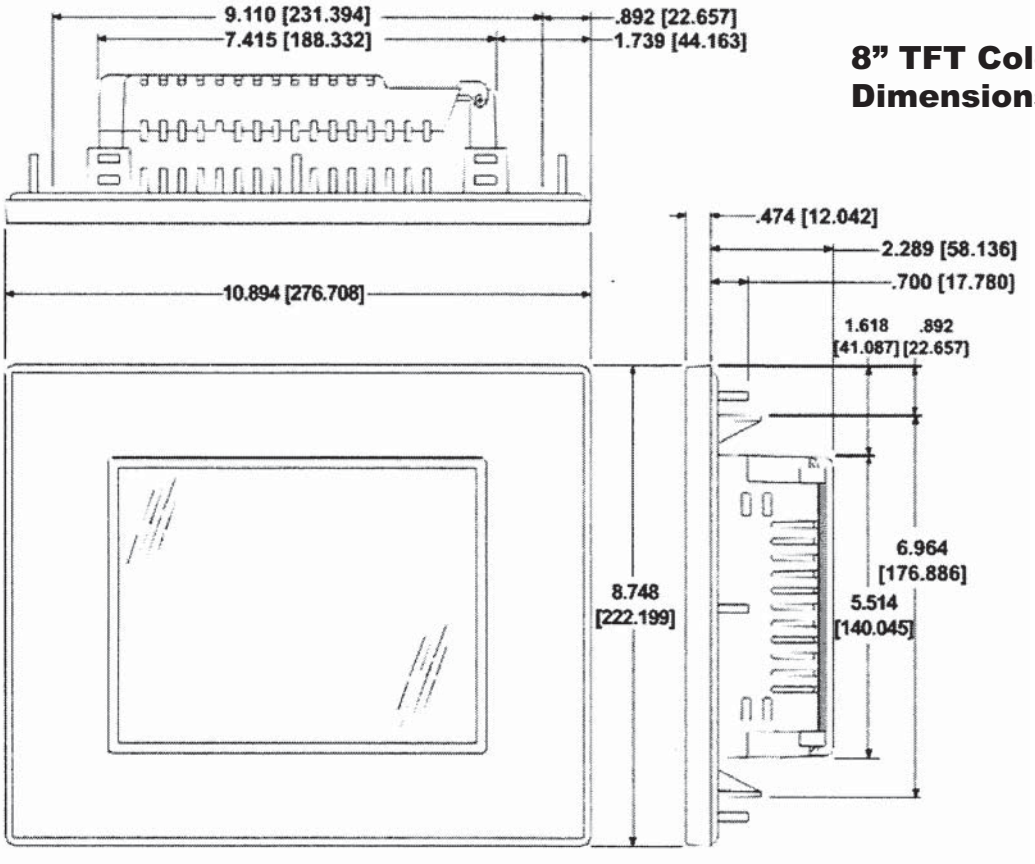
- 8” diagonal color TFT LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4, 4x
- 640x480 pixel resolution
- 40,000 hour expected bulb half-life
- Analog resistive touch screen
- 2.76” (70.10mm) installed depth
- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, one RS232/422/485

Part Number	Description	Price	Del.
EZTCC-T8C-S	8” Color TFT, CE 4.2 Core, Nema 4,4x	$1,499	3-DAY
EZTCC-T8C-E	8” Color TFT, Enhanced CE 4.2 PP, Nema 4,4x	$1,599	3-DAY

Enhanced CE Computers with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE

8” TFT Color Dimensions



EZTouchscreen CE Computer 10” TFT Color Slim Bezel Panels

10” Color - Slim Bezel (10.4” TFT)

The 10” color EZTouchscreen CE Computer slim bezel panel has a 10.4” diagonal touch screen, with a 640x480 pixel resolution, a TFT LCD (liquid crystal display) and a low-profile slim bezel design that provides a small footprint on your enclosure.



Features

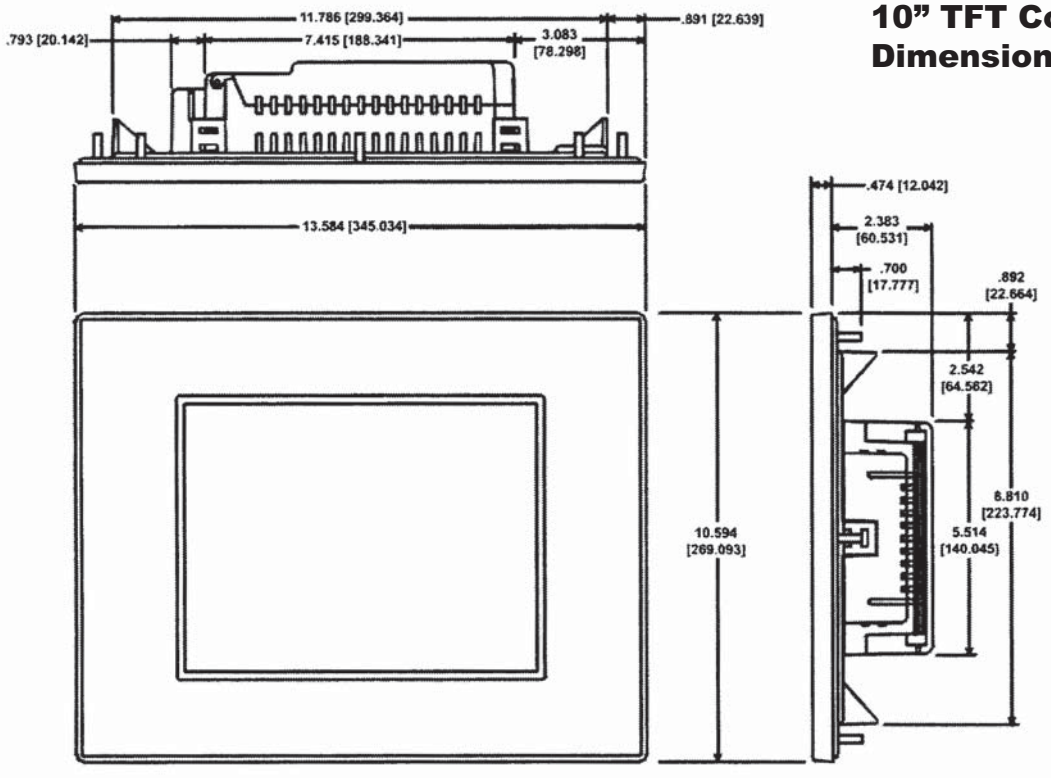
- 10.4” diagonal color TFT LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4, 4x
- 640x480 pixel resolution
- 40,000 hour expected bulb half-life
- Analog resistive touch screen
- 2.86” installed depth
- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, one RS232/422/485

