

Light-Duty Industrial
PC Computers

Heavy-Duty Industrial
Flat Panel Monitors

PC Accessories

Heavy-Duty Industrial
PC Computers

Node PC Computers

Technical Notes

Pro-face



Setting the Standards:
New Generations of Industrial PC Technology

profaceamerica.com

CELEBRATING
35 Years
of Industrial
Automation
Solutions

Pro-face

Pro-face

**Globally Recognized,
Globally Supported,
Globally Trusted.**



- ||| We are the leading independent global supplier of industrial computing and visualization solutions for automation and manufacturing applications.
- ||| We are recognized worldwide for innovative designs with the industry's highest quality and reliability.
- ||| We offer the most extensive product offering of HMI touchscreens available with the highest levels of system and network connectivity.



A Company You Can Depend On

- ||| Over 35 years providing industrial Human Machine Interface (HMI) technology
- ||| Pro-face and Xycom brands the most trusted names in the industry
- ||| World-wide applications support teams ready to help you
- ||| Serving over 50 countries, Pro-face has 17 main offices with 1200 + employees
- ||| We speak your language, *English, Spanish, Japanese, etc.*
- ||| We have a vast distribution network to provide products quickly anywhere



Pro-face

Operator Interfaces,
Industrial PCs & Monitors

XYCOM™

Industrial PCs & Monitors

World-class products, service, support, and reliability.



A Choice of HMI Technology Solutions

Dedicated Operator Interfaces

- ||| Performance-Built Factory Workhorse Graphical Touchscreens
- ||| Extensive Hardware and Software Connectivity
- ||| Use for Maximum Reliability and Dependability of HMI Applications
- ||| 100% Solid State Design



Open Platform Industrial PCs

- ||| Windows® XP, 2K Based Industrial PC Touchscreen Systems
- ||| Built to Withstand High Vibration, Shock, and Temperature Environments
- ||| Built-in Redundancy Using Raid Enabled Option
- ||| New Innovative Technology Sends Alert When PC System Status Is Out of Tolerance
- ||| Solid State Drive Options Available



Operator Interface Plus Control

- ||| Combined Operator Interface and PLC Logic Control in One Package
- ||| Supported by One Software Package
- ||| Offers Significant Reduction in System Cost and Panel Space
- ||| Ultra Low Maintenance



Flat Panel Touchscreen Monitors

- ||| Highly Detailed Graphical Interface With Built-in Touchscreen
- ||| Sizes From 10" to 19" Plus Built-in Keypad Option on Some Models
- ||| Sleek Innovative Styling
- ||| Global Certifications and Ratings



Investment Protection

Built into every unit is investment protection. Our investment protection is all about keeping your machine current with the latest technologies, while minimizing migration costs and disruptions to the existing installation.

Minimize your total cost of ownership:

- Pro-face and Xycom brand products have maintained cut-out compatibility for over 21 years
- Upgrade your machine with more capabilities without altering the original design
- Recognized by the industry for providing significant savings to our customers
- It's all included, No product migration service contracts required

No other Industrial PC and Operator Interface Supplier can guarantee long term investment protection value backed by a 21 year track record.

Lowering Your Total Cost of Ownership!



Celebrating Over 21 Years of Cutout Compatibility!

Industrial PC Solutions

Pro-face and Xycom brand products offer a line of Light Duty and Heavy Duty Industrial PCs, designed to match your application environment while saving your budget. Match the type of PC to your environment for best performance.

NEW!

How's My PC Feeling? Pro-face Innovative Instant Alert Feature

Reliability - Availability - Serviceability (RAS)

A Powerful Built-in System Monitor to Provide Early Warning of Component Failure

RAS Monitors:

- Hard Drive Health
- Fan Speed
- Internal PC Temperature
- Power and Voltages
- Watchdog Timers
- Backlight Status
- Smart Alarms

How Does it Help You?

- Provides early warning of component failure
- Initiates safe system shutdown
- Lets you know status and availability of the PC
- Displays Pop-up message on system alarm event
- Sends alarms to remote PC in Control Room to immediately alert staff (requires Pro-Server EX)

How to Use:

- Reduce accidental un-controlled costly system shutdowns
- Use remote reset command to perform a PC reset for restricted access areas
- Network and monitor health of multiple Pro-face IPCs from remote location
- Use as local and remote Diagnostics Tool monitoring a suspected PC problem
- Use to enhance preventative maintenance scheduling for PC

SAVE **\$\$\$\$** and **TIME** using **RAS** to increase your overall system Reliability, Availability, and Serviceability.

RAS feature found in Pro-face brand Light Duty IPC PS3000 series.

