2017/18

Systems Catalog

VIPA
CONTROLS AMERICA

VIPA CONTROLS

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CPU Modules with instruction set S7-300/S7-400 from SIEMENS

Value Statement

At VIPA ControlsAmerica we deliver the best total automation solution. We solve our customers' problems by providing exceptional levels of personalized service and support. Control systems from VIPA of Germany enable our customers to build better machines, cost-effectively, to increase efficiency and output. - Innovative Automation Technology -

VIPA
CONTROLS AMERICA

VIPA Controls Story

VIPA GmbH of Germany was a start-up before the word was ever invented. Founded in 1985 by Wolfgang Seel, driven by his enthusiasm for automation and the necessary vision for the possibilities in this industry. And all this at a time when the Commodore 64 was considered to be the top performer. It's true that the first company address wasn't a garage, but nevertheless only a three-bedroom apartment. For the business plan, however, that's all that was needed: Thinking laterally, offering alternatives but remaining compatible.

The first products were supplements and optimizations for existing Siemens systems. Then in the nineties, the first PLC systems were added. After that one innovation followed the next. Today, with its range of products, among others offering one of the fastest Hard-PLCs worldwide, VIPA is now a global player.

In 2012, YASKAWA Europe acknowledged VIPAs position and acquired a majority of the shares, offering great growth opportunities for VIPAs product portfolio. Today, VIPA offers the best control solution for a wide range of automation requirements, with high-processing speeds, multiple connectivity capabilities and scalability for simple to high-performance machines. VIPA has been recognized in many industries, such as packaging, assembly and material handling, food, digital printing, renewable energies, wood, glass and stone processing, pumps, building automation, and textiles, just to name a few. Welcome to the World of VIPA.

300S

SLIO

MICRO

Allen-Bradley	Micro800	MicroLogix		CompactLogix		Compact Logix	
SIEMENS	Logo	S7-200	S7-1200	ET200	S7-300	S7-400	S7-1500

We offer free cross-refrencing services with any automation vendor in the market.

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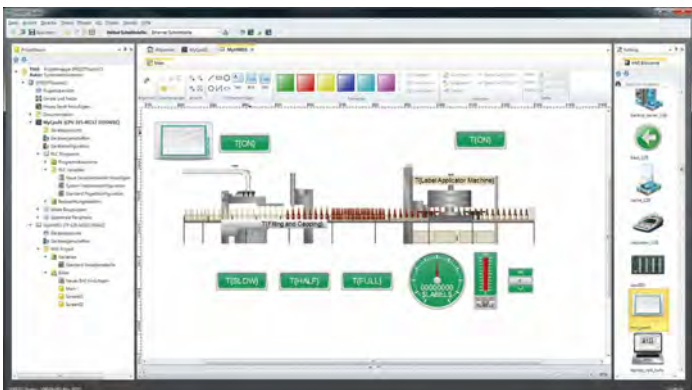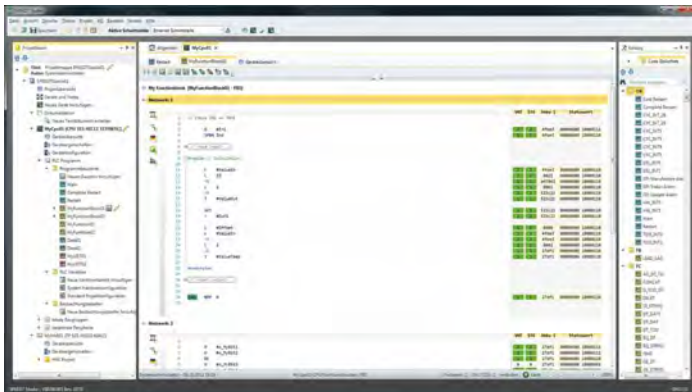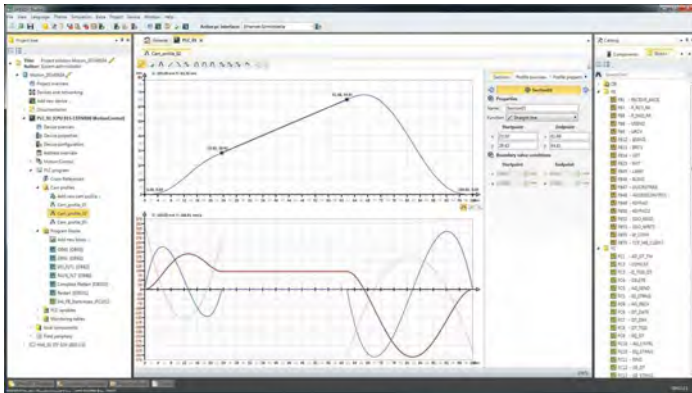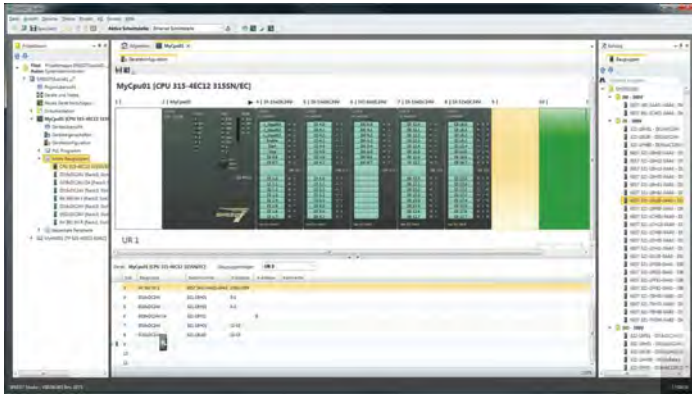
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| Software

SPEED7 STUDIO

Intelligent + intuitive + open = instant entry

SPEED 7 Studio – the new VIPA engineering software, with which any SPEED7 controller can be programmed more economically and efficiently.

The new intelligence of the hardware configuration, the intuitive user interface and the system openness make SPEED7 Studio the powerful and easy-to-use tool. Optimize automation tasks, reduce development costs to a minimum, and save time- and cost intensive software training. The user can again focus on his actual engineer-ing tasks. SPEED7 Studio is systematically based on user friendliness. Every-thing has been freshly designed, from the hardware configuration, pogramming and networking to the parametrization of frequency inverters and drives, and even visualization. All functions, properties and libraries are automatically prepared and displayed in the SPEED7 Studio editor view.

Unique SPEED7 tools make the software attractive and efficient. High speed applications are even more economic with the SPEED bus functions. EtherCAT is fully integrated. The EtherCAT configurator quickly and safely configures applications, automatically reads them and labels them with standard symbols. Integrated SLIO functiona-lities such as automatic calculation of power consumption and integrated process image calculation, make SPEED7 Studio a highly efficient tool that holistically integrates the SPEED7 product spectrum.

Highlights

- Photorealistic Hardware-/Network-Configuration
- Intuitive User Interface
- Free Window Docking
- Tool-Tips
- Known S7-Programming Environment
- VIPA-specific Blocks
- Full integrated Visualization
- WEB-Visualization

additionally SPEED 7 STUDIO BASIC

- SCADA-System MOVICON

additionally SPEED 7 STUDIO PRO

- Motion-Control using PLCopen Standard
- Intuitive Axes Configuration
- CAM Editor

SPEED7 SOFTWARE	
Order No.:	**Description**
SW010L1MA	1x Software licence SPEED7 Studio LITE for projects up to 128kB, (up to 3 PCs)
SW010B1MA	1x Software licence SPEED7 Studio BASIC full version, unlimited memory, (up to 3 PCs)
SW010P1MA	1x Software licence SPEED7 Studio PRO full version, unlimited memory, Motion-Control (up to 3 PCs)

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| VIPA MICRO

MICRO PLC
High Performance in Micro Dimension

With the new „MICRO", VIPA Controls will be presenting a very compact and extremely fast MICRO control system at the SPS IPC Drives 2016. The design has a definite wow-factor and it opens up completely new paths in regards to operating and status display. Thus the MICRO PLC is the starting signal for the new VIPA controller generation. The sales launch will be in January 2017.

Designed as a stand-alone PLC it stands out because of its modern design, its compact size, its high performance, and its high channel density. The design of the MICRO PLC contains a new display and operating concept that enables the user to see the essential control information of the system at a glance. For this, display and operating elements deliberately concentrate on the essentials that are required in practice. The new „MICRO" – as the name suggests – is extremely compact. With a width of less than 72 millimeters the VIPA MICRO PLC is up to 50% smaller than typical MICRO controllers. With 30 integrated digital and analog I/O channels on board it offers multifarious usage options as a stand-alone CPU too, and can be expanded with up to eight modules. For the product launch there will be digital modules (16DI, 16DO, 16DIO and 8 DO relay) available which will be expanded continuously by all well-established types of modules.

Firm hold by spring terminal technology
The connection plugs of the "MICRO" are individually detachable and therefore suitable for the pre-wiring in the series launch. Equipped with the convenient push-in technology they can be mounted and replaced quickly and easily, and without tools. In addition the plugs have spring terminals which not only allow easy wiring but also withstand every vibration. The allocation of the I/O display LEDs directly on the appropriate plug connection allows the user an easy and clear allocation of the channel status even at such a high channel density. Additionally VIPA Controls offers the user an easy and up-to-date

diagnosis access via an optional Bluetooth adapter. This enables fast and easy access to the visualization and operation via commercial smart phones and tablets as well as detailed diagnosis. This is even easier with the new free VIPA app.

Interfaces, communication and memory
There is an active 2-port-switch for online access, programming, and communication. This switch is prepared for future applications of PROFINET - PROFINET Ready. So the functional range of the "MICRO" can simply be extended by further planned features such as PROFINET support or webserver by means of a firmware update.
The MICRO PLC M13C The MICRO PLC communicates via Ethernet TCP/IP (open communication, ModbusTCP etc.) as standard. The user has also the option of using the PROFIBUS slave function, PtP and MPI with an expansion module. Further functionalities of the SLIO system such as larger memory or field bus connections can be enabled if necessary using the multiple award-wining VIPA Set Card (VSC), which is unique in the world of automation.

	CPU
Order No.:	Technical data
M13-CCF0000	CPU M13C powered by SPEED7®, work memory 64 - 128 kB onboard: 16 DE / 12 DA / 2 AE / 4 counter / 2 PWM interface 2x RJ45: Ethernet PG/OP-Comm., switch optional 2x RS485: MPI, PROFIBUS Slave, PtP: ASCII, STX/ETX, 3964(R), USS Master, Modbus Master/Slave SD-Card-Slot expandable up to max. 8 modules, programmable with SPEED7® Studio, WinPLC7, SIMATIC manager and SIEMENS TIA Portal

	DIGITAL IN- & OUTPUT
Order No.:	Technical data
M21-1BH00	SM M21, 16 DI 24V DC
M22-1BH00	SM M22, 16 DO DC 24V, 0,5 A
M22-1HF10	SM M22, 8 DO 230V-AC / 2,5 A relay
M23-1BH00	SM M23, 8 DI 24DC, 8 DO 24V / 0,5 A

	EXTENSIONS
Order No.:	Technical data
M09-0CB00	IM M09, interface (2x RS485): MPI, PROFIBUS Slave, PtP: ASCII, STX/ETX, 3964(R), USS Master, Modbus Master/Slave