Part Number	Description	Price	Del.
EZTCC-T10C-S	10” Color TFT, CE 4.2 Core, Nema 4,4x	$1,799	3-DAY
EZTCC-T10C-E	10” Color TFT, Enhanced CE 4.2 PP, Nema 4,4x	$1,899	3-DAY

Enhanced CE Computers with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE

10” TFT Color Dimensions



EZTouchscreen CE Computer 15” TFT Color Slim Bezel Panels



15” Color - Slim Bezel (15.0” TFT)

The 15” color EZTouchscreen CE Computer slim bezel panel has a 15.0” diagonal touch screen, with a 640x480 pixel resolution, a TFT LCD (liquid crystal display) and a low-profile slim bezel design that provides a small footprint on your enclosure.

Features

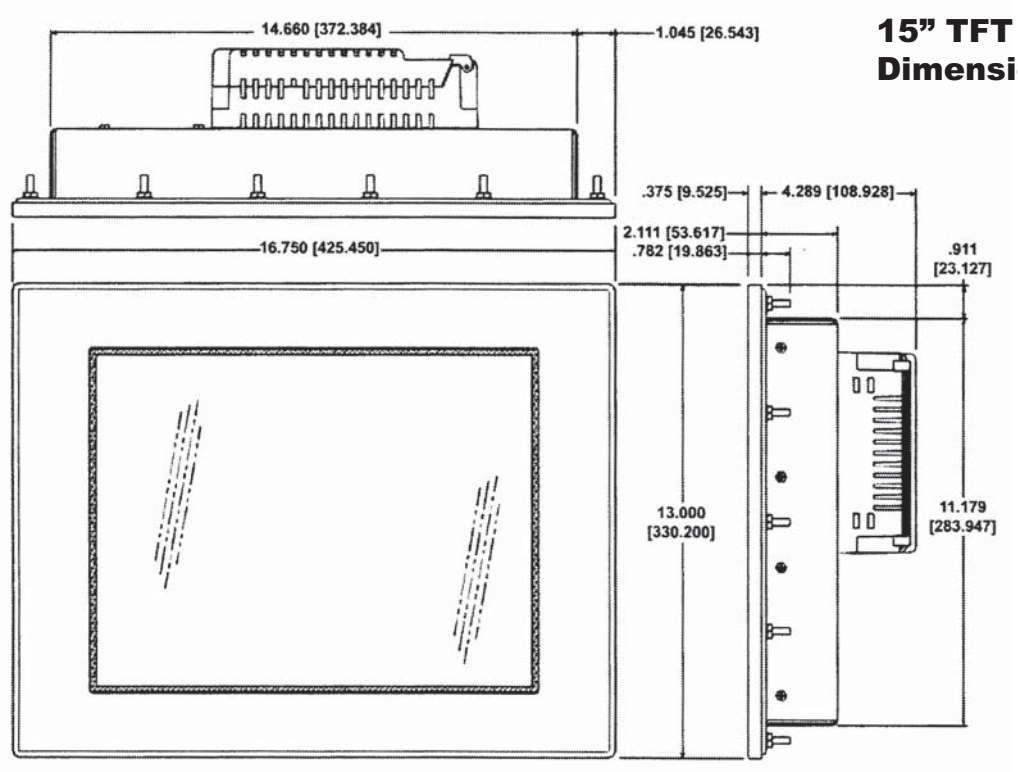
- 15.0” diagonal color TFT LCD
- Low-profile slim bezel design
- 18 bit colors
- NEMA 4, 4x
- 640x480 pixel resolution
- 40,000 hour expected bulb half-life
- Analog resistive touch screen
- 4.68” installed depth
- AMD Alchemy 333 MHz 32Bit Processor
- 32MB Flash and 64MB RAM built-in
- Compact Flash slot
- One 10/100 Base-T Ethernet port
- USB Host port
- 2 Serial ports, one RS232, one RS232/422/485

Part Number	Description	Price	Del.
EZTCC-T15C-S	15” Color TFT, CE 4.2 Core, Nema 1 FDA Compliant	$1,999	3-DAY
EZTCC-T15C-E	15” Color TFT, Enhanced CE 4.2 PP, Nema 1 FDA Compliant	$2,099	3-DAY

Enhanced CE Computers with Windows CE Professional Plus offer:

- File viewers such as Acrobat, Excel, Word, PowerPoint, Image and Internet Explorer for Windows CE