LIGHT DUTY INDUSTRIAL PC

These industrial PCs are a cost effective solution for applications with temperature controlled clean environments

Features:

- Pro-face IPC brands include powerful RAS features
- 8.4" thru 17" touchscreen PCs available
- XP Professional operating system standard
- Solid state operation via bootable CompactFlash™ option available
- Front access USB port to retrieve or store data files without opening panel
- 1 year warranty



Environment:

- Clean and controlled environments
- Limited shock and vibration
- Limited exposure to extreme temperature variations
- Limited dust and airborne contaminants
- Limited exposure to corrosive chemicals

Certifications:

- UL, cUL non-hazardous locations
- RoHS
- CE
- NEMA 4/4x/12

General:

- Reduced set of configurable options for fast product delivery
- Light Duty Industrial PCs experience more product updates over time versus our Heavy Duty Industrial PCs



The following tables summarizes the capabilities and recommended industrial environments for Light-Duty Industrial PCs and the more robust Heavy-Duty Industrial PCs

FEATURE / SPECIFICATION	LIGHT-DUTY OFFERINGS
Keypads	Not Available
NEMA Hosedown (4/4X/12)	May not be Available
Long-term Availability	May not be Available
Extended Operating Temperature (50° C maximum)	Not Recommended
High Shock and Vibration	Not Recommended
Approval for Hazardous Locations	Not Available
High Level of Configurability	Not Available
Warranty	1 Year Standard



HEAVY DUTY INDUSTRIAL PC

These industrial PCs are designed for harsh industrial environments offering the highest quality and reliability.

Features:

- Follows Intel® embedded CPU roadmap for long term product availability
- RAID Level 1 option, redundant hard drives
- Keypad, Industrial Mouse, Touchscreen options available
- Solid State bootable CompactFlash™ option available
- Solid State node boxes features No Hard Drive or Fan
- 12" and 15" touchscreen PCs available
- Pre-installed XP professional or 2K operating systems
- In-Panel Serviceability - back of unit detaches from panel when servicing
- 2 year warranty

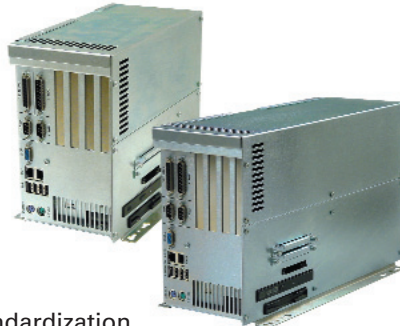


Environment:

- Suitable for environments with Shock and Vibration
- Withstands exposure to extreme temperature variations
- Withstands limited exposure to corrosive chemicals
- Front panel sealed for resistance to foreign contaminants

Certifications:

- UL, cUL Class 1 Div 2 Groups ABCD Hazardous location
- CE
- NEMA 4/4x/12



General:

- Full set of configurable options
- Recommended for product standardization with minimal changes over life of product
- Modifications and customization services available.

FEATURE / SPECIFICATION	HEAVY-DUTY OFFERINGS
Keypads	Available
NEMA Hosedown (4/4X/12)	Available
Long-term Availability	Available
Extended Operating Temperature (50° C maximum)	Acceptable
High Shock and Vibration	Acceptable
Approval for Hazardous Locations	Available
High Level of Configurability	Available
Warranty	2 Year Standard

Redundancy for Mission Critical Applications

Raid-Enabled Industrial PCs . . . When Downtime is Not An Option.

*** Data Protection * Backup * Recovery**

RAID (Redundant Array of Independent Disks)

Raid-Enabled PC Features:

- Automatic internal hard drive back-up
- No software dependency for increased data and system integrity
- Pre-configured from factory - Out-of-box implementation
- 100% Complete redundancy of data and operating system
- Reduce or eliminate high downtime costs

Method Used:

- **Raid Level 1** - Dual Redundant hard drives hard wired to same SCSI or IDE controller
- **Hardware mirroring** - Automatically copies data to both hard drives creating identical drive images
- **Automatic Switchover and Recovery** - When a hard drive fails, the other identical drive takes over while the raid controller re-creates the image on the replaced drive.

How Does it Help You?

- **Protection** of mission critical data and operating system without relying on backup software
- **Fault tolerant** - Increased system reliability and dependability
- **Built-in Recovery** - Eliminate costly downtime by replacing the failed drive while secondary drive keeps PC functioning
- Hard wired, data backup with no software dependency

Available Pro-face Systems:

- Xycom brand node boxes 1546, 1547
- Xycom brand Industrial PCs: 4600/4700 Heavy Duty Series



Reduce Your Risks - Losing data is costly, take advantage of the benefits of a Raid-enable PC by protecting your critical systems.

Reasons for Choosing a Pro-face Industrial Computer

SETTING THE GLOBAL STANDARDS: MEETING THE INDUSTRIAL AUTOMATION APPLICATION NEEDS

Pro-face Industrial Computers are each custom designed and built to your specifications from the ground up. We use high quality components that undergo extensive testing to provide you the very best rugged and dependable industrial PC available today. Consider this check list when comparing other brand PCs.

INDUSTRIAL REQUIREMENTS		PRO-FACE RESPONSE
Resistance to foreign containment penetration	✓	NEMA-rated screens and PCs (4/4X/12) for industrial indoor and outdoor use
For use in Hazardous Locations	✓	UL listed (UL 1604) and cUL listed (CSA 213)
Easy integration into an industrial control panel	✓	UL 508 Listed for inclusion in the UL 508A Control Panel Builders Program
To avoid electromagnetic interference with or from other electrical equipment	✓	Meets FCC 47 CFR, Part 15, Class A and the EU EMC directive (CE)
Environmental (Green) issues	✓	Meets European Union RoHS directives
Reliable operation of operator input components	✓	Membrane keypad units and touchscreen units are designed for use with gloved hands; keypad buttons will exceed one million cycles before failure; most industrial chemicals won't affect touchscreens
One touch operator input capability	✓	Relegendable membrane keypads
Low voltage power sources requirement	✓	Computer may be driven by 24 VDC power
High ambient temperature operating environment	✓	At ambient temperatures up to 50° C all components remain below maximum temperature specifications
Corrosive atmosphere resistance	✓	NEMA-rated, bezel chemical resilience specifications available
Vibration and Shock loading resistance	✓	Our diskless products (no rotating media) exceed industrial shock and vibration requirements
Maximize uptime	✓	Units are "burned-in" at the factory (shock & vibration tested on the line & 24-hour burn-in). ISO 9001:2000 certified; UL, CSA, and CE approvals
Compatibility with legacy products	✓	Units are backward compatible
Software compatibility of new and old equipment	✓	Pro-face strives for compatibility between new and legacy software and hardware - HMI Investment Protection