Highlights
- Stand-alone PLC
- Up to date, pleasing, and functional design
- Extremly compact construction size
- Very high performance with SPEED7® technology
- Fast backplane bus connection of 48 MBit/s
- 30 integrated I/Os on board
- CPU expandable up to max. 8 modules
- Detachable connection plug with spring terminal and push-in technology
- Optional Bluetooth communication for diagnosis & visualization
- 2-port Ethernet switch
- Optional 2x RS485 module for MPI and PtP and optional PROFIBUS slave
- 64 up to 128 kByte remanent work memory and 128 kByte load memory
- Full STEP7® compatible – supports IL, LAD, FBD, SCL and GRAPH7
- Programmable with SPEED7® Studio, SIEMENS SIMATIC manager and SIEMENS TIA Portal
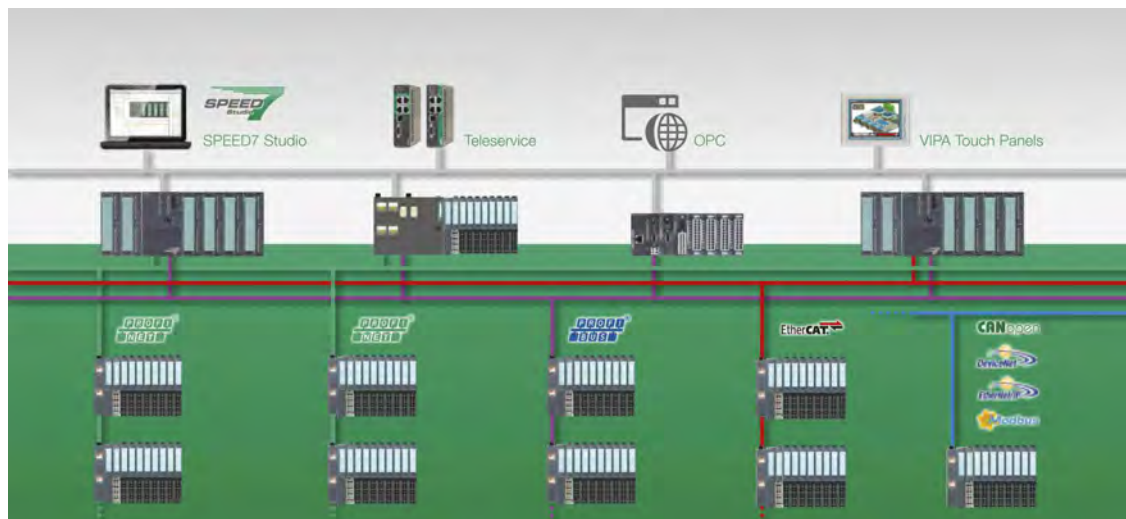- Very good price / performance ratio

VIPA CONTROLS AMERICA

VIPA SLIO PLC

SPEED7-TECHNOLOGY
CPU-Modules

SPEED7 INCREASES THE PRODUCTIVITY OF YOUR PLANTS AND MACHINERY

- **Performance:** Very fast processing and cycle times increase the output of machinery and manufacturing plants
- **Design:** Known and well-established design, similar to the S7-300 by Siemens
- **Standard-Bus-System:** Due to standard bus system, it is possible to mix VIPA and Siemens components
- **SPEED7-Bus-System:** The High SPEED-Bus is designed for extremely fast applications. You can use special high-performance VIPA modules such as AIO, DIO, Fieldbus-, Communication-modules Onboard Ethernet, MPI and PROFIBUS-DP Master/Slave, PtP serial RS485 interface and integrated CP 343/543 Ethernet
- **Interfaces:**

- **Programming language:** Programmable with STEP®7 by Siemens, TIA portal and SPEED7 Studio
- **Standard MMC Card:** The MMC card is used for backup, storage of program and data and also for running the CPU (the MMC is not necessary to run the CPU)
- **Memory Management:** Via MCC card it is possible to increase the work memory of the CPU up to 8MByte without changing the hardware
- **Stock cost:** Only a few of CPU types
- **SPEED7 is available world-wide. More than 60 VIPA branch offices offer service and support**

TECHNICAL DATA	SLIO 013C	SLIO 014	SLIO 015	SLIO 017	SLIO IMC7
Work memory (50% program /50% data)	64-128kB	128-256kB	256-512kB	512kB - 2MB	256-512kB
Processingtime (Bit/Word/Fix-/Floatingpoint in nanoseconds)	20/20	20/120	10/60	10/60	10/60
Number range: FB, FC, DB			8191 8191		
Bit memory / Counter / Timer		8 8192 / 512 / 512		16kB / 2048 / 2048	8192 / 512 / 512
Local data loc. (per Prio class configurable) I/		1024Byte		4096Byte	1024Byte
O Adress area		1024 / 1024Byte		4096 /4096Byte	1024 / 1024Byte
Process image I/O		1024 / 1024Byte		4096 /4096Byte	1024 / 1024Byte
MPI max. Speed			12 MBd		
Fieldbus: PROFIBUS-DP-Master integrated	(under Developement)	optional	optional	optional	optional
Fieldbus: PROFIBUS-DP-Slave integrated	optional	optional	optional	optional	optional
Fieldbus: PROFINET-Master integrated Feldbus:	--	--	✔	✔	--
ETHERCAT-Master integrated	--	--	--	--	✔
PtP	✔	✔	✔	✔	✔
PtP on PROFIBUS jack/MPI jack toggleable	✔	✔	✔	✔	✔
Ethernet PG/OP-Port integrated/Connections	✔ / 4	✔ / 4	✔ / 4	✔ / 4	✔ / 4
Ethernet CP 343 integrated/Connections ISOonTCP/ISO(H1)/S7/TCP/UDP Connections	-- /-- --	-- /-- --	✔ / 8 8	✔ / 24 24 (16)	-- /-- --
MOTION-axis integrated	--	--	--	--	optional (4/8/16/20)
VIPA SPEED-BUS	--	--	--	--	--
AE / AA / Pt100	2 / -- / --	-- / -- / --	-- / -- / --	-- / -- / --	-- / -- / --
DE / DA / DEA's	16 / 12 / --	-- / -- / --	-- / -- / --	-- / -- / --	-- / -- / --
Counter / PWM or Stepper (switchable)	4 (100kHz) / 2 (20kHz)	-- / --	-- / --	-- / --	-- / --
Dimensions in mm: (W x H x D)	116,5 x 109 x 76,5	131,5 x 109 x 76,5	131,5 x 109 x 76,5	131,5 x 109 x 76,5	131,5 x 109 x 76,5

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SLIO
CPU-Modules

YASKAWA and VIPA have laid the foundation for a new kind of automation technology.

The experiences of VIPA with PLC control technology have been combined with those of YASKAWA in the field of motion contol. The result is the SLIO CPU iMC7, a PLC with integrated motion control functions.

EtherCAT is available for simple communication with the YASKAWA inverters and servo drives. The combination of the SPEED7 Studio engineering platform, the new Sigma-7 series and the iMC7 makes it possible to realize motion control tasks easily in a VIPA SPEED7 controller.

SPEED7 Studio provides a catalog of YASKAWA drives. This makes it possible to add these components to the fieldbus using a drag-and-drop function. Project planning also becomes much easier. With the motion control setup it is possible to define axes in the motion contol instructions. These axes are assigned to the servo drives and encoders, and the axis parameters are set. The CAM profile editor allows complex movements to be divided into simple, sequential parts. These parts can be smoothly merged by entering the transitional conditions.
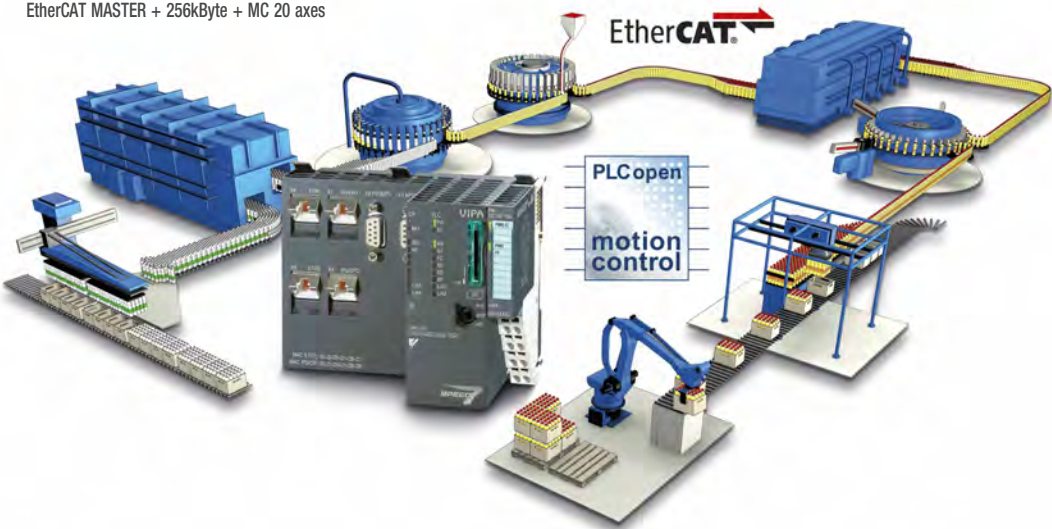
VIPA 015-CEFNR00

Motion control PLC:
SLIO CPU iMC7

- A CPU for standard and motion control applications
- Fully integrated EtherCAT master
- Proven SPEED7 technology for maximum takt rates
- Isochronous operation and multi-axis applications via EtherCAT
- Programmable with SPEED7 Studio by VIPA
- Very flexible, modular system
- Single-source solution for control and drive components
- Compact design (W) 131,5 × (H) 109 x (D) 83 mm

SPEED7 SLIO-CPUs	
Order No.:	**Technical data**
015-CEFNR00 EtherCAT PROFIBUS	CPU 015-SPEED7 technology, DC 24V, incl. 256kByte (up to 512kByte), NVS-RAM, MPI-interface,SD-Slot, clock, Ethernet interface for PG/OP communication, RS485 interface with library for ASCII, STX/ETX, USS, 3964R, ModbusRTU Master/Slave or MPI (switchable), RFC1006, TCP/IP and S7 communication for 8 connections, optional EtherCAT for 4/8/20 Motionaxes and PROFIBUS-DP-Master/Slave, 64 SLIO-units per line. (W x H x D) 131.5 x 109 x 83mm HW identification: in Speed7Studio included

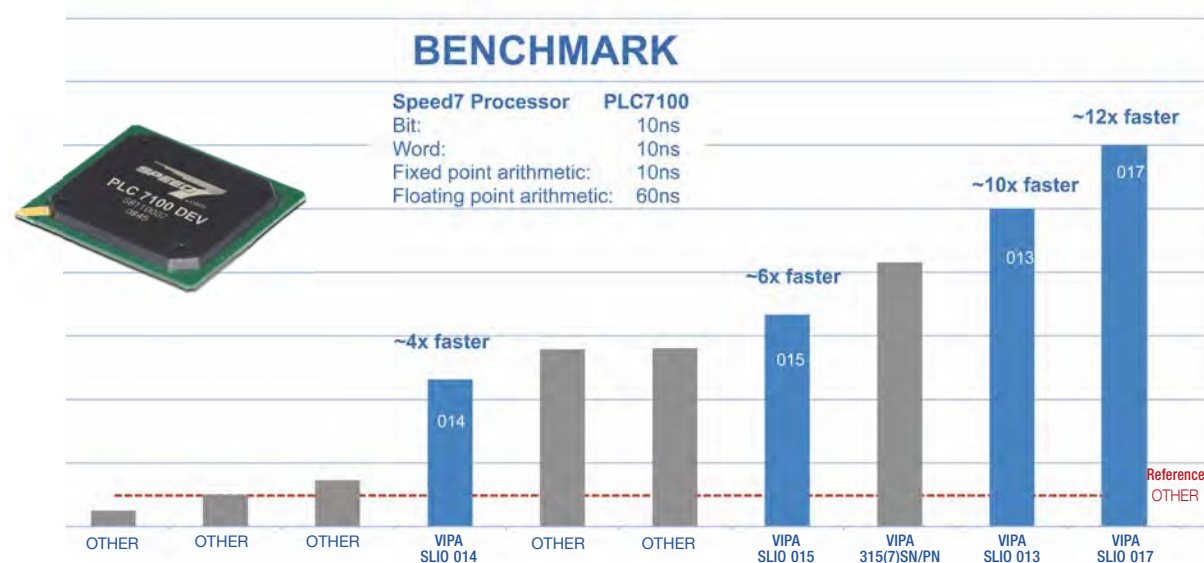| SPEED7 SLIO-CPUs	
Order No.:	**MEMORY & FUNCTION EXTENSIONS**
955-0000000	VIPA SD-Card standard (VSD), empty
FSC-EXTENSION CODE	
FSC-C0ME040	EtherCAT MASTER + 256kByte + MC 4 axes
FSC-C0NE040	EtherCAT MASTER + 256kByte + MC 8 axes
FSC-C0PE040	EtherCAT MASTER + 256kByte + MC 20 axes