15” TFT Color Dimensions



EZMonitor™

Best Value NEMA 4X Flat Panel Touchscreen Monitors



THE MOST SENSIBLE INDUSTRIAL MONITOR

Innovate'n'Save™

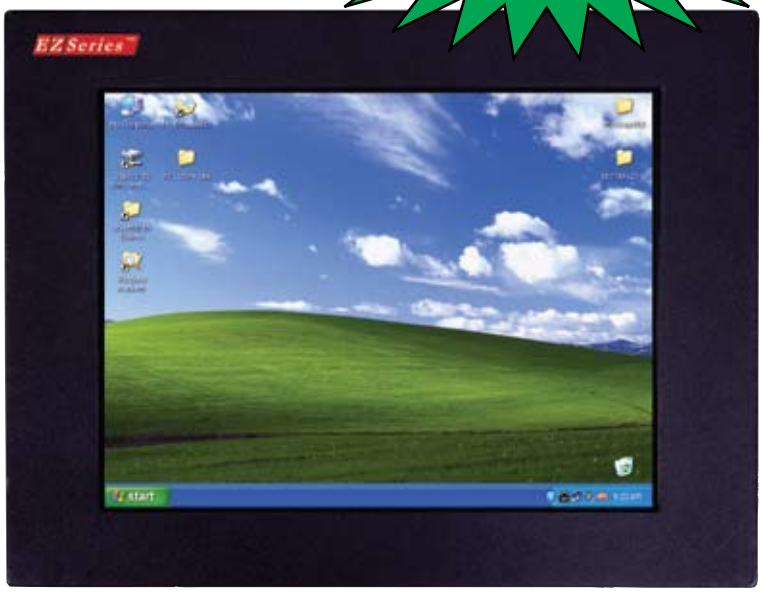
EZMonitor™

The Most SENSIBLE Industrial Strength Flat Panel Touchscreen Monitors

What is EZMonitor?

EZMonitor is an industrial strength display that can be used with any standard, commercial or industrial computer. All you need is a standard VGA port to connect EZMonitor to your computer. EZMonitor offers solution for industrial environments not suited for standard commercial monitors.

Starting At $999



What does it have?

- Nema 4,4x Enclosure
- Powder Coated Aluminum Bezel
- Rugged Metal Chassis
- Hard Coated Screen Surface (3H)
- Analog Resistive Touch Screen
- TFT LCD Displays
- Plug-n-Play Setup
- Standard VGA Input Signal
- Wide Viewing Angles
- Anti-Glare Treated Front Polarizer
- Minimal Power Consumption
- 40-50K Hours Rated Half Life
- 12VDC Power Input
- Electrical Noise Immunity
- External Buttons for Power and Display Control
- Minimal Mounting Depth (Slim Design), 1.9”
- Ultra LOW Heat Build-up
- UL, CUL, CE certification**

Where does it make sense?

Use EZMonitors to display information from your PC based controls any where on your plant floor. It has excellent noise, shock, and vibration ratings to survive the toughest plant conditions thus providing you with an opportunity to utilize your information right where you need it. Analog resistive touch screen allows user input with the highest resolution and makes user input easier then ever. With EZMonitors you don’t have to buy standard monitors and enclose them in special housings just to survive thermal shock and water-proofing. EZMonitors have Nema 4,4x rated front bezel to provide the strongest protection from water and dusty environments.

** Pending



EZMonitor™

Look at what you get for $999..

Powder Coated Aluminum Bezel
Slim yet sturdy front bezel with industrial hardened studs pressed-in.

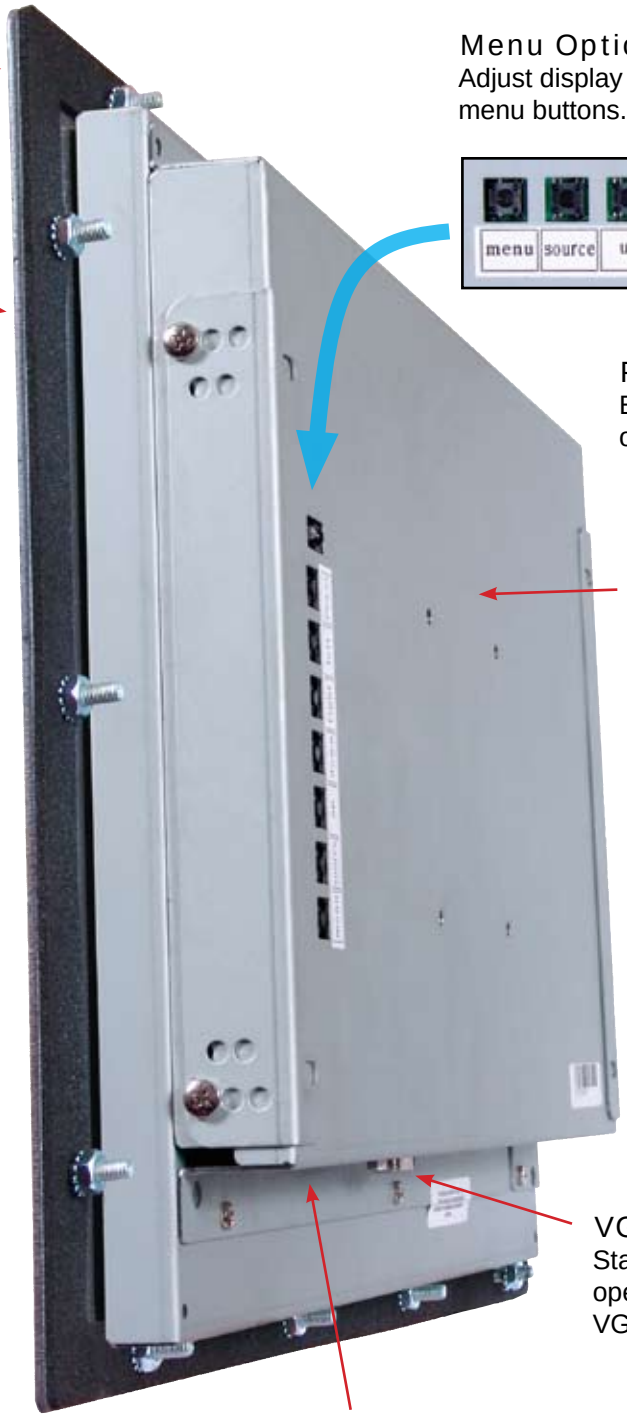
NEMA 4, 4X front
Allows optimum protection against Hosedown and Splashing Water with Corrosion Resistance.