Need a Customized Solution?

Here's what we offer . . .

Modification Type	
✓	Hard Drive Upgrades
✓	Memory Upgrades
✓	Solid State Hard Drive Addition
✓	Custom Logos
✓	Dual Boot Operating Systems
✓	Pre-Loading Off-the-Shelf Software Packages
✓	Various CompactFlash™ Solutions
✓	Modem Installation
✓	Variety of PC Network Cards
✓	Device Network Interface Additions
✓	Various PCI, ISA, PC/104 Expansion

**Contact Your Local Representative
for More Information**
Visit www.profaceamerica.com

Light-Duty Industrial PC Computers

XYCOM



1510

NEW
Includes RAS Feature



PS3450

NEW
Includes RAS Feature



PS3650A

NEW
Includes RAS Feature



PS3710A



4117T

XYCOM

	Brand	Xycom	Pro-face	Pro-face	Pro-face	Xycom
PC Technology	Color Flat Panel Display	N/A	8.4" TFT	12.1" TFT	15" TFT	17" TFT
	Display Resolution	N/A	800 x 600 SVGA	1024 x 768 XGA	1024 x 768 XGA	1280 x 1024 SXGA
	Processor	Intel® Pentium® 4 3.0 GHz	Intel® Celeron® M 1.0 GHz	Intel® Celeron® M 1.3 GHz	Intel® Pentium®M® 1.6 GHz	Intel® Pentium® M 1.4 GHz
	Memory	512MB to 2GB DRAM	1 GB Standard	512MB to 1GB	512MB to 2GB SO-DIMM	512MB to 2GB DRAM
	Front Panel Input Device	N/A	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen
	Onboard Features	Two USB Ports, Dual 10/100 Mbps Ethernet Ports, 4X AGP Graphics Controller, Parallel Port, Audio, Two RS-232 Ports	Four USB Ports (2.0), One RS-232 Port, One RS-232/ RS-422/485 Port, Audio Output, Wake On LAN, 1x 10/100, Base-T + 1x GB Ethernet, RAS Support: See Feature Inset	Five USB Ports, One RS-232 Serial Port, Two 10/100 Ethernet Ports, Audio Output, RAS Support: See Feature Inset	Four USB Ports, Three RS-232 Ports, One Selectable RS-232/422/485 Port, Audio In/Out/MIC, 1x 10/100 Base-T + 1x GB Ethernet, RAS Support: See Feature Inset	Two USB 2.0 Ports, Three Serial Ports, Audio In/Out/MIC, 10/100 and 10/100/1000 Base-T Ethernet ports, Parallel, PS/2 Keyboard and Mouse, 4X AGP Graphics Controller with up to 64MB Video RAM
	Expansion	Ten Slot Passive Backplane: Two Full Length ISA, Three Full Length PCI; One Half Length PCI Available	Two Externally Accessible Bootable CompactFlash™ Slots, One PCI 2.2 Slot (106mm)	Bootable CompactFlash™ Slot, One PCI 2.2 Slot (165 mm length), One PCMCIA Type II Slots	Bootable CompactFlash™ Slot, One PCI 2.2 Slot (230 mm length), Two PCMCIA Type II Slots	One half-length PCI Slot, Externally Accessible CompactFlash™ Slot
	Storage	IDE Hard Drive	IDE Hard Drive	IDE Hard Drive	IDE Hard Drive	IDE Hard Drive
	Removable Media	1.44 MB Floppy Drive DVD R/W	USB Front Panel Access Port	USB Front Panel Access Port	1.44 MB Floppy Drive DVD ROM, USB memory	DVD R/W
	General	Mounting	Wall or Shelf	Panel	Panel	Panel
Operating System		Windows® XP/2000	Windows® XP* Pro	Windows® 2000/XP	Windows® 2000/XP	Windows® XP/2000
Standards & Ratings		UL, cUL, CE, FCC	NEMA 4/4X/12 CE, CSA, FCC, RoHS compliant	NEMA 4/4X/12, UL, CE, CSA, FCC, RoHS compliant	NEMA 4/4X/12, UL, CE, CSA, FCC, RoHS compliant	NEMA 4/4X/12 UL, cUL, CE, FCC RoHS compliant
Weight		24.3 lbs / 11.0 kg	8.8 lbs / 4.0 kg - unit	9.92 lbs / 4.5 kg - unit only	17.64 lbs / 8 kg	29 lbs / 13.15 kg
Warranty		1-year standard	1-year standard	1-year standard	1-year standard	1-year standard
Options	Options	Flat Panel Monitor, Extended Warranty	CF Card, Protection Sheets, Extended Warranty	CF Card, Protection Sheets, Extended Warranty	CF Card, Protection Sheets, Extended Warranty	Extended Warranty
Dimensions	Height	12.99" / 329.99 mm	6.97" / 177 mm	9.41" / 239 mm	12.17" / 309mm	14.0" / 355.6 mm
	Width	6.763" / 171.78 mm	9.06" / 230 mm	12.31" / 313 mm	16.14" / 410 mm	17.8" / 452.1 mm
	Depth	16.06" / 407.9 mm	4.72" / 120 mm	4.06" / 103 mm	3.94" / 100 mm	5.32" / 135.1 mm
	Mounting Depth	See product datasheet at www.profaceamerica.com	4.52" / 115 mm	3.86" / 98 mm	3.73" / 94.7 mm	4.93" / 125.2 mm