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VIPA CONTROLS AMERICA

SLIO
CPU-Modules

SPEED7 BY VIPA – VERY FAST STEP®7-CPUs

BENCHMARK

Speed7 Processor   PLC7100
Bit: 10ns
Word: 10ns
Fixed point arithmetic: 10ns
Floating point arithmetic: 60ns

~12x faster — 017
~10x faster — 013
~6x faster — 015
~4x faster — 014

Reference: OTHER

OTHER | OTHER | OTHER | VIPA SLIO 014 | OTHER | OTHER | VIPA SLIO 015 | VIPA 315(7)SN/PN | VIPA SLIO 013 | VIPA SLIO 017

VIPA 013-CCF0R00

SPEED7 SLIO-CPUs	
Order No.:	**Technical data**
013-CCF0R00	CPU 014-SPEED7 technology, DC 24V, incl. 64kByte (up to 128kByte), NVS-RAM, MPI-interface, SD slot, clock, 16 DI, 12 DO, 24 VDC/0,5A, 2 AI, 4x counter (100kHz), 2x PWM (20 kHz), Ethernet interface for PG/OP communication, RS485 interface with library for ASCII, STX/ETX, USS, 3964R, ModbusRTU Master/Slave or MPI (switchable), optional PROFIBUS-DP-Master/Slave, 64 SLIO-units per line. (W x H x D) 116.5 x 109 x 83mm HW identification: 6ES7314C-2 PN/DP + 6GK343-1EX30-0XE00

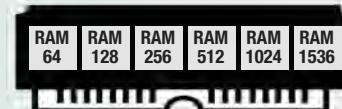**1 CPU** 013C 014 015 017 iMC7

2 Memory extension RAM 64 | RAM 128 | RAM 256 | RAM 512 | RAM 1024 | RAM 1536

3 Fieldbus PROFIBUS®

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SLIO
CPU-Modules

SPEED7 SLIO-CPUs	
Order No.:	**Technical data**
014-CEF0R01	CPU 014-SPEED7 technology, DC 24V, incl. 128kByte bis 256kByte, NVS-RAM, MPI-interface, SD slot, clock, Ethernet interface for PG/OP communication, RS485 interface with library for ASCII, STX/ETX, USS, 3964R, ModbusRTU Master/Slave or MPI (switchable), optional PROFIBUS-DP-Master/Slave, 64 SLIO-units per line. (W x H x D) 131.5 x 109 x 83mm HW identification: 6ES7315-2EH14-0AB0 + 6GK343-1EX30-0XE00
015-CEFPR01	CPU 015-SPEED7 technology, DC 24V, incl. 256kByte (up to 512kByte), NVS-RAM, MPI-interface, SD-Slot, clock, Ethernet interface for PG/OP communication, RS485 interface with library for ASCII, STX/ETX, USS, 3964R, ModbusRTU Master/Slave or MPI (switchable), RFC1006, TCP/IP and S7 communication for 8 connections, PROFINET- & optional PROFIBUS-DP-Master/Slave, 64 SLIO-units per line. (W x H x D) 131.5 x 109 x 83mm HW identification: 6ES7315-2EH14-0AB0 + 6GK343-1EX30-0XE00
017-CEFPR00	CPU 015-SPEED7 technology, DC 24V, incl. 512kByte (up to 2MByte), NVS-RAM, MPI-interface, SD-Slot, clock, Ethernet interface for PG/OP communication, RS485 interface with library for ASCII, STX/ETX, USS, 3964R, ModbusRTU Master/Slave or MPI (switchable), RFC1006, TCP/IP and S7 communication for 8 connections, PROFINET- & optional PROFIBUS-DP-Master/Slave, 64 SLIO-units per line. (W x H x D) 131.5 x 109 x 83mm HW identification: 6ES7317-2EK14-0AB0 + 6GK343-1EX30-0XE00

SPEED7 SLIO-CPUs	
Order No.:	**MEMORY & FUNCTION EXTENSIONS**
955-0000000	VIPA SD-Card standard (VSD), empty
FSC-EXTENSION CODE	
FSC-C000M00	PROFIBUS MASTER
FSC-C000S00	PROFIBUS SLAVE
FSC-C000020	64kByte
FSC-C000M20	PROFIBUS MASTER + 64kByte
FSC-C000S20	PROFIBUS SLAVE + 64kByte
FSC-C000030	128kByte
FSC-C000M30	PROFIBUS MASTER + 128kByte
FSC-C000S30	PROFIBUS SLAVE + 128kByte
FSC-C000040	256kByte
FSC-C000M40	PROFIBUS MASTER + 256kByte
FSC-C000S40	PROFIBUS SLAVE + 256kByte
FSC-C0ME040	EtherCAT MASTER + 256kByte + MC 4 axes
FSC-C0NE040	EtherCAT MASTER + 256kByte + MC 8 axes
FSC-C0PE040	EtherCAT MASTER + 256kByte + MC 20 axes
FSC-C000050	512kByte
FSC-C000M50	PROFIBUS MASTER + 512kByte
FSC-C000S50	PROFIBUS SLAVE + 512kByte
FSC-C000060	1024kByte
FSC-C000M60	PROFIBUS MASTER + 1024kByte
FSC-C000S60	PROFIBUS SLAVE + 1024kByte
FSC-C000070	1536kByte
FSC-C000M70	PROFIBUS MASTER + 1536kByte
FSC-C000S70	PROFIBUS SLAVE + 1536kByte

VIPA 014-CEF0R01

VIPA 015-CEFPR01

VIPA 017-CEFPR00

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VIPA SLIO I/O &

Remote I/O

SLIO – The smart I/O system
Bus Terminals

Demand for a more compact and flexible automation solutions with a reasonable price-performance ratio has been constantly increasing. With the development of the completely new I/O system SLIO®, VIPA is setting a new standard in the automation sector.
The VIPA I/O system SLIO combines high functionality with an intelligent mechanical concept and an extremely compact design.
SLIO® is a synonym for slice-I/O. With its very compact design, the system can be set-up "step by step" to exactly meet the requirements of the application.
The Interface Modules (IM) for PROFIBUS-DP, CANopen, PROFINET, EtherCAT and Modbus can support up to 64 Electronic Modules (EM).
The Power Modules (PM), which are contrasting in color to Signal Modules (SM) and Function Modules (FM), supply voltage to the Electronic Modules. Decoupled potential groups can be defined if required. The Electronic Modules are connected to the Terminal

Module™ using a secure plug-in mechanism. The Terminal Module is comprised of a clamp, connection of Electronic Modules and mechanical bus connector. Therefore, if maintenance or repair are required, only the Electronic Module will have to be exchanged by simply pulling it out of the Terminal Module. Wiring and mounting on the 35mm DIN rail will remain unchanged. The staircase-shaped cage, which clamps on the Terminal Module offers fast, clear, and secure wiring. With the integrated status-LEDs and the labeling strip on the front, an exact state monitoring of channels on the Electronic Module is possible.
The new backplane bus system with a transmission rate of 48Mbit/s offers very short response times with a signal processing of less than 20µs.
SLIO® is one of the most powerful and cost-effective decentralized systems available in the market.
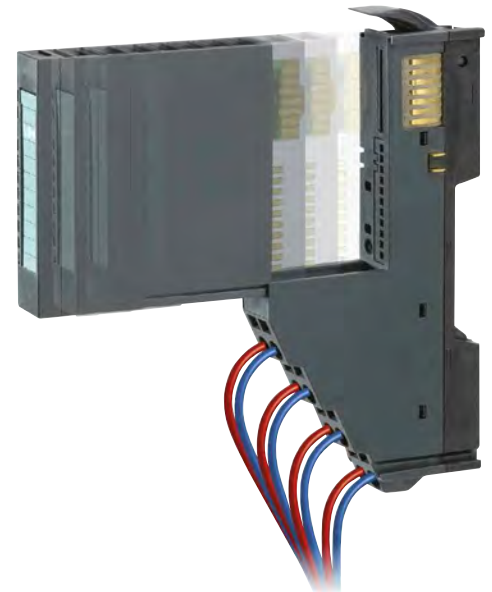
INTERFACE-MODULE (IM)
The space-saving Interface-Module represents the interface between process level and bus system. All control signals are transmitted to the Electronic Module through the internal backplane bus.

- Supports various fieldbus systems
- Exchangeable Power Module, easy-to-maintain
- Functional DIP-switch for address setting for PROFIBUS-DP and CANopen with transparent cover
- IP addressing in clear text on the front
- Potential decoupling between fieldbus and input/output level
- Up to 64 Signal and Function Modules per Interface Module

SIGNAL-MODULE (SM)
Electronic Module for connection of sensors and actuators, registration of digital and analog signals in and out of the process.
- Direct allocation and monitoring of channel states via status LEDs
- Secure and time-saving installation due to terminal assignment on the module
- Item designation will remain unchanged in case of module exchange
- Individual labelins of channels with blank strips

FUNCTION-MODULES (FM)
Electronic Module for realization of automation requirements, e.g. fast counting. For measuring and positioning the following function modules will complement the SLIO® system in the future:
- SSI-Module • Counter-Module • Others in preparation

POWER-MODULE (PM)
Power Module for refreshing of backplane bus power. The double-component-design ensures easy maintenance due to the separation of electronics from the Terminal Module.
- Decoupling of potential groups
- Voltage supply on sensor/actuator level
- Mounting security due to reverse-connect and overvoltage protection

EASY INSTALLATION AND MAINTENANCE
- Two-component modules with Terminal Module and Electronic Module for easy maintenance
- Easy mounting due to plug-in mechanism
- Click-connection for fast mounting of shield connection
- Protection against wrong combination of Terminal- and Electronic-Modules per encoding

CLEVER AND USER-FRIENDLY LABELLING
- Status-LEDs with direct allocation on the labelins strip
- Terminal assignment and connection diagrams on each module
- Item designation will remain unchanged in case of module exchange
- Blank strips for individual labeling of modules

## CLEAR STATUS MONITORING AND DIAGNOSIS
- Indication of diagnosis and channel states via LEDs
- Clear allocation and indication of channel states
- Secure and time-saving installation and maintenance through terminal assignment printed on the module

PERFORMANCE-ORIENTED BACKPLANE BUS
- One Terminal Module for all Signal and Function Modules
- Transmission rate 48Mbit/s
- Fast response time of 20µs upwards
- Detailed diagnosis of each Electronic Module in the system

SPACE AND TIME-SAVING CONNECTION TECHNOLOGY
- Space-saving staircase-shaped wiring with cage clamps
- Quick pre-wiring due to separate installation level
- Easy module exchange due to standing wiring
- High modularity due to 2, 4 and 8 channel modules
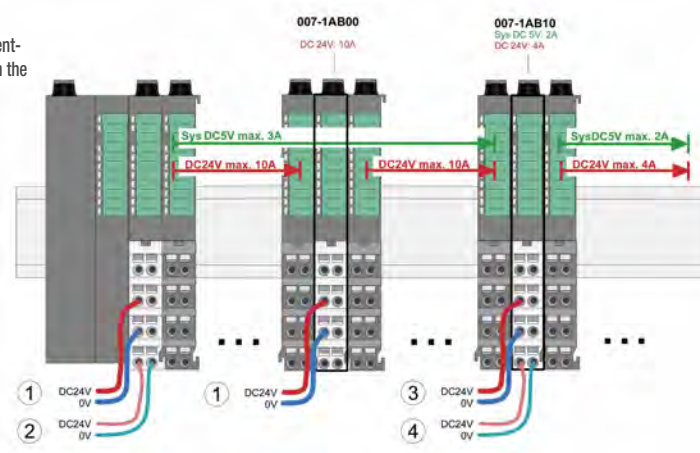
① DC 24V for power section supply I/O area (max. 10A via 0AA00/1AB00)

② DC 24V for electronic power supply bus coupler

③ DC 24V for power section supply I/O area (max. 4A via 1AB10)