Analog Resistive Touch Screen
Reliable touch screen for tough industrial environments, Glove Proof!

TFT Color Displays
Ultra crisp picture quality with wide viewing angles.

Agency Approvals
UL, CUL, and CE (pending)

6' Industrial VGA Cable
Standard 6' length VGA cable included with every EZMonitor.



Menu Options and Screen Control
Adjust display settings with easy to navigate menu buttons.



Power Control
External power control button on rear end.

Aluminum Chassis
All metallic aluminum chassis with ventilation holes for minimal heat buildup.

Touch Screen Port
Communication port for EZMonitors with Touch Screen.

VGA Port for Signal Input
Standard VGA port for plug-n-play operation with any computer with VGA out.

6' Touch Screen Communication Cable
Standard 6' long touch screen cable included with every Touch Screen model EZMonitor. Touch Screen Drivers included for easy installation with Windows 95, 98, 2000, NT, ME, CE, XP and DOS.

12 VDC Input Power
Take advantage of your existing 12VDC power supply in your system.
Removable Phoenix Terminal Block is provided for the power wiring and is shipped with each EZMonitor.
For 110-240 VAC applications, we can supply wall plug-in 12 Volt power supllies also.

EZMonitor™ Head to Head Comparison

	EZAutomation ***EZ-15MT***	*Ann Arbor Technologies* ***WebLink15M***	*Xycom/Proface* ***5015T***	*Allen Bradley/ Rockwell* ***6186-M15ALT***	*Advantech* ***FPM-3150TVE-T***	*Automation Direct* ***FPM-150-TS***
Display	15" TFT with Touch Screen	15" TFT with Touch Screen	15" TFT with Touch Screen	15" TFT with Touch Screen	15" TFT with Touch Screen	15" TFT with Touch Screen
Resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768
Brightness	250 Nits	NA	300 Nits	250 Nits	350 Nits	450 Nits
Contrast Ratio	350:1	NA	400:1	500:1	250 :1	300 :1
Backlight Life (Half Life)	40,000 Hours	NA	50,000 Hours	50,000 Hours	25,000 hrs	35,000 hrs
Enclosure	NEMA 4, 4X	NEMA 4	NEMA 4/4X/12	NEMA 1/12/13/4/4X	NEMA 4	NEMA 4/12
Operating Temp	0C to +60C	0C to +50C	0C to +50C	0C to +50C	0C to +50C	0C to +50C
Storage Temp	-20C to +65C	-10C to +60C	-20C to +60C	-20C to +60C	-20C to 60C	0C to 60C
Humidity	10% to 90% NC	NA	20% to 80% NC	10% to 90% NC	20% to90% NC	10% to95% NC
Shock with Terminal Block Power Wiring	20g (operating)	10g (operating)	15g (operating)	20g (operating)	NA	NA
Vibration with Terminal Block Power Wiring	2g (operating)	1g (operating)	1g (operating)	2g (operating)	NA	NA
Warranty	2 Year	1 Year	2 Year	1 Year	1 Year	3 Years (TS)
Input Voltage	12 VDC	120 VAC	100-240 VAC	90-264 VAC / 12,24 VDC	90-270 VAC	120/240 VAC
Power Consumption	15 Watts	60 Watts	0.8 A	24 Watts	60 Watts	25 Watts
Mounting Depth	1.9"	2.4"	2.3"	2.28"	3.4"	2.68"
Price	$1,299	$1,495	$1,595	$2,495	$1,399	$1,875

EZMonitor Selection Guide and Specifications

EZMonitor 10”, 12”, 15” and 17” Model Specifications				
Part Number	*EZ-10M* $999 *EZ-10MT* *(Touchscreen)* $1099 *EZ-10MT-S* *(Touchscreen)* $1099	*EZ-12M* $999 *EZ-12MT* *(Touchscreen)* $1199 *EZ-12MT-S* *(Touchscreen)* $1199	*EZ-15M* $1099 *EZ-15MT* *(Touchscreen)* $1299 *EZ-15MT-S* *(Touchscreen)* $1299	*EZ-17M* $1199 *EZ-17MT* *(Touchscreen)* $1499 *EZ-17MT-S* *(Touchscreen)* $1499
				