Get more info on these and more products!
Visit www.profaceamerica.com

Xycom Heavy-Duty Industrial PC Computers



4612T



4612KPM



4615T



4615KPM

	Brand	Xycom	Xycom	Xycom	Xycom
PC Technology	Color Flat Panel Display	12.1" TFT	12.1" TFT	15.0" TFT	15.0" TFT
	Display Resolution	800 x 600 SVGA	800 x 600 SVGA	1024 x 768 XGA	1024 x 768 XGA
	Processor	Intel® Celeron® M 1.3 GHz or Optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz or Optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz or Optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz or Optional Pentium® M 2.0 GHz
	Memory	512MB to 2GB DRAM	512MB to 2GB DRAM	512MB to 2GB DRAM	512MB to 2GB DRAM
	Front Panel Input Device	Analog Resistive Touchscreen	Reprogrammable 74-position Keypad and Industrial Mouse	Analog Resistive Touchscreen	Reprogrammable 74-position Keypad and Industrial Mouse
	Onboard Features	4X AGP Graphics Controller Four USB 2.0 Compliant Ports 10/100 and 10/100/1000 Base-T Ethernet Ports, Two RS-232 Ports, One Selectable RS-232/422/485 Port	4X AGP Graphics Controller Four USB 2.0 Compliant Ports 10/100 and 10/100/1000 Base-T Ethernet Ports, Two RS-232 Ports, One Selectable RS-232/422/485 Port	4X AGP Graphics Controller Four USB 2.0 Compliant Ports 10/100 and 10/100/1000 Base-T Ethernet Ports, Two RS-232 Ports, One Selectable RS-232/422/485 Port	4X AGP Graphics Controller Four USB 2.0 Compliant Ports 10/100 and 10/100/1000 Base-T Ethernet Ports, Two RS-232 Ports, One Selectable RS-232/422/485 Port
	Expansion	One (8.0" max.) PCI, Two (9.0" max.) PCI, and One (9.0" max.) PCI or ISA	One (8.0" max.) PCI, Two (9.0" max.) PCI, and One (9.0" max.) PCI or ISA	One (8.0" max.) PCI, Two (9.0" max.) PCI, and One (9.0" max.) PCI or ISA	One (8.0" max.) PCI, Two (9.0" max.) PCI, and One (9.0" max.) PCI or ISA
	Storage	Easily Removable Serial ATA Hard Disk, or CompactFlash™ Drive	Easily Removable Serial ATA Hard Disk, or CompactFlash™ Drive	Easily Removable Serial ATA Hard Disk, or CompactFlash™ Drive	Easily Removable Serial ATA Hard Disk, or CompactFlash™ Drive
	Removable Media	DVD R/W	DVD R/W	DVD R/W	DVD R/W
	General	Mounting	Panel	Panel	Panel
Operating System		Windows® XP/2000	Windows® XP/2000	Windows® XP/2000	Windows® XP/2000
Standards & Ratings		NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location
Weight		22 lbs / 10 kg	24 lbs / 10.9 kg	25 lbs / 11.34 kg	27 lbs / 12.4 kg
Warranty		2-year standard	2-year standard	2-year standard	2-year standard
Options	Options	Floppy, Dual Hard Drives, Raid-enabled, Extended Warranty	Floppy, Dual Hard Drives, Raid-enabled, Touchscreen, Extended Warranty	Floppy, Dual Hard Drives, Raid-enabled, Extended Warranty	Floppy, Dual Hard Drives, Raid-enabled, Touchscreen, Extended Warranty
Dimensions	Height	11.00" / 279.4 mm	12.45" / 316.2 mm	12.62" / 320.5 mm	13.97" / 354.8 mm
	Width	13.00" / 330.2 mm	16.70" / 424.2 mm	16.59" / 421.4 mm	19.00" / 482.6 mm
	Depth	7.4" / 187.0 mm	7.4" / 187.0 mm	7.59" / 192.8 mm	7.64" / 194.0 mm
	Mounting Depth	6.32" / 160.5 mm	6.36" / 161.5 mm	6.59" / 167.4 mm	6.60" / 167.6 mm