④ DC 24V for electronic power supply bus coupler

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SLIO – The smart I/O system

Bus Terminals

INTERFACE-MODULES INCL. 007-0AA00 POWER-MODULE	
Order No.:	Name / Technical data
053-1CA00	IM 053CAN / CANopen-Slave, max. PB (parameterbytes): 128
053-1DN00	IM 053DN / DeviceNet-Slave, max. PB (parameterbytes): 256
053-1DP00	IM 053DP / PROFIBUS-DP-Slave, max. PB (parameterbytes): 244
053-1PN00	IM 053PN / PROFINET-IO slave transfer rate 100MBd, PB: 512
053-1EC00	IM 053EC / EtherCAT-slave transfer rate 100MBd, PB: 4kB
053-1MT00	IM 053NET / Modbus-/TCP/IP slave, adjustable I/O cycle 0.5..4msec
053-1IP00	IM 053MT / Ethernet/IP-Slave, PB (Parameterbytes): 512
060-1AA00	IM 060 / Line Extension, Master
061-1BA00	IM 061 / Line Extension, Slave

FUNCTIONS-MODULES INCL. 001-0AA00 TERMINAL MODULE	
Order No.:	Name / Technical data
050-1BA00	FM 050 - Counter module / Counter 1x32Bit (AB), DI 24VDC, up to 100kHz, DO 1x 24VDC/0,5A, Gate-, Latch-, Reset-Connector, Alarm, Diagnose
050-1BA10	FM 050 - Counter module/Counter 1x32Bit (AB), DI 5VDC, up to 500kHz Differential signal, Reset-Connector, Alarm, Diagnose
050-1BB00	FM 050 - Counter module/Counter 2x32Bit (AB), DI 24VDC, up to 100kHz Alarm, Diagnose
050-1BB30	FM 050 - ECO Counter module/Counter 2x32Bit (AB), DI 24VDC, up to 100kHz
050-1BB40	FM 050 - Counter module/Frequenz 2x24Bit (AB), DI 24VDC, up to 600kHz
050-1BS00	FM 050S - SSI-Modul / 1xSSI, RS422, 24/32 Bit, 100/300/600kBit/s

MOTION-MODULES INCL. 001-0AA00 TERMINAL MODULE	
Order No.:	Name / Technical data
054-1BA00	FM 054 - stepper module / 1-channel with feedback, 2 outputs 24VDC/1,5A, 2 inputs 24 VDC, current control frequency 32 kHz, step pattern 64-times microstepping
054-1CB00	FM 054 - DC-motor module / 2-channel with feedback, 2 outputs 24VDC for 2x 1,5A DC motors, 2 inputs 24 VDC, PWM clock frequency 32 kHz
054-1DA00	FM 054 - Pulse Train output module / 1-channel RS422 with feedback, 2 outputs A/B phase 24 VDC, 2 inputs VDC, 0 to 1.000 kHz

COMMUNICATION-MODULES INCL. 001-0AA00 TERMINAL MODULE	
Order No.:	Name / Technical data
040-1BA00	CP 040 - Communication processor, RS232 interface Communication: ASCII, 3946R, ModbusRTU/ASCII (Master/Slave, short/long) lenth of telegram: max. 250Byte, up to 250 telegrams receive-/send buffer: 1024Byte
040-1CA00	CP 040 - Communication processor, RS422/485 interface, Communication: ASCII, 3946R, ModbusRTU/ASCII (Master/Slave, short/long) lenth of telegram: max. 250Byte, up to 250 telegrams receive-/send buffer: 1024Byte

POTENTIAL DISTRIBUTOR-MODULES MAX. TERMINAL CURRENT 10A	
Order No.:	Name / Technical data
001-1BA00	Potential distributor module 24V/8xDC +24V clamps
001-1BA10	Potential distributor module 24V/8xDC 0V clamps
001-1BA20	Potential distributor module 24V/4xDC +24V and 4xDC 0V terminals

POWER-MODULES INCL. 001-0AA00 TERMINAL-MODULE	
Order No.:	Name / Technical data
007-1AB00	Power Supply connection module, DC 24V, max. 10A
007-1AB10	Power Supply connection module, DC 24V, max. 4A with integrated power supply 5V/2A for the internal electronics

INTERFACE-MODULE (IM)

The space-saving Interface-Module represents the interface between process level and bus system. All control signals are transmitted to the Electronic Module through the internal backplane bus.

- Supports various fieldbus systems
- Exchangeable Power Module, easy to maintain
- Functional DIP-switch for address setting for PROFIBUS-DP and CANopen with transparent cover
- IP addressing in clear text on the front
- Potential decoupled between fieldbus and input/output level
- Up to 64 Signal and Function Modules per Interface Module

FUNCTION-MODULES (FM)

Electronic Module for realization of automation requirements, e.g. fast counting. For measuring and positioning the following function modules will complement the SLIO® system in future:

- SSI-Module
- Counter-Module
- Others in preparation

POTENTIAL DISTRIBUTOR-MODULES	
Order No.:	Name
950-0KD30	SLIO Line Extension Cable, length: 2m, 2x RJ45
290-1AF00	35 mm Alu DIN-Profile Rail, Length: 2000mm
290-1AF30	35 mm Alu DIN-Profile Rail, Length: 530mm
000-0AB00	SLIO Shield Bus Carrier, 10 pieces

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VIPA CONTROLS AMERICA

SLIO – The smart I/O system
Bus Terminals

SIGNAL-MODULE (SM)

Electronic Module for connection of sensors and actuators, registration of digital and analog signals in and out of the process.

- Direct allocation and monitoring of channel status via state LEDs
- Secure and time-saving installation due to terminal assignment on the module
- Item designation will remain unchanged in case of module exchange
- Individual labeling of channels with blank strips

SPACE AND TIME-SAVING CONNECTION TECHNOLOGY

- Space-saving staircase-shaped wiring with cage clamps
- Quick pre-wiring due to separate installation level
- Easy module exchange due to standing wiring
- High modularity due to 2, 4 and 8 channel modules

ETS TIMESTAMP SYSTEM

There are digital input and output modules with order memory (FIFO) available to buffer the signal edges. These terminals are marked with the abbreviation ETS (Edge Timestamp System). SLIO ETS offers a temporary significantly improved exactness at the µs area for all supported fieldbus systems.

THE SAFETY MODULES FOR SLIO:

- 4-channel or 2-channel inputs and outputs for higher Safety requirements (SIL3)
- Digital signals: 24 V
- Used Safety protocol: PROFIsafe for PROFIBUS and PROFINET
- Up to 4095 Safety modules in an equipment possibly
- Safe parameters: Input delay, change-over between one and two channel analysis, channel activation a.s.o.
- Response times <10 ms
- Registration to SIL3 (Safety Integrity level) and PL e (performance level)

SIGNAL-MODULES DIGITAL INPUT	
Order No.:	INCL. 001-0AA00 TERMINAL MODULE Name / Technical data
021-1BB00	SM 021 - Digital input / DI 2xDC 24V
021-1BB50	SM 021 - Digital input / DI 2xDC 24V, NPN
021-1BD00	SM 021 - Digital input / DI 4xDC 24V
021-1BD40	SM 021 - Digital input / DI 4xDC 24V (4x2/3--wire)
021-1BD50	SM 021 - Digital input / DI 4xDC 24V, NPN
021-1BF00	SM 021 - Digital input / DI 8xDC 24V
021-1BF01	SM 021 - Digital input / DI 8xDC 24V, 0,5 ms
021-1BF50	SM 021 - Digital input / DI 8xDC 24V, NPN
021-1DF00	SM 021 - Digital input / DI 8xDC 24V, wiring diagnosis
021-1BB10	Digital input SM 021, DI 2 x speed inputs, input filter time delay parameterized 2µs ... 4ms, PB: 9
021-1BD10	Digital input SM 021, DI 4 x fast inputs, input filter time delay parameterized 2µs ... 4ms, PB: 11

SIGNAL-MODULES DIGITAL OUTPUT	
Order No.:	INCL. 001-0AA00 TERMINAL MODULE Name / Technical data
022-1BB00	SM 022 - Digital output / DO 2xDC 24V, 0,5A
022-1BB50	SM 022 - Digital output / DO 2xDC 24V, 0,5A, NPN
022-1BB20	SM 022 - Digital output / DO 2xDC 24V, 2A
022-1HB10	SM 022 - Digital output / DO 2xDC 30V/AC 230V, 3A relays, potential decoupled per channel
022-1HD10	SM 022 - Digital output / DO 4xDC 30V/AC 230V, 1,8A relays, potential decoupled per channel
022-1BD00	SM 022 - Digital output / DO 4xDC 24V, 0,5A
022-1BD50	SM 022 - Digital output / DO 4xDC 24V, 0,5A, NPN
022-1BD20	SM 022 - Digital output / DO 4xDC 24V, 2A
022-1BF00	SM 022 - Digital output / DO 8xDC 24V, 0,5A
022-1BF50	SM 022 - Digital output / DO 8xDC 24V, 0,5A, NPN
022-1DF00	SM 022 - Digital output / DI 8xDC 24V, 0,5A, wiring diagnosis
022-1BB90	SM 022 - PWM - Digital output / DO 2xDC 24V, 0,5A, max. 40kHz, PB:12

ETS SIGNAL-MODULES DIGITAL	
Order No.:	INCL. 001-0AA00 TERMINAL MODULE Name / Technical data
021-1BB70	ETS Digital input SM 021, DI 2 x 24VD, PB: 10 ETS-Buffer: 15 time stamps, Time resolution: 1µsec
022-1BB70	ETS Digital output SM 022, DO 2 x 24VDC/0,5A, PB: 6 ETS-Buffer: 15 time stamps, Time resolution: 1µsec
021-1BD70	ETS Digital input SM 021, DI 4 x 24VDC, PB: 12 ETS-Buffer: 15 time stamps, Time resolution: 1µsec
022-1BD70	ETS Digital output SM 022, DO 4 x 24VDC/0,5A, PB: 6 ETS-Buffer: 15 time stamps, Time resolution: 1µsec

SAFETY-MODULES	
Order No.:	INCL. 001-0AA00 TERMINAL MODULE Name / Technical data
21-1SD00	SM 021 - SAFETY Digital input / DE 4xDC 24V, PB: 44
22-1SD00	SM 022 - SAFETY Digital output / DA 4xDC 24V/0,5A, PB: 44

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Bus Terminals

SIGNAL-MODULES ANALOG INPUT 12BIT INCL. 001-0AA00 TERMINAL MODULE	
Order No.:	**Name / Technical data**
031-1BB10	SM 031 - Analog input / AI 2x12Bit, (0) 4 - 20mA supply 2x 35mA for 2x 2-wire sensors integrated, PB: 15
031-1BB30	SM 031 - Analog input / AI 2x12Bit, 0 - 10V, PB: 6
031-1BB40	SM 031 - Analog input / AI 2x12Bit, (0) 4 - 20mA, PB: 6
031-1BB60	SM 031 - Analog input / AI 2x12Bit, (0) 4 - 20mA, sensor, PB: 6
031-1BB70	SM 031 - Analog input / AI 2x12Bit, -10V ... +10V, PB: 6
031-1BD30	SM 031 - Analog input / AI 4x12Bit, 0 - 10V, PB: 8
031-1BD40	SM 031 - Analog input / AI 4x12Bit, (0) 4 - 20mA, PB: 8
031-1BD70	SM 031 - Analoge input / AI 4x12Bit, -10V ... +10V, PB: 8
031-1BF60	SM 031 - Analog input / AI 8x12Bit, (0) 4 - 20mA, PB: 10
031-1BF74	SM 031 - Analoge input / AI 8x12Bit, -10V ... +10V, PB: 10