Display Type	10.4” SVGA TFT Color	12.1” SVGA TFT Color	15” XGA TFT Color	17” SXGA TFT Color
Enclosure	NEMA 4, 4X Front plate			
Active Screen Size (Viewing Area)	211.2x158.4mm	246x184.5mm	304.1x228.1mm	337.9x270.3mm
Display Surface Treatment	Hard Coating (3H), Anti-glare treatment of the front polarizer, HAZE (13%)			
Resolution	800 x 600	800 x 600	1024 x 768	1280 x 1024
Contrast Ratio	400:1	200:1	350:1	350:1
Display Brightness /Half Life Hours	220 nits/40,000	300 nits/50,000	250 nits/40,000	250 nits/50,000
Input Voltage	12VDC			
Power Consumption	Total 10 Watt (typ.)	12 Watt (typ.)	15 Watt (typ.)	30 Watt (typ.)
Agency Approval	UL, CUL, CE (pending)			
Operating Temperature	0° to 60°C			
Storage Temperature	-20° to 65°C			
Humidity	10-90% RH			
Life Time	4 0,000 Hours	50,000 Hours	40,000 Hours	50,000 Hours
Electrical Noise	NEMA ICS showering arc approval pending			
*Vibration **with Terminal Block Power Wiring***	2.0G, 0.37oct/min 3 axis, 1 hour/axis			
*Shock **with Terminal Block Power Wiring***	20G, 2ms one shock of each six faces			
Ext. Dimensions	12.10” x 9.7” x 1.75”	13.45” x 10.50” x 2.12”	16.25” x 12.50 x 1.9”	18.25” x 14.50” x 2.18”
Weight	5.5 lbs.	6.1 lbs	7.0 lbs	10.51 lbs

EZMonitor Accessories			
Part Number	***Description***	***Price***	***Del.***
EZ-MPS-A	Molded design cord set power supply: Input: 110V-240VDC at 50-60Hz, Output: 12VDC, 3.3A	$39	STK
EZ-MPS-B	Molded design cord set power supply: Input: 110V-240VDC at 50-60Hz, Output: 12VDC, 5A	$49	STK
EZ-MVCBL-10	10’ shielded video cable	$29	STK
EZ-MVCBL-25	25’ shielded video cable	$49	STK
EZ-MVCBL-50	50’ shielded video cable	$75	STK
EZ-TERM3	3 Point Terminal Block adapter for power input	$29	STK

EZMonitor™ 10” TFT Industrial LCD Monitor

10” Color - Flat Panel Monitor

EZMonitors 10” Industrial Displays have a 10.4” diagonal LCD screen with 800x600 SVGA resolution. 10” displays are available in two models, one with Analog Resistive Touch Screen and one without. EZMonitors have powder coated aluminum bezel, sturdy aluminum chassis and Nema 4,4x front rating.



Features:

- 800 x 600 SVGA
- NEMA 4, 4X Front
- Powder Coated Aluminum Bezel
- Rugged Metal Chassis
- Hard Coated Screen Surface (3H)
- Anti-Glare Treated Front Polarizer
- Analog Resistive Touch Screen*
- USB Plug-n-Play Setup or Serial/PS2 Setup
- Wide Viewing Angles
- 40K Hours Rated Half Life
- 24VDC Power Input
- Electrical Noise Immunity
- External Buttons for Power and Display Control
- 12.10” x 9.7” x 1.75”

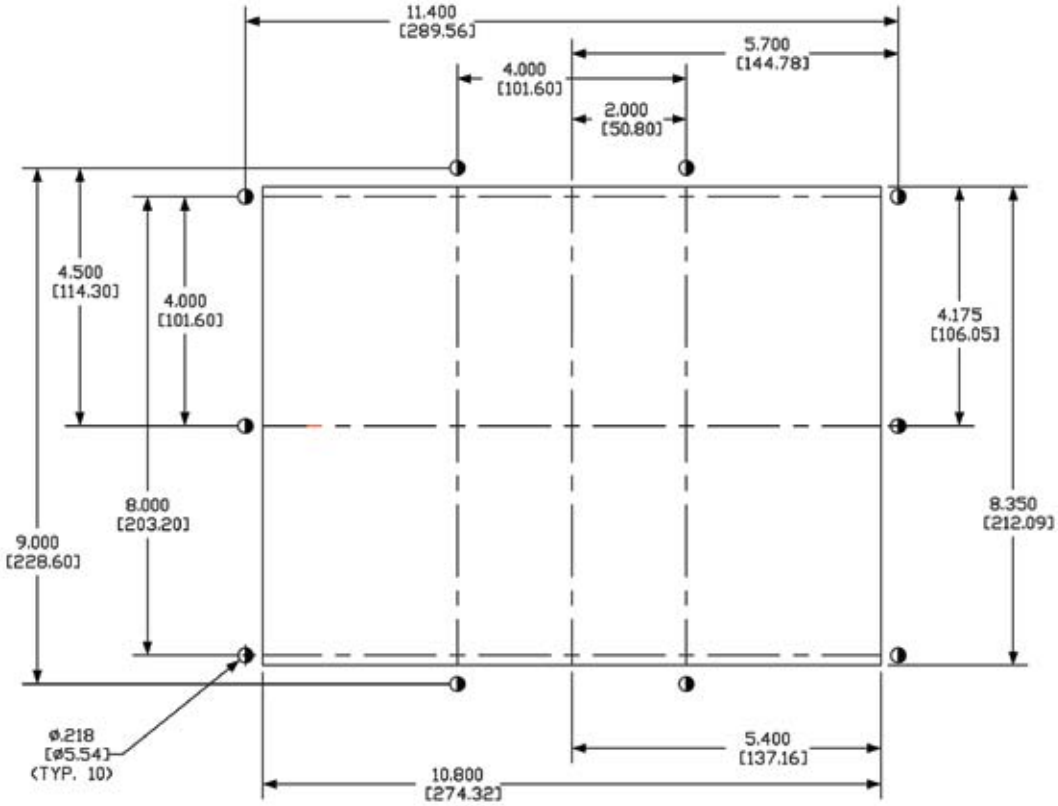
** Touch screen models*

Model Number	Touch Screen Option	Price	Del.
EZ-10M	10” SVGA TFT Color Display - Nema 4/4X	$999	STK
EZ-10MT	10” SVGA TFT Color Display with Touch Screen Nema 4/4X (USB Setup)	$1,099	STK
EZ-10MT-S	10” SVGA TFT Color Display with Touch Screen Nema 4/4X (Serial Setup)	$1,099	STK