Xycom Heavy-Duty Industrial PC and Node Computers



4715T



4715KPM



1546 / 1547



1341

	Brand	Xycom	Xycom	Xycom	Xycom
PC Technology	Color Flat Panel Display	15.0" TFT	15.0" TFT	N/A	N/A
	Display Resolution	1024 x 768 XGA	1024 x 768 XGA	N/A	N/A
	Processor	Intel® Celeron® M 1.3 GHz or Optional Pentium® M, 2.0 GHz	Intel® Celeron® M 1.3 GHz or Optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz, or Optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz
	Memory	512MB to 2GB DRAM	512MB to 2GB DRAM	512MB to 2GB DRAM	512MB to 1GB DRAM
	Front Panel Input Device	Analog Resistive Touchscreen	Reprogrammable 74-position Keypad and Industrial Mouse	N/A	N/A
	Onboard Features	4X AGP Graphics Controller Four USB 2.0 Compliant Ports 10/100 and 10/100/1000 Base-T Ethernet Ports, Two RS-232 Ports, One Selectable RS-232/422/485 Port	4X AGP Graphics Controller Four USB 2.0 Compliant Ports 10/100 and 10/100/1000 Base-T Ethernet Ports, Two RS-232 Ports, One Selectable RS-232/422/485 Port	Four USB 2.0 Compliant Ports, 10/100, and 10/100/1000 Base-T Ethernet, 4X AGP Graphics Controller with up to 32MB Video RAM	Four USB 2.0 Compliant Ports, 10/100 Base-T Ethernet, Parallel, Four RS-232 Ports
	Expansion	Four Available Full-length Slots: Three PCI, One PCI or ISA Expansion Slot	Four Available Full-length Slots: Three PCI, One PCI or ISA Expansion Slot	1546: Four PCI Expansion slots, (One 8.0" max., Two 9.0" max., One 9.0" PCI or ISA Expansion Slot) 1546: Three PCI and One PCI or ISA Full Length Expansion Slots	One Half-length PCI Expansion Slot
	Storage	Easily Removable Serial ATA Hard Disk, or CompactFlash™ Drive	Easily Removable IDE Hard Disk, or CompactFlash™ Drive	Serial ATA Hard Drive or CompactFlash™ Drive	Bootable CompactFlash™ Drive 4GB and 8GB Options
	Removable Media	DVD R/W	DVD R/W	DVD R/W	USB memory
General	Mounting	Panel or Rack	Panel or Rack	Wall or Shelf	Wall or Shelf
	Operating System	Windows® XP Professional or 2000	Windows® XP Professional or 2000	Windows® XP Professional or 2000	Preloaded with Windows® XP Professional or 2000 Operating System
	Standards & Ratings	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	CE, FCC, UL, cUL
	Weight	27 lbs / 12.4 kg	27 lbs / 12.4 kg	13.0 lbs / 7.2 kg (1546) 18.0 lbs / 8.2 kg (1547)	12.5 lbs / 5.7 kg
	Warranty	2-year standard	2-year standard	2-year standard	2-year standard
Options	24 V DC Power Supply Floppy, Dual Hard Drives, RAID-enabled, Extended Warranty	24 V DC Power Supply, Floppy, Dual Hard Drives, RAID-enabled, Touchscreen Extended Warranty	24 V DC Power Supply CD-R/W w DVD-Read Only, DVD-R/W Drive, and Floppy, Dual Hard Drives, RAID-enabled	9-30 Volt Regulated DC Input (AC Power Supply option available)	
Dimensions	Height	13.97" / 354.8 mm	13.97" / 354.8 mm	9.24" / 234.7 mm	3.75" / 95.25 mm
	Width	19.00" / 482.6 mm	19.00" / 482.6 mm	11.47" / 291.3 mm (1546) 16.16" / 410.46 mm (1547)	8.50" / 215.9 mm
	Depth	7.64" / 194.0 mm	7.64" / 194.0 mm	5.75" / 146.1 mm	9.50" / 241.3 mm
	Mounting Depth ¹	6.60" / 167.6 mm	6.60" / 167.6 mm	See product datasheet for mounting	See product datasheet for mounting

¹ Consult product datasheet and/or manual for cutout and mounting dimensions.



Xycom Heavy-Duty Industrial Flat Panel Monitors



5015KPM(T)