SIGNAL-MODULES ANALOG INPUT 16BIT INCL. 001-0AA00 TERMINAL MODULE	
Order No.:	**Name / Technical data**
031-1CB30	SM 031 - Analog input / AI 2x16Bit, 0 - 10V, PB: 20
031-1CB40	SM 031 - Analog input / AI 2x16Bit, (0) 4 - 20mA, PB: 20
031-1CB70	SM 031 - Analog input / AI 2x16Bit, -10V ... +10V, PB: 20
031-1CD30	SM 031 - Analog input / AI 4x16Bit, 0 - 10V, PB: 32
031-1CD35	SM 031 - Analog input / AI 4x16Bit, 0 - 10V, PB: 9
031-1CD40	SM 031 - Analog input / AI 4x16Bit, (0) 4 - 20mA, PB: 32
031-1CD45	SM 031 - Analog input / AI 4x16Bit, (0) 4 - 20mA, PB: 9
031-1CD70	SM 031 - Analog input / AI 4x16Bit, -10V ... +10V, PB: 32
031-1BD80	SM 031 - Analog input / AI 4x16Bit, R, RTD (2x3/4-wire), PT100/PT1000, Ni100/Ni1000, 0 - 3000 Ohm, PB: 34
031-1LD80	SM 031 - Analog input / AI 4x16Bit, R, RTD (2x3/4-wire), PT100/PT1000, Ni100/Ni1000, 0 - 3000 Ohm, PB: 12
031-1BB90	SM 031 - Analog input, AI 2x16Bit, TC (-80mV..+80mV), ThermocouplerTyp B, C, E, J, K, L, N, R, S, T, PB: 22 Terminal Module 001-0AA20 with temperature compensation included
031-1LB90	SM 031 - Analog input, AI 2x16Bit, TC (-80mV..+80mV), ThermocouplerTyp B, C, E, J, K, L, N, R, S, T, PB: 10 Terminal Module 001-0AA20 with temperature compensation included
031-1CA20	SM 031 - DMS-Module, single channel, full bridge, 16 (24) Bit auto/self calibration, parallel operation of load cells, onboard power supply 2,5V, 5V, 7,5V, 10V, 12V

| SIGNAL-MODULES ANALOG OUTPUT 12BIT INCL. 001-0AA00 TERMINAL MODULE	
Order No.:	**Name / Technical data**
032-1BB30	SM 032 - Analog output / AO 2x12Bit, 0 - 10V, PB: 8
032-1BB40	SM 032 - Analog output / AO 2x12Bit, (0) 4 - 20mA, PB: 8
032-1BB70	SM 032 - Analog output / AO 2x12Bit, -10V ... +10V, PB: 8
032-1BD30	SM 032 - Analog output / AO 4x12Bit, 0 - 10V, PB: 10
032-1BD40	SM 032 - Analog output / AO 4x12Bit, (0) 4 - 20mA, PB: 10
032-1BD70	SM 032 - Analog output / AO 4x12Bit, -10V ... +10V, PB: 10

SIGNAL-MODULES ANALOG OUTPUT 16BIT INCL. 001-0AA00 TERMINAL MODULE	
Order No.:	**Name / Technical data**
032-1CB30	SM 032 - Analog output / AO 2x16Bit, 0 - 10V, PB: 8
032-1CB40	SM 032 - Analog output / AO 2x16Bit, (0) 4 - 20mA, PB: 8
032-1CB70	SM 032 - Analog output / AO 2x16Bit, (0) 4 - 20mA, PB: 8
032-1CD30	SM 032 - Analog output / AO 4x16Bit, 0 - 10V, PB: 10
032-1CD40	SM 032 - Analog output / AO 4x16Bit, (0) 4 - 20mA, PB: 10
032-1CD70	SM 032 - Analog output / AO 4x16Bit, (0) 4 - 20mA, PB: 10

SIGNAL MODULES ANALOG

Signal modules (SM) to connecting sensors and actuators are the interfaces of the system to the process. Analog signal modules acquire the analog control signals (e.g. measurement data) to and out of the process level. Depending on the application and type the control signals are acquired from the process level and converted into interpretable signals for controlling. Analog output modules convert the internal control signals into signals suitable for the process level.
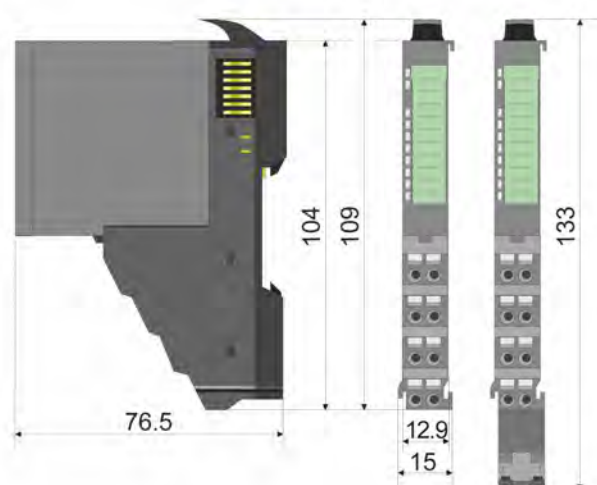
A variety of different analog signal modules accurately provide the inputs and outputs that are required for each task. The analog modules differ in the number of channels, voltage and current ranges, isolation, and diagnostic and alarm capability.

CHARACTERISTICS

- 2 or 4 channel with 12 bit or 16 bit resolution
- Functions of the inputs / outputs programmable
- Most various assemblies, suitable for measuring transducers (current/voltage, resistance or temperature sensors)
- Direct mapping and readability of the channel conditions via status LEDs
- Safe and time-saving installation by the terminal assignment mounted on the module
- When changing the module equipment identification (BMK) is retained on the TM
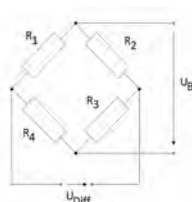- Individual single-channel lettering on insertion strip

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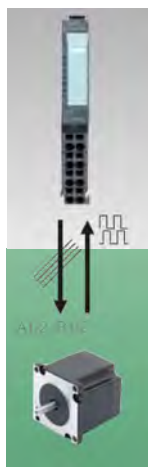
Bus Terminals

SLIO DMS-Modules

The SLIO DMS modules allows direct connection of a resistor full bridge (DMS) or load cell in the 4- or 6-wire connection. Power supply already integrated.

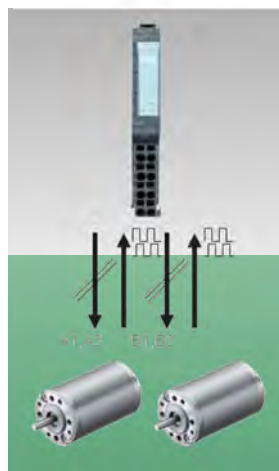### Typical fields of applications

- Filling level monitoring of silotanks and bunkers
- Measuring and determination of rope and crane loads
- Force measuring, Container scales, Platform scales, Crane scales

DMS-MODULE
INCL. 001-0AA00 TERMINAL MODULE
Order No.:   **Name / Technical data**
031-1CA20   SM 031 - DMS-Module, single channel, full bridge, 16 (24) Bit auto/self calibration, parallel operation of load cells, onboard power supply 2,5V, 5V, 7,5V, 10V, 12V

STEPPER Module

Operating types
- Reference
- Positioning
- Speed control

MOTION-MODULES		
INCL. 001-0AA00 TERMINAL MODULE		
Order No.:	**Name / Technical data**	
054-1BA00	FM 054 - stepper module / 1-channel with feedback, 2 outputs 24VDC/1,5A, 2 inputs 24 VDC, current control frequency 32 kHz, step pattern 64-times microstepping	
054-1CB00	FM 054 - DC-motor module / 2-channel with feedback, 2 outputs 24VDC for 2x 1,5A DC motors, 2 inputs 24 VDC, PWM clock frequency 32 kHz	
054-1DA00	FM 054 - Pulse Train Output Module / 1-channel RS422 with feedback, 2 outputs A/B phase 24 VDC, 2 inputs VDC, 0 to 1.000 kHz	

DC-Motor module

Operating types
- Reference
- Positioning
- Speed / torque control

PulseTrain module

Operating types
- Reference
- Positioning
- Speed control

SLIO Energiemess-Modul

The module allows the measurement of electric data for counting energy and power measurement. Here, the voltage measurement of each phase is directly measured and the current is measured indirectly via current transformers. In consideration of the permissible total current, you can also perform an energy measurement on devices, which are within the same phase.

- 3-phase and neutral wires 230/400V 1A
- Retentive storage of the energy values
- Diagnostic function
- Resolution of the measured value 24bit
- The following measurements can be found in 4-quadrant operation:
  – Voltage, current
  – Electrical power
  – Electrical work
  – Harmonics
  – Phase shift cos phi
  – Frequency

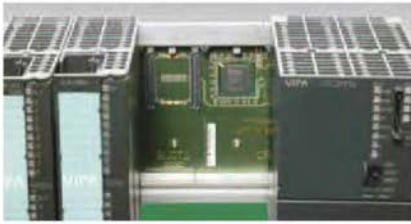| ENERGYMEASURE-MODULE |
|---|
| INCL. 001-0AA00 TERMINAL MODULE |
| **Order No.:**   **Name / Technical data** |
| **031-1PA00**   SM 031 - Energymeasure-Module, 1/3-phase, 230/400VAC resolution measured value 24 bit, avialable measurement: active energy, temperature, frequency, voltage RMS, current RMS, active power, reactive power, apparent power, cos phi, harmonic voltage RMS, harmonic current RMS |

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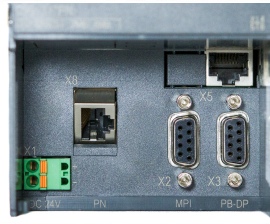| VIPA 300S+

SPEED7-TECHNOLOGY

CPU-Modules

SPEED-Bus

- The patented and unique VIPA SPEED bus is available in select CPUs for very fast appli-cations.
- A clear competitive advantage for you and your application.

Interfaces

- In addition to the MPI and PtP interfaces, an Ethernet-PG/OP interface is, of course, always available.
- This interface will remain our standard.

Memory management

- Expand your work memory by inserting a VIPA MCC without changing the CPU.
- This will remain our standard.

Performance

- Because of the enormously powerful SPEED7 chip you will find hardly any limitations in automation technology.
- Powerful, flexible and very communicative.

User friendly

- All 300S are programmable via SPEED7 Studio from VIPA or via tools of other manufacturers as well as STEP®7 and TIA Portal by SIEMENS.
- With VIPA, you decide which engineering tool you want to apply!

Compatible

- The mixture of VIPA modules with modules of other manufacturers is of course possible.
- This also minimizes your warehousing costs. Just think about it!

TECHNICAL DATA	312SC	313SC	313SC/DPM	314SC/DPM	314ST/DPM	315SB/DPM	315SN/NET	315PN	317SE/DPM	317SN/NET	317PN
Work memory (50% program /50% data)	128kB - 1MB	256kB - 1MB		512kB - 2MB	512kB - 2MB	1MB - 4M			2MB - 8MB		
Processing time (Bit/Word/Fix-/Floatingpoint in nanoseconds)	21/125	21/125		11/63		13/75			10/58		
Number range: FB, FC,				2047					8191		
DB				4095					8191		
Bit memory / Counter / Timer				8192 / 512 / 512					16K / 2K / 2K		
Local data loc. (per Prio class configurable) I/			512Byte			8192Byte (configurable)					
O Adress area			1024 / 1024Byte			2048 / 2048Byte			8192 / 8192Byte		
Process image I/O			128 / 128Byte			8192 / 8192Byte					
MPI max. Speed			187,5kBit			12 MBd					
Fieldbus: PROFIBUS-DP-Master integrated	--	--	✔	✔	✔	✔	✔	✔	✔	✔	✔
Fieldbus: PROFINET-Master integrated	--	--	--	--	--	--	--	✔	--	--	✔
Feldbus: ETHERCAT-Master integriert	--	--	--	--	--	--	--	--	--	--	--
PtP	✔	✔	✔	--	--	--	--	--	--	--	--
PtP on PROFIBUS jack toggleable	--	--	✔	✔	✔	✔	✔	✔	✔	✔	✔
PtP on PROFIBUS jack/MPI jack toggleable	--	--	--	✔	--	--	--	--	--	--	--
Ethernet PG/OP-Port integrated/Connections	✔/ 4	✔ / 4	✔ /4	✔ / 4	✔ / 4	✔ / 4	✔ / 4	✔ / 4	✔ / 4	✔ / 4	✔ / 4
Ethernet CP 343 integrated/Connections	-- / --	-- / --	-- / --	-- / --	-- / --	-- / --	✔/ 32	✔/ 32	-- / --	✔/ 32	✔/ 32
ISOonTCP/ISO(H1)/S7/TCP/UDP Connections	--	--	--	--	--	--	8	8	--	64	24
MOTION-axis integrated	--	--	--	--	--	--	--	--	--	--	--
VIPA SPEED-BUS	--	--	--	--	✔	--	--	--	✔	✔	✔
AI / AO/ Pt100	-- / -- / --	4 / 2 / 1	4 / 2 / 1	4 / 2 / 1	4 / 2 / 1	-- / -- / --	-- / -- / --	-- / -- / --	-- / -- / --	-- / -- / --	-- / -- / --
DI / DO/ DIO's	16 / 8 / --	24 /16 /--	16 /16 /--	24 / 16 / 8	8 / -- / 8	-- / -- / --	-- / -- / --	-- / -- / --	-- / -- / --	-- / -- / --	-- / -- / --
Counter / PWM or Stepper (switchable)	2 (10kHz)	3 (30kHz)	3 (30kHz)	4 (60kHz)	4 (100kHz)	--	--	--	--	--	--
Dimensions in mm: (W x H x D)	80x125x130	120x125x130	80x125x130	120x125x130	80x125x130	40x125x130			80x125x130		