12VDC Molded Cord Set Power Supply (optional)		Price	Del.
EZ-MPS-A	Molded design provides a reliable power source Indoor Use Only. UL, CE listed Input: 100V-240VDC at 50-60Hz Output: 12VDC, 3.33A	$39	STK



10” EZMonitor Cutout Dimensions



Included with every Touch Screen model of EZMonitor:

- 6’ Touch Screen Communication Cable (choice of USB or Serial)
- 6’ Standard VGA Cable



EZMonitor™ 12” TFT Industrial LCD Monitor

12” Color - Flat Panel Monitor

EZMonitors 12” Industrial Displays have a 12.1” diagonal LCD screen with 800x600 SVGA resolution. 12” displays are available in two models, one with Analog Resistive Touch Screen and one without. EZMonitors have powder coated aluminum bezel, sturdy aluminum chassis and Nema 4,4x front rating.



Features:

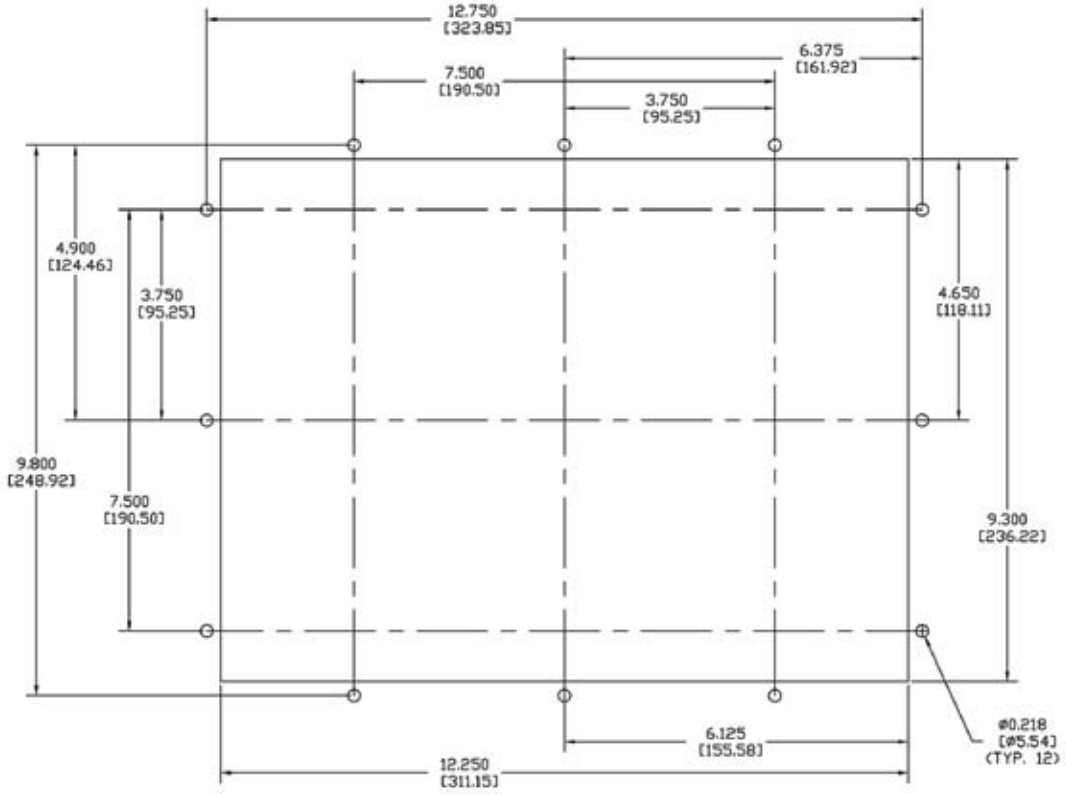
- 800 x 600 SVGA
- Nema 4,4x Enclosure
- Powder Coated Aluminum Bezel
- Rugged Metal Chassis
- Hard Coated Screen Surface (3H)
- Anti-Glare Treated Front Polarizer
- Analog Resistive Touch Screen*
- Plug-n-Play Setup
- Wide Viewing Angles
- 50K Hours Rated Half Life
- 24VDC Power Input
- Electrical Noise Immunity
- External Buttons for Power and Display Control
- 13.45” x 10.5” x 2.12”

** Touch screen models*

Model Number	Touch Screen Option	Price	Del.
EZ-12M	12” SVGA TFT Color Display - Nema 4/4X	$999	STK
EZ-12MT	12” SVGA TFT Color Display with Touch Screen Nema 4/4X (USB Setup)	$1,199	STK
EZ-12MT-S	12” SVGA TFT Color Display with Touch Screen Nema 4/4X (Serial Setup)	$1,199	STK

12VDC Molded Cord Set Power Supply (optional)		Price	Del.
EZ-MPS-A	Molded design provides a reliable power source Indoor Use Only. UL, CE listed Input: 100V-240VDC at 50-60Hz Output: 12VDC, 3.33A	$39	STK

12” EZMonitor Cutout Dimensions





Included with every Touch Screen model of EZMonitor:

- 6’ Touch Screen Communication Cable (choice of USB or Serial)
- 6’ Standard VGA Cable



EZMonitor™ 15” TFT Industrial LCD Monitor

15” Color - Flat Panel Monitor

EZMonitors 15” Industrial Displays have a 15” diagonal LCD screen with 1024x768 XGA resolution. 10” displays are available in two models, one with Analog Resistive Touch Screen and one without. EZMonitors have powder coated aluminum bezel, sturdy aluminum chassis and Nema 4,4x front rating.