5015T/R2



5015SLR



5017T



5019T

	Brand	Xycom	Xycom	Xycom	Xycom	Xycom
PC Technology	Display Size / Active Area (W x H)	15" / 11.972" x 8.98"	15.0" / 11.97" x 8.98"	15" / 11.97" X 8.98"	17" / 13.30" x 10.64"	19" / 14.82" x 11.85"
	Display Resolution	1024 x 768 XGA	1024 x 768 XGA	1024 x 768 XGA	1280 x 1024 SXGA	1280 x 1024 SXGA
	Front Panel Input Device	Analog Resistive Touchscreen, Reprogrammable 74 Position Keypad and Industrial Mouse	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen
	Color Depth	16.7 million	262,000 colors	16.7 million	16.7 million	16.7 million
	Backlight Life	50,000 hours	50,000 hours	50,000 hours	50,000 hours	50,000 hours
	Input Voltage	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC
	Mounting	Panel or VESA Arm	Panel or VESA Arm	Panel or VESA Arm	Panel or VESA Arm	Panel or VESA Arm
General	Standards & Ratings	NEMA 4/4X/12 (front panel), CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location
	Weight	18.9 lbs / 8.55 kg	15.0 lbs / 7.0 kg	22 lbs / 9.0 kg	18.0 lbs / 8.2 kg	21.0 lbs / 9.6 kg
	Warranty	2-year standard	2-year standard	1-year standard	2-year standard	2-year standard
Options	Options	Stainless Steel Bezel, 24 V DC power supply, Extended Warranty	19" Rack Mount Adapter, Stainless Steel Bezel, 24 V DC Power Supply, Extended Warranty	19" Rack Mount Adapter, Stainless Steel Bezel, 24 V DC Power Supply, Extended Warranty	19" Rack Mount Adapter, Stainless Steel Bezel, 24 V DC Power Supply, Extended Warranty	Stainless Steel Bezel, 24 V DC Power Supply, Rack Mount Bezel, Extended Warranty
Dimensions	Height	13.97" / 354.9 mm	13.78" / 350.0 mm	13.78" / 350 mm	14.70" / 373.4 mm	15.70" / 398.8 mm
	Width	19.00" / 482.6 mm	16.485" / 418.7 mm	16.485" / 418.7 mm	17.36" / 440.9 mm	18.51" / 470.2 mm
	Depth	3.36" / 85.34 mm	3.10" / 78.74 mm	3.455" / 87.8 mm	3.10" / 78.74 mm	3.10" / 78.74 mm
	Mounting Depth ¹	2.55" / 64.77 mm	2.85" / 72.39 mm	3.205" / 81.4 mm	2.85" / 72.39 mm	2.85" / 72.39 mm

¹ Consult product datasheet and/or manual for cutout and mounting dimensions.



Pro-face Heavy-Duty Industrial Flat Panel Monitors

Pro-face

NEW



FP3500

NEW



FP3600

NEW



FP3710

NEW



FP3900

	Brand	Pro-face	Pro-face	Pro-face	Pro-face
PC Technology	Display Size / Active Area (W x H)	10.4" / 8.31" x 6.24"	12.1" / 9.76" x 7.34"	15" / 11.97" x 11.34"	19" / 14.82" x 11.85"
	Display Resolution	640 x 480 VGA	800 x 600 SVGA	1024 x 768 XGA	1280 x 1024 SXGA
	Front Panel Input Device	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen
	Color Depth	262,000	262,000	16.7 million	16.7 million
	Backlight Life	50,000 hours	50,000 hours	50,000 hours	50,000 hours
	Input Voltage	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC
	Mounting	Panel or VESA Arm	Panel or VESA Arm	Panel Mount	Panel Mount
General	Standards & Ratings	UL, CSA, CE	UL, CSA, CE	UL, CSA, CE	UL, CSA, CE, RoHS compliant
	Weight	7.7 lbs / 3.5 kg	7.7 lbs / 3.5 kg	15.4 lbs / 7.0 kg	22.0 lbs / 10.0 kg
	Warranty	2-year standard	2-year standard	2-year standard	2-year standard
Options	Options	Wall Mounting Adapter, RGB Analog and DVI-D Video Cable, USB Touchscreen Cable, Screen Protection, Extended Warranty	Wall Mounting Adapter, RGB Analog and DVI-D Video Cable, USB Touch Screen Cable, Screen Protection, Extended Warranty	RGB Analog and DVI-D Video Cable, USB Touchscreen Cable, Screen Protection sheets, Extended Warranty	RGB Analog and DVI-D Video Cable, USB Touchscreen Cable, Screen Protection sheets, Extended Warranty
Dimensions	Height	9.57" / 243 mm	9.57" / 243 mm	11.57" / 294 mm	15.35" / 390 mm
	Width	12.48" / 317 mm	12.48" / 317 mm	15.55" / 395 mm	18.11" / 460 mm
	Depth	2.28" / 58 mm	2.28" / 58 mm	2.36" / 60 mm	3.06" / 77.7 mm
	Mounting Depth ¹	1.97" / 50 mm	1.97" / 50 mm	2.16" / 55 mm	2.56" / 65 mm

¹ Consult product datasheet and/or manual for cutout and mounting dimensions.



Industrial PC and Monitor Accessories



9000-USB FKA

Sealed panel mount door with USB, floppy (9000-USB F included) and keyboard access (requires Windows 98, 2000 or XP and USB port)



9000-USB F

USB Floppy for use with Xycom products (requires Windows 98, 2000, or XP and USB port)



CF Card

256MB, 512M, and 1GB card CompactFlash™ card. CA3-CFCALL/256-01, CA3-CFCALL/512-01, CA6-CFCALL/1GB-01



DVI-D Cable

Pro-face DVI-D Video Cable for all Pro-face monitors FP-DV01-50 (5M) FP-DV10-100 (10M)



Protective Sheets

Pro-face Screen Protection Sheets for Pro-face brand IPC and Monitors.