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SPEED7-TECHNOLOGY
CPU-Modules

SPEED7 BY VIPA – VERY FAST STEP®7-CPUs

VIPA CPUs and peripheral modules with the instruction set S7-300® by Siemens are more than 20 times faster than the similar S7-300® products. VIPA offers SPEED7, the technology of tomorrow, based on a million times proven STEP®7-programming platform. A flexible memory management covers all possible applications from 64kByte to 1MByte. Program and data are stored in one memory, no extra loading memory is necessary. A pluggable MMC-Card allows configuration as well as project and data saving in a FAT16 format compatible with PC.

PROFIBUS-DP master and Ethernet for PG communication, online maintenance and OP communication are always on Board (PtP). The well known serial system bus from the S7-300® series by SIEMENS is completely supported and allows the use of the S7-300® units of SIEMENS and VIPA. All important certifications exist. The complete STEP®7/ S7-300® command set is available and was tested for full accuracy, examined from an independent Test institute in extensible test rows.

Order No.:	SPEED7-CPUs Technical data
VIPA 312-5BE23	CPU 312SC-SPEED7 technology DC 24V, incl. 64kByte (up to 512kByte), MPI interface, MMC slot, clock, 16DI, 16 of it for alarming, 8DO 24VDC/0,5A, 2x counter (10Khz) RS485 interface with library for ASCII, STX/ETX, 3964R, Modbus master protocols, Ethernet interface for PG/OP communication. HW identification: 6ES7312-5BE03-0AB0 + 6GK343-1EX11-0XE00, 8 I/O-units per line
VIPA 313-5BF23	CPU 313SC-SPEED7 technology DC 24V, incl. 128kByte (up to 512kByte), MPI interface, MMC slot, clock, 24DI, 16 of it for alarming, 16DO 24VDC/0,5A, AI 4x12Bit(U/I), 1x12Bit(PT100), AO 2x12Bit(U/I), 3x counter (30Khz), RS485 interface with library for ASCII, STX/ETX, 3964R, Modbus master protocols, Ethernet interface for PG/OP communication. HW identification: 6ES7313-5BF03-0AB0 + 6GK343-1EX11-0XE00, 8 I/O-units per line
VIPA 313-6CF23	CPU 313SC/DPM-SPEED7 technology DC 24V, incl. 128kByte (up to 512kByte), MPI interface, MMC slot, clock, 16DI, 16 of it for alarming, 16DO 24VDC/0,5A, 3x counter (30Khz), PROFIBUS-DP master/slaves with 12Mbps and up to 125 slaves, alternative RS485 interface with library for ASCII, STX/ETX, 3964R, Modbus master protocols, Ethernet interface for PG/OP communication. HW identification: 6ES7313-6CF03-0AB0 + 6GK343-1EX11-0XE00, 8 I/O-units per line
VIPA 314-6CG23	CPU 314SC/DPM-SPEED7 technology DC 24V, incl. 256kByte (up to 1MByte), MPI interface, MMC slot, clock, 24DI, 16 of it for alarming, 16DO 24VDC/0,5A +8 DI/O in addition, AI 4x12Bit(U/I), 1x12Bit(PT100), AA 2x12Bit(U/I), 4x counter (60Khz), PROFIBUS-DP master/slave with 12Mbps and up to 125 slaves, alternative RS485 interface with library for ASCII, STX/ETX, 3964R, Modbus master protocols, Ethernet interface for PG/OP communication. HW identification: 6ES7314-6CG03-0AB0 + 6GK343-1EX11-0XE00, 8 I/O-units per line

MCC-MEMORY CONFIGURATION CARD

VIPA MCC offers the possibility to extend the RAM of SPEED7 CPUs. The MCC is a specifically prepared MMC (multimedia Card). Plug the MMC into the card slot and execute an overall reset and the extension becomes available. The MCC must remain plugged in, otherwise the CPU switches to STOP after 48 hrs.

The MCC can't be exchanged to a MCC with the same memory configuration, but it can be used for the project backup (Copy RAM > ROM). The shown MCC memory value increases the already available basic memory of the CPU by the value of the card. However, the maximum memory shown of the CPU can't be overridden, even if a bigger memory extension is plugged in.

Order No.:	MEMORY CONFIGURATION CARD Additional memory extension:
VIPA 953-1LE00	32kByte (16kByte program/16kByte data)
VIPA 953-1LF00	64kByte (32kByte program/32kByte data)
VIPA 953-1LG00	128kByte (64kByte program/64kByte data)
VIPA 953-1LH00	256kByte (128kByte program/128kByte data)
VIPA 953-1LJ00	512kByte (256kByte program/256kByte data)
VIPA 953-1LK00	1MByte (512kByte programm/512kByte data)
VIPA 953-1LL00	2MByte (1MByte programm/1MByte data)
VIPA 953-1LM00	4MByte (2MByte program/2MByte data)
VIPA 953-1LP00	8MByte (4MByte program/4MByte data)

All cards have a minimum capacity of 512MByte and can be used additional for programm backup.

VIPA 953-0K X10

MMC flashcard, 512MByte, only for program back up, recommended if no MCC-Card is used.

VIPA CONTROLS AMERICA

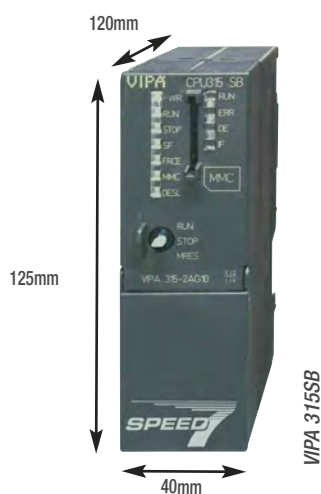# SPEED7-TECHNOLOGY

CPU-Modules

SPEED Studio 7

SPEED7 BY VIPA – VERY FAST STEP®7-CPUs

VIPA CPUs and peripheral modules with instruction set S7-300®/S7-400® by Siemens are faster than the currently strongest S7-300®, S7-400® systems. VIPA offers SPEED7, the technology of tomorrow, based on a million times proven STEP®7-programming platform. A flexible memory management covers all possible applications from 64kByte to 8MByte. Program and data are stored in one memory, so no extra loading memory is necessary. A pluggable MMC-Card allows configuration as well as project and data security in a FAT16 format compatible with PC. PROFIBUS-DP master or optional master CANopen and Ethernet for PG communi-cation, on-line maintenance and OP communication are always on Board (PtP).

In addition, an EthernetCP is able to become integrated directly into the CPU cabinet, compatible with CP343, 10/100Mbps.
The well known serial system bus from the S7-300® series by Siemens is completely supported and allows the use of the S300® units of SIEMENS and VIPA. Not only are 8 modules able to be switched on, but also the CPUs support to drive up to 32 modules in a line.
All relevant certifications exist. The complete STEP®7/S7-300®/400®er command set is available and has been examined by an independent test institute in extensible test rows to ensure complete accuracy.

120mm

125mm

40mm

VIPA 315SB

120mm

125mm

80mm

VIPA 315SN

SPEED7-CPUs	
Order No.:	**Technical data**
VIPA 314-2BG23	CPU 314SE/DPS-SPEED7 technology, DC 24V, incl. 128kByte (up to 512kByte), MPI-interface, MMC-slot, clock, Ethernet interface for PG/OP communication. PROFIBUS-DP-Slave or RS485, PtP-Communication for ASCII-, STX/ETX-, 3964R-, ModbusRTU master protocol with library. HW identification: 6ES7315-2AG10-0AB0/V2.6 + 6GK343-1EX11-0XE00 32 I/O-units per line
VIPA 314-2AG23 *PROFI BUS®*	CPU 314SB/DPM-SPEED7 technology, DC 24V, incl. 256kByte (up to 512kByte), MPI interface, MMC slot, clock, Ethernet interface for PG/OP communication, PROFIBUS-DP master / Slave, 12MBd, up to 125 Slaves, 32 I/O-units per line (-2AG12) HW identification: 6ES7318-2AJ00-0AB0/V3.0 + 6GK343-1EX11-0XE00 (-2AG13) HW identification: 6ES7317-2AJ10 -0AB0/V2.6 + 6GK343-1EX11-0XE00
VIPA 315-2AG23 *PROFI BUS®*	CPU 315SB/DPM-SPEED7 technology, DC 24V, incl. 1MByte (up to 2 MByte), MPI interface, MMC slot, clock, Ethernet interface for PG/OP communication, PROFIBUS-DP master / Slave, 12MBd, up to 125 Slaves, 32 I/O-units per line (-2AG12): HW identification: 6ES7318-2AJ00-0AB0/V3.0 + 6GK343-1EX11-0XE00 (-2AG13): HW identification: 6ES7317-2AJ10 -0AB0/V2.6 + 6GK343-1EX11-0XE00
VIPA 315-4NE13 *PROFI BUS®*	CPU 315SN/NET-SPEED7 technology, DC 24V, 1MByte (up to 2 MByte), MPI interface, MMC slot, clock, Ethernet interface for PG/OP-Communication, PROFIBUS-DP master, 12MBd, up to 125 Slaves, add. integrated Ethernet-CP 343 with RFC1006, TCP/IP and S7 communication for 8 connections. 32 I/O-units per line (-4NE12): HW identification: 6ES7318-2AJ00-0AB0/V3.0 + 6GK343-1EX11-0XE00 + 6GK343-1EX21-0XE00 (-4NE13): HW identification: 6ES7317-2AJ10-0AB0/V2.6 + 6GK343-1EX11-0XE00 + 6GK343-1EX21-0XE00
VIPA 315-4PN12 *PROFI BUS®* *PROFI NET®*	315SN/NET-SPEED7 technology, DC 24V, incl. 1MByte (up to 2 MByte), MPI interface, MMC slot, clock, Ethernet interface for PG/OP-Communication, PROFINET- & PROFIBUS-DP master, additional integrated Ethernet-CP 343 with RFC1006, TCP/IP and S7 communication for 8 connections. 32 I/O-units per line HW identification: 6ES7315-2EH13-0AB0 + 6GK343-1EX11-0XE00
VIPA 315-4PN33 *PROFI NET®*	315SN/NET-SPEED7 technology, DC 24V, incl. 512kByte, MPI interface, MMC slot, clock, Ethernet interface for PG/OP-Communication, PROFINET-master, additional integrated Ethernet-CP 343 with RFC1006, TCP/IP and S7 communication for 8 connections. RS485 interface with library for ASCII, STX/ETX, 3964R, Modbus master protocols. 32 I/O-units per line HW identification: 6ES7315-2EH13-0AB0 V2.6 + 6GK343-1EX11-0XE00