Features:

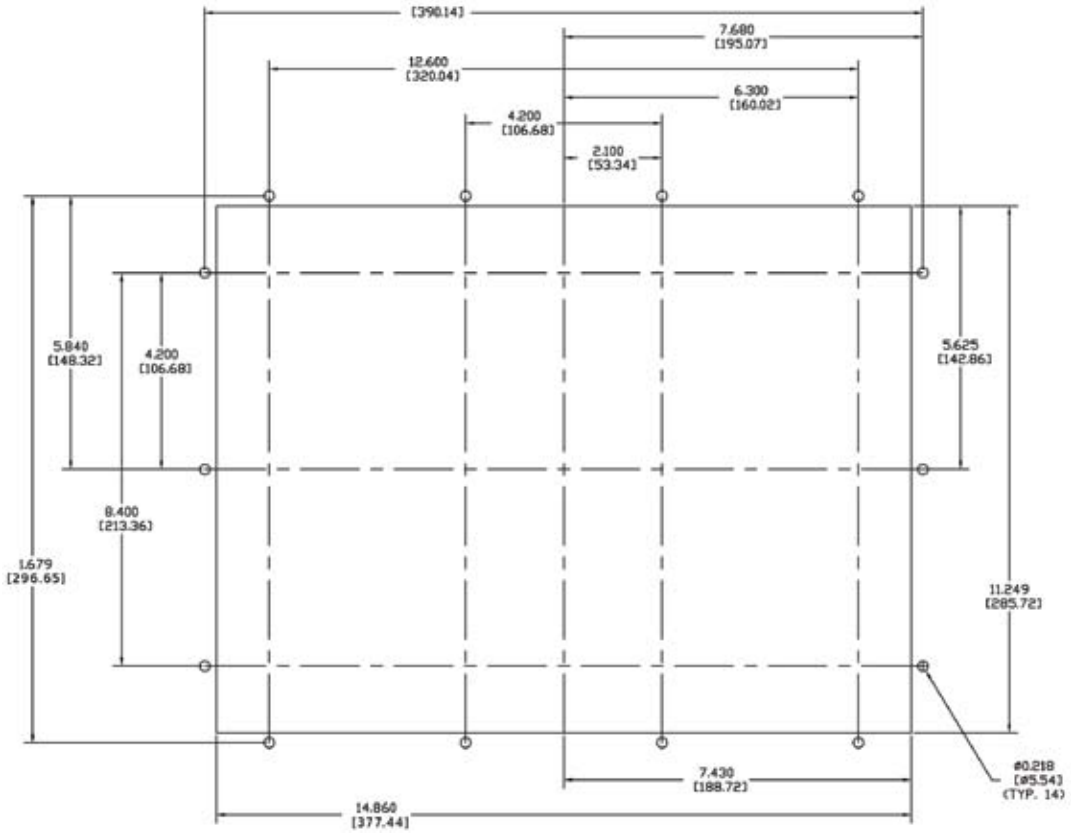
- 1024 x 768 XGA
- Nema 4,4x Enclosure
- Powder Coated Aluminum Bezel
- Rugged Metal Chassis
- Hard Coated Screen Surface (3H)
- Anti-Glare Treated Front Polarizer
- Analog Resistive Touch Screen*
- Plug-n-Play Setup
- Wide Viewing Angles
- 40K Hours Rated Half Life
- 24VDC Power Input
- Electrical Noise Immunity
- External Buttons for Power and Display Control
- 16.25” x 12.5” x 1.9”

** Touch screen models*

Model Number	Touch Screen Option	Price	Del.
EZ-15M	15” XGA TFT Color Display - Nema 4/4X	$1,099	STK
EZ-15MT	15” XGA TFT Color Display withTouch Screen Nema 4/4X (USB Setup)	$1,299	STK
EZ-15MT-S	15” XGA TFT Color Display withTouch Screen Nema 4/4X (Serial Setup)	$1,299	STK

12VDC Molded Cord Set Power Supply (optional)		Price	Del.
EZ-MPS-A	Molded design provides a reliable power source Indoor Use Only. UL, CE listed Input: 100V-240VDC at 50-60Hz Output: 12VDC, 3.33A	$39	STK

15” EZMonitor Cutout Dimensions





Included with every Touch Screen model of EZMonitor:

- 6’ Touch Screen Communication Cable (choice of USB or Serial)
- 6’ Standard VGA Cable



EZMonitor™ 17" TFT Industrial LCD Monitor

17" Color - Flat Panel Monitor

EZMonitors 17" Industrial Displays have a 17" diagonal LCD screen with 1280x1024 SXGA resolution. 17" displays are available in two models, one with Analog Resistive Touch Screen and one without. EZMonitors have powder coated aluminum bezel, sturdy aluminum chassis and Nema 4,4x front rating.