Monitors:	IPC:
CA7-DFS19-01 (FP3900)	CA7-DFS8-01 (PS3450)
CA7-DFS15-01 (FP3710)	CA3-DFS12-01 (PS3650)
PSL-DF00 (FP3500/FP3600)	CA3-DFS15-01 (PS3710A)

Installation Fastener

Metal Installation Fastener Standard Attachment for all Pro-face brand models CA3-ATFALL-01

Analog RGB Cable

Pro-face Analog RGB Video Cable for all Pro-face brand monitors FP-CV02-45

Serial Cable

Pro-face Touchscreen Serial Cable for all Pro-face brand monitors FP61V-IS00-O (5M)

CUTOUT ADAPTER PLATES AND MOUNTING FASTENERS FOR IPC AND MONITOR PRODUCTS



9000-CAP-3612KPM/9487 Cutout adapter plate for mounting 4612KPM(T) in an existing portrait (947X & 948X) or 9450 cutout ⁶

9000-CAP-3612KPM/3515 Cutout adapter plate for mounting 4612KPM in an existing 3515, 3535, or 3015 cutout ⁶

9000-CAP-3615T/3515 Cutout adapter plate for mounting 4615T in an existing 3515, 3535, or 3015 cutout ⁶

9000-RF1 19" rack mount adapter plate for the 3612T or 4612T

9000-RFC 19" rack mount adapter for use with the 9000-FFK or 9000-USB FKA

2005-RMA 19" rack mount adapter plate for the 4612KPM(T)

9457-CAP Cutout adapter plate for mounting 5015KPM(T), 4615KPM(T), 4715T or 4715KPM(T) in an existing 9457 or 9407 cutout ⁶

MTG-RM5015/R2 Adapter panel for mounting 5015T/R2 or 5015SLR in 19" rack

MTG-RM5017 Adapter panel for mounting 5017 in 19" rack. Panel measures 15.7" (9U) in height

MTG-PM5015/3015 Adapter plate for panel mounting a 5015T in place of a 3015. Requires a minimum of 15.4" of vertical panel space ⁸

MTG-PM5015-9407 Adapter plate for panel mounting a 5015T in place of a 9407. Requires a minimum of 15.4" of vertical panel space ⁸

PS3650-CAP-3112T Adapter plate for panel mounting a PS3650 in place of a Xycom 3112

FP3900-CAP-5019T Cutout adapter plate for mounting FP3900 in place of 5019T

FP3710-CAP-5015T/R2 Cutout adapter plate for mounting FP3710 in place of 5015T/R2

XYCOM BRAND CABLES FOR FLAT PANEL MONITOR PRODUCTS

VIDEO

3000-CBL-03V (3'/1 m)
3000-CBL-10V (10'/3 m)
3000-CBL-25V (25'/7.5 m)⁴
3000-CBL-50V (50'/15 m)⁴

TOUCHSCREEN¹

CBL-SER03MF (3'/1 m)
CBL-SER10MF (10'/3 m)
CBL-SER25MF (25'/7.5 m)⁴
CBL-SER50MF (50'/15 m)⁴

TOUCHSCREEN²

CBL-SER10FF (10'/3 m)
CBL-SER25FF (25'/7.5 m)
CBL-SER50FF (50'/15 m)

USB TOUCHSCREEN

3000-USB-03AB (3'/1 m)
3000-USB-10AB (10'/3 m)
3000-USB-16AB (16'/5 m)⁵

PS/2 KEYBOARD/MOUSE³

CBL-PS2-10 (10'/3 m)

DIGITAL VIDEO⁷

CBL-DVID10MM (10'/3 m)

¹ For all monitors other than 5015T. ² For use with 5015T monitors only. ³ For KPMT monitors only. ⁴ Consult factory for use with KPMT monitors.

⁵ Not for use with KPMT monitors. ⁶ Can also be utilized as a rack mount adapter. ⁷ Only for Xycom brand monitors with DVI connection.

⁸ Will require use of mounting spacers when used with a 5015T/R2.

Manuals, Datasheets, and Comparison Charts are Available Online

New Products and Innovative features are released frequently. Check our website to get the latest updates on the latest HMI innovations and technology offerings from Pro-face and Xycom brand products. Visit www.profaceamerica.com.

Industrial PC Technology Notes

Compact Flash (CF) User Technology Notes

The following is basic information provided by Pro-face to help you make an informed decision when considering flash-based technology for industrial applications.



3 Basic Modes of Operation used by CF Cards

- I/O Mode
- Memory Mode
- True IDE Mode (recommended for bootable OS from CF)

Off-the-shelf CF cards offer removable configuration but fixed disk configuration is not usually available at commercial outlets.

What True IDE Mode Offers:

- **Fixed disk configuration:** increases performance by creating pagefile used by the operating system
- **Increased Performance:** UDMA and DMA support modes for maximum data transfer speeds

Off-the-shelf Compact Flash Cards Shortcomings:

- Uses **Multi-cell flash type technology** which is a lower cost, less reliable data storage method. This is considered not acceptable for critical data storage or for installing an operating system.
- **No Revision Control:** Controllers on CF card change frequently without notification resulting in no guarantee the next CF card will work the same as the previous card.
- **Limited Compatibility:** Some CF cards are not compatible with CF ports that do not support DMA, resulting in system conflicts, slow access and degraded speed performance.

Top Reasons to Use Pro-face CF Cards:

- Uses **single cell technology** which is more robust than multi-cell technology and increases life of flash card.
- **Wear Leveling Technology:** CF cards have a maximum read/write limitation. We use wear leveling technology to even out the usage of each memory cell to extend CF card life critical for PCs using an operating system installed on a CF card.
- **Performance:** Standardized Read/Write access allows the operating system to perform without large variations in speed performance
- **Revision Control:** Guarantees that our CF card will work every time
- **Right Operations Mode:** We match the right CF card mode of operation with the intended application

Consider the impact to your operations when considering using off-the-shelf CF cards.