SPEED7-EtherCAT-CPU	
VIPA 315-4EC12 EtherCAT *PROFI BUS®*	315SN/EC-SPEED7 technology, DC 24V, incl. 1MByte (up to 2 MByte), MPI interface, MMC slot, clock, Ethernet interface for PG/OP-Communication, EtherCAT master, PROFIBUS-DP master, additional integrated Ethernet-CP 343 with RFC1006, TCP/IP and S7 communication for 8 connections. 32 I/O-units per line HW identification: 6ES7315-2EH13-0AB0 + 6GK343-1EX11-0XE00
VIPA 315-4EC32 EtherCAT	315SN/EC-ECO-SPEED7 technology, DC 24V, incl. 512kByte, MPI interface, MMC slot, clock, Ethernet interface for PG/OP-Communication, EtherCAT master, additional integrated Ethernet-CP 343 with RFC1006, TCP/IP and S7 communication for 8 connections. RS485 interface with library for ASCII, STX/ETX, 3964R, Modbus master protocols. 32 I/O-units per line HW identification: 6ES7315-2EH13-0AB0 V2.6 + 6GK343-1EX11-0XE00

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SPEED7-TECHNOLOGY
CPU-Modules

SYSTEM COMPONENTS FOR SPEED BUS

To be able to use the high-speed system performance fully, up to 10 VIPA modules with the new VIPA 32bit highspeed-bus (40 MByte/s) can be connected to the left side of the CPU. Very fast E/A units and counters as well as PROFIBUS-DP master and
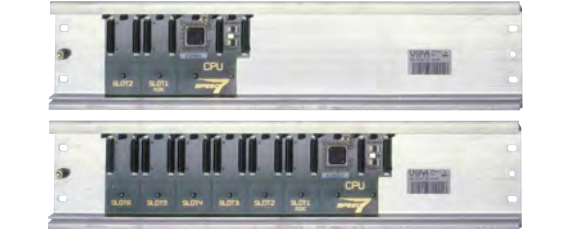
Interbus master units are available. Any of the VIPA High-Speed CPUs will be connected to the SPEED Bus rail. With the Standard-Bus, any VIPA or Siemens modules can quickly and easily be placed to the right.

Order No.:	SPEED7-CPUs FOR SPEED-BUS Technical data
VIPA 314-6CF23 PROFIBUS	CPU 314ST/DPM-SPEED7 technology DC 24V, incl. 512kByte (up to 2 MByte), MPI interface, SPEED-Bus, MMC slot, clock, Ethernet interface for PG/OP communication, DI 8-16 / DO 8-0, AI 4, AO 2, 1 PT100, 4 counters (100 kHz), PROFIBUS-DP master/slave, 12MBd, up to 125 Slaves, 32 I/O-units per line (-6CF02): HW identification: 6ES7318-2AJ00-0AB0/V3.0 + 6GK343-1EX11-0XE00 (-6CF03): HW identification: 6ES7317-2AJ10-0AB0/V2.6 + 6GK343-1EX11-0XE00
VIPA 317-2AJ13 PROFIBUS	CPU 317SE/DPM-SPEED7 technology, DC 24 V, incl. 2MByte (up to 8 MByte), MPI interface, SPEED-Bus, MMC slot, clock, Ethernet interface for PG/OP communication, PROFIBUS-DP master/slave, 12MBd, up to 125 Slaves, 32 I/O-units per line (-2AJ12): HW identification: 6ES7318-2AJ00-0AB0/V3.0 + 6GK343-1EX11-0XE00 (-2AJ13): HW identification: 6ES7317-2AJ10-0AB0/V2.6 + 6GK343-1EX11-0XE00
VIPA 317-4NE23 PROFIBUS	CPU 317SN/NET-SPEED7 technology, DC 24 V, incl. 2MByte (up to 8 MByte), MPI interface, SPEED-Bus, MMC slot, clock, Ethernet interface for PG/OP communication, PROFIBUS-DP master, 12MBd, up to 125 Slaves, add. integrated Ethernet-CP 343 with RFC1006, TCP/IP, S7 communication for max. 64 connections, 32 I/O-units per line (-4NE12): HW identification: 6ES7318-2AJ00-0AB0/V3.0 + 6GK343-1EX11-0XE00 + ..-1EX21-0XE00 (-4NE13): HW identification: 6ES7317-2AJ10-0AB0/V2.6 + 6GK343-1EX11-0XE00 + ..-1EX21-0XE00
VIPA 317-4PN12 PROFIBUS PROFINET	CPU 317SN/NET-SPEED7 technology, DC 24 V, incl. 2MByte (up to 8 MByte), MPI interface, SPEED-Bus, MMC slot, clock, Ethernet interface for PG/OP communication, PROFINET & PROFIBUS-DP-Master, additional integrated Ethernet-CP 343 with RFC1006, TCP/IP, S7 communication for max. 16 connections, 32 I/O-units per line HW identification: 6ES7317-2EK13-0AB0 with ProfiNet Master + 6GK343-1EX11-0XE00

	SPEED7-EtherCAT-CPU
VIPA 317-4EC12 EtherCAT PROFIBUS	CPU 317SN/NET-SPEED7 technology, DC 24 V, incl. 2MByte (up to 8 MByte), MPI interface, SPEED-Bus, MMC slot, clock, Ethernet interface for PG/OP communication, EtherCAT-Master, PROFIBUS-DP-Master, additional integrated Ethernet-CP 343 with RFC1006, TCP/IP, S7 communication for max. 16 connections, 32 I/O-units per line HW identification: 6ES7317-2EK13-0AB0 with ProfiNet Master + 6GK343-1EX11-0XE00

Order No.:	SPEED BUS PERIPHERAL MODULES Technical data
VIPA 342-1CA70	Speed bus, CANopen master RS485, 320 Bytes, up to 127 CAN knots.
VIPA 342-1DA70	Speed bus, PROFIBUS-DP master RS485, 12 MBaud, up to 125 Slaves.
VIPA 342-1IA70	Speed bus, interbus master, RS422, Dual port master, up to 512 subscribers, number of the process data: In 1920 binary I/Os.
VIPA 342-2IA71	Speed bus, 2x interbus master, 2x RS422, Dual port master, up to 512 subscribers, number of the process data: In 1920 binary I/Os.
VIPA 343-1EX71	SPEED-Bus, CP343S TCP/IP-Ethernet CP, S7 communication, RFC1006, H1, TCP/IP, UDP, up to 16 connections.
VIPA 321-1BH70	SM 321S-FAST SPEED-Bus, digital input DI 16xDC 24V, 2,56µs to 40ms adjustable.
VIPA 322-1BH70	SM321S-FAST SPEED-Bus, digital output TH 16x DC 24 V, 0.5A, 100kHz
VIPA 323-1BH70	N.M. 321S-FAST speed bus, digital input DI/O 16xDC24V, digital output DO 0,5A, 100 kHz, 2.56 µs to 40ms adjustable.
VIPA 331-7AF70	SM 331S-FAST SPEED-Bus, analog supported input AI 4x16Bit, 100µsec per channel, +/- 20mA, adjustable 32 kByte cache memories per channel after trigger.
VIPA 331-7BF70	N.M. 331S-FAST speed bus, analog input AI 8x16Bit, 100 µs per channel, +/-10 V, adjustable 32 kByte cache memory per channel after trigger.

Order No.:	SPEED BUS PROFILE RAILS 530
VIPA 391-1AF10	mm for 2 high-speed extension slots
VIPA 391-1AF30	530 mm for 6 high-speed extension slots
VIPA 391-1AF50	530 mm for 10 high-speed extension slots
VIPA 391-1AJ10	830 mm for 2 high-speed extension slots
VIPA 391-1AJ30	830 mm for 6 high-speed extension slots
VIPA 391-1AJ50	830 mm for 10 high-speed extension slots

	SPEED BUS POWER SUPPLY
VIPA 307-1FB70	PS307 power supply unit, only for SPEED-BUS units, Input:110...240VAC, Output: 24VDC, 6...12A

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SYSTEM 300V

Modules – I/O-Modules, CPs & Fieldbus-Units

VIPA 341-1CH01

VIPA 343-2AH10

VIPA 353-1DP01

PROFIBUS SLAVE ADAPTOR Technical Data	
Order No.:	
VIPA 353-1DP01	DP-Slave, 1 DP-connection, DP-V0, V1, max. 32 units / lines

COMMUNICATION PROCESSORS Technical Data	
Order. No.:	
VIPA 341-1AH01	RS232, SubD 9 pol., potential decoupled, ASCII, 3964R
VIPA 341-1CH01	RS422/485, SubD 9 pol., potential decoupled, ASCII, 3964R
VIPA 343-2AH10	AS-i-Master, Profil M3, max. 62 Slaves

ANALOG INPUT/OUTPUT Technical data	
Order No.:	
VIPA 331-1KF01	Analog input, 8x13Bit, 4 conductors, ±50, ±500mV, ±1, ±5, ±10V, 1...5V, 0...10V,±20mA, 0...20mA, 4...20mA, 0...600/60000hm, PT100, Ni100/1000
VIPA 331-7KB01	Analog input, 2x14Bit ±80, ±250, ±500mV, ±1V, ±2,5V, ±5V, ±10V, 1...5V, 10MOhm, ±10mA, ±20mA, ±3,2mA, 0...20mA, 4...20mA,150/300/600 Ohm, Pt100, Ni100, thermocouples J,R,K,N,L,E,T,S,B,C
VIPA 331-7KF01	Analog input, 8x14Bit ±80, ±250, ±500mV, ±1V, ±2,5V, ±5V, ±10V, 1...5V, 10MOhm, ±10mA, ±20mA, ±3,2mA, 0...20mA, 4...20mA,150/300/600 Ohm, Pt100, Ni100, thermocouples J,R,K,N,L,E,T,S,B,C
VIPA 332-5HB01	Analog output, 2x 13Bit, 0...10V, ±10V, 1...5V, 4...20mA, ±20mA, 0...20mA. Default value can be activated at PLC stop
VIPA 332-5HD01	Analog output, 4x 13Bit, 0...10V, ±10V, 1...5V, 4...20mA, ±20mA, 0...20mA. Default value can be activated at PLC stop
VIPA 334-0KE00	Analog input/output, 4 input/12Bit, 0...10V, Pt100 (RTD-4L), 0...10kOhm, 2 output/12Bit, 0...10V

VIPA 332-5HD01

VIPA 321-1BH01

VIPA 322-1BL00

DIGITAL INPUT	
Order No.:	Inputs
6VIPA 321-1BH01	16 24VDC
6VIPA 321-1BL00	32 24VDC
VIPA 321-1FH00	16 120/230VAC

DIGITAL INPUT AND OUTPUT	
Order No.:	Inputs & Outputs
VIPA 323-1BH01	8/8
VIPA 323-1BL00	16/16

| DIGITAL OUTPUT	
Order No.:	Outputs
VIPA 322-1BF01	8 Trans. outputs 24VDC/2A
VIPA 322-1BH01	16 Trans. outputs 24VDC/1A
VIPA 322-1BH41	16 Trans. outputs 24VDC/2A
VIPA 322-1BL00	32 Trans. outputs 24VDC/1A
VIPA 322-1HH00	16 Rel. outputs 24VDC/230V/5A
VIPA 322-5FF00	8 Triac. outputs 120/230VAC/2A
VIPA 322-1BH60	16 Trans. outputs 1 input manual 16 switsches A/H

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CONTROLS AMERICA

SPEED-Bus

## Details about the highest speed high-speed system

With VIPA 'SPEED7-Technology', the system 300S+ is one of the fastest machine control systems available. The maximum memory for program and data already has been embedded so that no additional memory card is necessary. VIPA 300S+ PLCs can offer up to 8MB. All PLCs are equipped with an additional Ethernet port for PG/OP operations. Some PLCs come with a CP343 interface for TCP/IP communications. PROFIBUS, PROFINET and EtherCAT are the main standards as Master. Because of its high performance and scalable memory the system 300S+ is especially suited for mid- to high-range applications. VIPA offers the perfect control solution for each application.