Features:

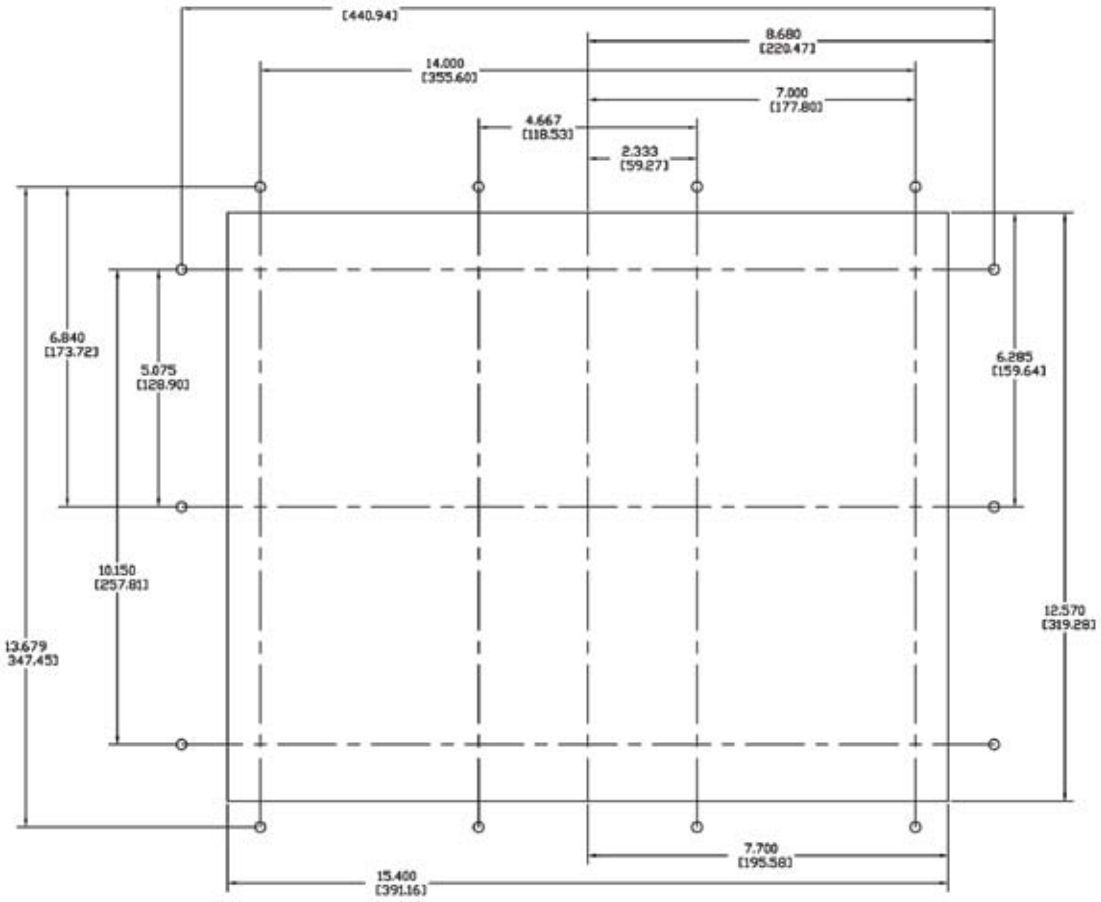
- 1280 x 1024 SXGA
- Nema 4,4x Enclosure
- Powder Coated Aluminum Bezel
- Rugged Metal Chassis
- Hard Coated Screen Surface (3H)
- Anti-Glare Treated Front Polarizer
- Analog Resistive Touch Screen*
- Plug-n-Play Setup
- Wide Viewing Angles
- 50K Hours Rated Half Life
- 24VDC Power Input
- Electrical Noise Immunity
- External Buttons for Power and Display Control
- 18.25" x 14.5" x 2.18"

** Touch screen models*

Model Number	Touch Screen Option	Price	Del.
EZ-17M	17" SXGA TFT Color Display - Nema 4/4X	$1,199	STK
EZ-17MT	17" SXGA TFT Color Display with Touch Screen Nema 4/4X (USB Setup)	$1,499	STK
EZ-17MT-S	17" SXGA TFT Color Display with Touch Screen Nema 4/4X (Serial Setup)	$1,499	STK

12VDC Molded Cord Set Power Supply (optional)		Price	Del.
EZ-MPS-B	Molded design provides a reliable power source Indoor Use Only. UL, CE listed Input: 110V-240VDC at 50-60Hz Output: 12VDC, 5A	$49	STK

17" EZMonitor Cutout Dimensions





Included with every Touch Screen model of EZMonitor:

- 6' Touch Screen Communication Cable (choice of USB or Serial)
- 6' Standard VGA Cable



EZAutomation

Become an EZ-VAR

We believe that our customers do not have to sacrifice local support to get SENSIBLE prices on Automation products. Qualified Value Added Resellers do perform a true value added function in providing extra local inventory in case a customer can not wait for next day shipment, in providing local technical support for customers who may need extra start-up assistance or simply providing the face to face interface with a real live person preferred by many customers.

The EZ-VAR program is real EZ, in line with our philosophy of making it real EZ for anyone to do business with us. Specifically, the EZ-VAR program has the following key provisions:

1. Nonstocking or stocking options
2. Modest inventory for those who choose stocking option with the most liberal stock rotation priviledges.
3. We do not limit you to carry competitive products because we believe that our products will speak for themselves.

We do, however, require serious factory training so that you can provide the value added services our customers may need.

Sell the Most SENSIBLE Automation Products, Made in America, with Twice the Features at Less than Half the Cost!



EZ TO SELL, EZ TO SUPPORT AND EZ TO MAKE MONEY!

Become an EZ-SI

System Integrators today are playing an increasingly important role in helping manufacturing plants become more efficient. EZAutomation values this important service to our industry.

We also believe that the system integrators need to make a decent margin in order to continue providing the technical expertise/assistance to our customers. We offer a good incentive program for those who choose to become EZ-SI's.

Apply the Most Innovative and SENSIBLE Automation Products with the Highest Value and Reliability



EZ AS 1-2-3

Provide the Most Cost Effective Solution to Your Customer with an Added Incentive from EZAutomation



Contact EZ-VAR/SI Hotline for further details!

Please call 1-877-774-EASY ext 312