UL HAZARDOUS LOCATION DEFINITIONS



Most Pro-face computers meet Underwriters Laboratories explosive atmosphere protection tests for Class I and Class II, Division 2 locations.

Class I locations are those that may have airborne flammable gases or vapors in quantities sufficient to produce explosive or ignitable mixtures.

Class II locations are those that are, or may become, hazardous because of the presence of combustible dust.

Division 2 locations are those that are not normally hazardous, but may become hazardous because of a failure or breakdown.



All standard panel-mounted Pro-face industrial computers carry a NEMA 4/4X/12 rating, as well as an IEC 529 IP65 rating that is applied outside of North America, and are CE approved.

NEMA 12 means that an enclosure is dust tight, drip proof, and approved for indoor industrial use.

NEMA 4 means that an enclosure is waterproof and approved for outdoor industrial use.

The "X" identifier indicates that the enclosure can be used in areas that contain corrosive materials.

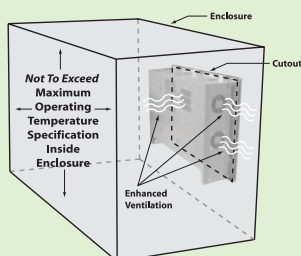


Most Pro-face industrial computers and HMI panels meet European Union **RoHS** directives.



Get more info on these and more products!
Visit www.profaceamerica.com

TEMPERATURE CONSIDERATIONS



When installing an industrial computer or flat panel monitor into an enclosure, extra care should be exercised to ensure that the ambient air around the unit (inside your enclosure, not outside the enclosure) does not exceed the maximum operating temperature specification for that unit. Exceeding this temperature may cause premature degeneration of the unit.

Consult your enclosure manufacturer for proper sizing and/or cooling options. The Pro-face datasheet for the appropriate unit contains information that your enclosure manufacturer will require. Datasheets can be obtained in the Resource Library at www.profaceamerica.com.

Industrial PC Application Help

Help us identify the right industrial PC for your application

A Quick Industrial PC Questionnaire Guide:

1. What problem are you trying to solve?
 Reduce Field Failures/Downtime Reduce System Costs Backup Critical Systems
2. Do you have a current PC solution that you are not happy with?
 NO YES (If yes) Brand/Model _____
(i.e., brand, model number)
3. What type of PC are you looking for (check one)?
 Node Box Panel Mount
4. What size PC display or touch monitor do you need?
 8.4" 10" 12" 15" 17" 19"
5. What type of temperatures will this unit be exposed to?
 Moderate Controlled Environment
 Wide Temperature Fluctuations
 High Temperature (greater than 50°C)
6. Will this PC be exposed to shock and vibration from factory equipment such as a stamping press?
 No Yes Don't Know
7. What type of Certifications do you require? (Check all that apply)
 UL/CSA general location UL Class Div 2 CE RoHS ATEX Other: _____
8. What type of PC technology are you considering?
 Standard Hard Drive Technology
 Solid State or Compact Flash Technology
 Redundant Data Back-up RAID Technology
9. What Operating System do you need?
 XP Professional Windows 2K No Operating System Other: _____
10. Are you looking for a customized solution? NO YES
If yes, explain: _____
11. What do you have budgeted for your application? (total units/total dollars) _____
12. Which type of PC are you considering?
 Light Duty Heavy Duty Don't Know

Contact Information: Fax this form to 734.429.1010 to have our representatives assist you with selecting the right PC for your application.

Name: _____ Company: _____

Email: _____ Phone: _____

Are You Interested In Product Updates? _____ Best Time to Contact: _____

Products You're Interested In:	Light-Duty Industrial PC	Heavy-Duty Industrial PC	Flat Panel Monitors
	<input type="checkbox"/> PS3000	<input type="checkbox"/> 4600/4700	<input type="checkbox"/> FP3000 Series
	<input type="checkbox"/> 4117T	<input type="checkbox"/> 1546/1547	<input type="checkbox"/> Xycom 5000 Series
	<input type="checkbox"/> 1510 Node	<input type="checkbox"/> 1341 Node	<input type="checkbox"/> Sunlight Readable
	<input type="checkbox"/> PS3710A	<input type="checkbox"/> 4715	<input type="checkbox"/> FP3900

Worldwide Service and Support

Service and Support Where You Need It

We have offices around the corner and around the world. We are there for you with our combination of channel partners, area sales managers local field application engineers, and a team of trained application engineers to support you before and after the sale. We're also there for you globally!



Restriction of Hazardous Substances (RoHS) is a directive of the European Union (EU).

ISO 9001:2000
Quality System Certified

ISO 14000
Quality System Certified

Warranty Information

All Pro-face and Xycom brand products are warranted by Pro-face:

- To be free from defects in material and workmanship under normal use and service for the period stated for that particular product
- Many of Pro-face's Heavy-Duty Industrial PCs and Flat Panel Monitors come standard with a 2-year warranty
- Light-Duty PC products carry a 1-year standard warranty
- Warranties begin on the date shipped
- Extended warranties are available at time of purchase.

Want to Learn More About Pro-face?

Check out Pro-face's extensive line of advanced dedicated operator interfaces AGP3000 series.

- **3.8" to 15" Touchscreens**
- **100% Solid State**
- **Extensive Connectivity**

Request an AGP3000 Brochure Today!



Right Size, Right Technology Solutions

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