The best-in-class extremely fast extension option of VIPA, the SPEED-Bus system, is designed for very fast applications were very high output is required. Besides the necessary PLCs VIPA also offers high-performance modules, such as DIO, AIO, fieldbus (PROFIBUS, ModBUS TCP, InterBUS, CANopen) and communication modules. Programmable with STEP7 and TIA Portal from Siemens, or WinPLC7 and SPEED7 Studio from VIPA.
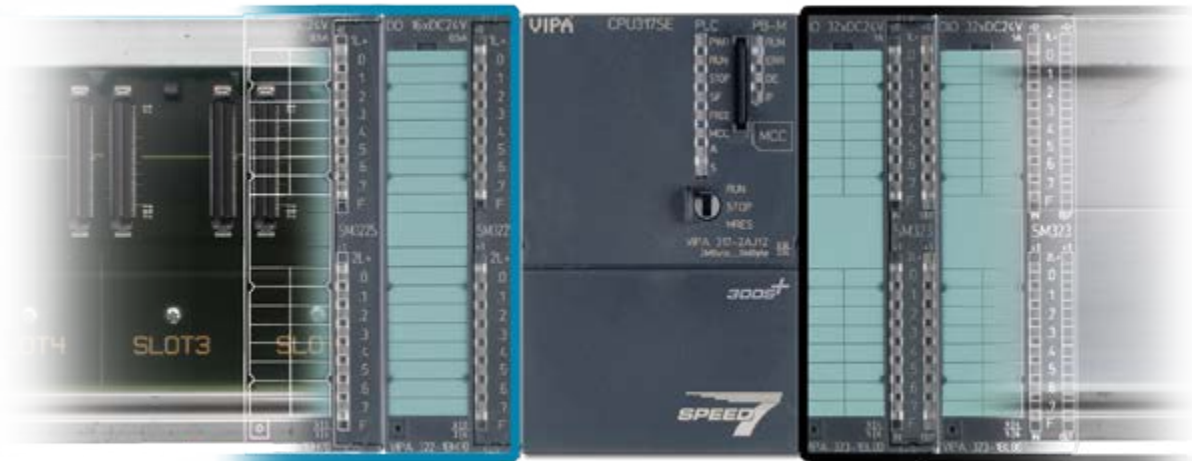
VIPA SPEED-BUS   Standard V-Bus
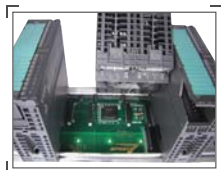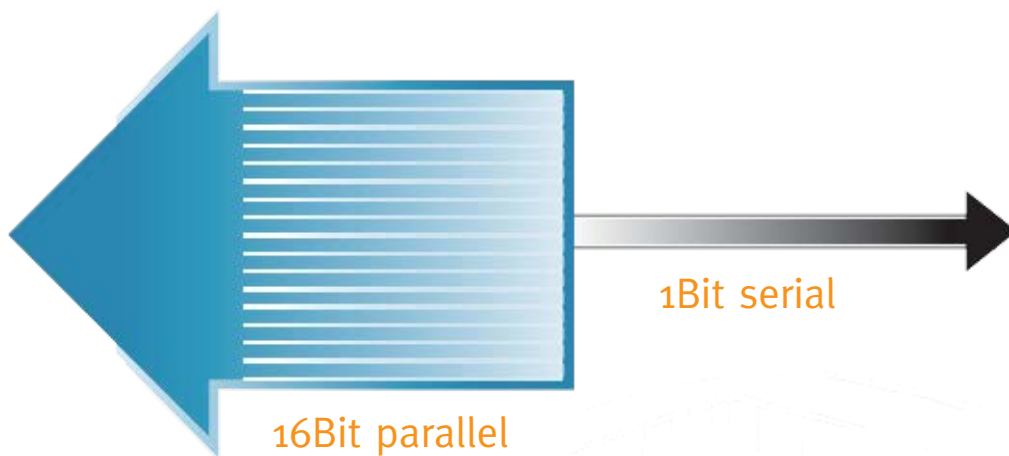
Picture
Left: Highspeed-modules placed onto the SPEED-Bus from VIPA
Middle: SPEED7-CPU
Right: Standard bus modules from VIPA or Siemens

1Bit serial

16Bit parallel

> Speed 64MBit
> about 58MBit/s met
> up to 10 modules
> very fast periphery
> very fast communication

> max. Speed 6MB to 1.5MBit
> about 1.5MB to 0.5MBit/s net
> up to 32 modules

VIPA
CONTROLS AMERICA

SYSTEM 300V
Accessories – memory cards, profile rails, connectors, power supplies

Best. Nr.:	MMC-FLASHCARD
VIPA 953-0KX10	512MByte flashcard, only for program back-up, recommended if no MCC-Card is used.

Order No.:	MEMORY CONFIGURATION CARDS Additional memory extension:
VIPA 953-1LE00	32kByte (16kByte program/16kByte data)
VIPA 953-1LF00	64kByte (32kByte program/32kByte data)
VIPA 953-1LG00	128kByte (64kByte program/64kByte data)
VIPA 953-1LH00	256kByte (128kByte program/128kByte data)
VIPA 953-1LJ00	512kByte (256kByte program/256kByte data)
VIPA 953-1LK00	1MByte (512kByte programm/512kByte data)
VIPA 953-1LL00	2MByte (1MByte programm/1MByte data)
VIPA 953-1LM00	4MByte (2MByte program/2MByte data)
VIPA 953-1LP00	8MByte (4MByte program/4MByte data)

All cards have a minimum capacity of 512MByte and can be used
additionally for program back-up.

Order No.:	POWER SUPPLIES Technical data
VIPA 307-1BA00	Primary: 100-230VAC, Secondary: DC 24V, 2,5A
VIPA 307-1EA00	Primary: 100-230VAC, Secondary: DC 24V, 5A
VIPA 307-1KA00	Primary: 110...240VAC, Secondary: DC 24V, 10A

Order No.:	FRONT CONNECTOR Technical data
VIPA 392-1AJ00	20-pole with screw contact
VIPA 392-1AM00	40-pole with screw contact
VIPA 922-3BC50	20-pole with 2,5m cable
VIPA 922-3BD20	20-pole with 3,2m cable
VIPA 922-3BF00	20-pole with 5,0m cable
VIPA 922-6BC50	40-pole with 2,5m cable
VIPA 922-6BD20	40-pole with 3,2m cable
VIPA 922-6BF00	40-pole with 5,0m cable

Order No.:	PROFILE RAILS	
	Length	max. mounting
VIPA 390-1AB60	160mm	1 CPU / 1 Unit
VIPA 390-1AE80	482mm	1 CPU / 8 Unit
VIPA 390-1AF30	530mm	1 CPU / 10 Unit
VIPA 390-1AJ30	830mm	1 CPU / 16 Unit
VIPA 390-1BC00	2000mm	1 rail
VIPA 390-9BC00	2000mm	ECO-stack, 10 rails

Best. Nr.:	PROGRAMMING ADAPTERS
VIPA 950-0KB01	S7-MPI adaptor for PC/RS 232COM interfaces, automatic Baud rate setting 9.6 - 115 kBaud, suitable for the use with STEP®7 by SIEMENS, Cable length MPI 1.2m, serial cable 3m, Supply via CPU, PG interface.
VIPA 950-0KB31	S7-MPI adaptor for PC USB interface, incl. USB driver suitable for the use with STEP®7 of SIEMENS, Cable length MPI 1.2m, serial cable 3m, supply via USB-interface. (Win7 32 bit)

VIPA 950-0KB31

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www.vipausa.com

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| VIPA 200V

SYSTEM 200V – STEP®7 programmable
Modular PLC-System – CPU-, Fieldbus-Interfaces

The CPUs of the system 200V need only 30% of the space required of the S7-300® CPUs, but nevertheless operate with the full STEP®7 instruction set S7-315® by SIEMENS.
Through the standard MPI interface via PG programming unit, PC adaptor and operator panels from SIEMENS, ESA, ADVANTECH, VIPA a.s.o. can be connected. To save the project, a custom MMC card can be used.

The RAM and Flash memory necessary for the operation are included in the CPU. Additionally PROFIBUS-DP master, DP-Slave, RS232 interface or TCP/IP CP-unit can be combined in different CPU variations. High memory sizes up to 128kByte program memory and 192kByte load memory with short cycle times offer a big area of application. A CPU can supply up to 32 units.

Dimensions 1 slot
(H x W x D): 76 x 25,4 x 74mm
Dimensions 2 slots
(H x W x D): 76 x 50,8 x 74mm

CPU		
CPU HW identification uniformly: 6ES7315-2AG10-0AB0/V2.6		
CPU 21x Order No.:	Memory/ Load memory	Inter- faces
VIPA 214-1BC06	48/80kByte	MPI
VIPA 214-1BA06	96/144kByte	MPI
VIPA 214-2BM06	96/144kByte	MPI/DP-Master
VIPA 215-1BA06	128/192kByte	MPI
VIPA 215-2BE06	128/192kByte	MPI / LAN (PG/OP)
VIPA 215-2BT16	128/192kByte	MPI / LAN (CP343)

CPU		
CPU HW identification uniformly: 6ES7315-2AF03-0AB0/V1.2		
CPU 21x Order No.:	Memory/ Load memory	Inter- faces
VIPA 214-1BC03	48/80kByte	MPI
VIPA 214-1BA03	96/144kByte	MPI
VIPA 214-2BE03	96/144kByte	MPI/LAN (PG/OP)
VIPA 214-2BP03	96/144kByte	MPI / DP-Slave
VIPA 214-2BM03	96/144kByte	MPI / DP-Master
VIPA 214-2CM03	96/144kByte	MPI/CANopen-Master
VIPA 214-2BS03	96/144kByte	MPI / 2xRS232
VIPA 214-2BS13	96/144kByte	MPI / 1xRS232
VIPA 214-2BS33	96/144kByte	MPI / 1xRS485
VIPA 214-2BT13	96/144kByte	MPI / LAN (CP343)
VIPA 215-1BA03	128/192kByte	MPI
VIPA 215-2BE03	128/192kByte	MPI/LAN (PG/OP)
VIPA 215-2BP03	128/192kByte	MPI/DP-Slave
VIPA 215-2BM03	128/192kByte	MPI/DP-Master
VIPA 215-2CM03	128/192kByte	MPI/CANopen-Master
VIPA 215-2BS03	128/192kByte	MPI / 2xRS232
VIPA 215-2BS13	128/192kByte	MPI / 1xRS232
VIPA 215-2BS33	128/192kByte	MPI / 1xRS485
VIPA 215-2BT13	128/192kByte	MPI / LAN (CP343)
VIPA 953-0KX10	512MByte	MMC flash card
VIPA 950-0KB00	–	PG/AG-download cable

FIELDBUS-SLAVE INTERFACES	
Order No.:	Technical data
VIPA 253-1DP01	PROFIBUS-DP, address 1-99
VIPA 253-1DP11	PROFIBUS-DP, LWL, address 1-99
VIPA 253-1CA01	CANopen, address 1-99
VIPA 253-1DN00	DeviceNet, address 0-63
VIPA 253-1IB00	Interbus, to 16 modules
VIPA 253-1NE00	Ethernet, ModbusTCP

FIELDBUS-SLAVE ECO INTERFACES	
Order No.:	Technical data
VIPA 253-1DP31	PROFIBUS DP-Slave, address 1-125, up to 8 units, DC 24 V, 12MBaud, DP-V0, DP-V1
VIPA 253-1CA30	CANopen-Slave, adress 1-125, up to 8 units, DC 24V, 1MBaud

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SYSTEM 200V – STEP®7 programmable

Modular PLC-System – I/O-Units, Accessories

FUNCTION MODULES	
Order No.:	Technical data
VIPA 238-2BC00	SM 238C system expansion, 12 DI, 4 DI/A 24VDC 1A, 6 (16bits)/3 (32bits) of counter 30kHz, 3x AI 12 bits: ±10V/4 V/400mV/20 mA and 4-20mA 1x AI 12 bits: Pt100 / 1000, Ni100/1000, 600/3000 ohm, 2xAA 12bits: ±10V/20 mA, 1-5V, 0-10V, 0-20mA, 4-20mA
VIPA 250-1BA00	2x32Bit / 4x16Bit incremental counter inputs 24VDC, max. 1Mhz, 2xDA 24VDC/1A
VIPA 250-1BS00	1x12/24 bits of counter input SSI, RS422, 600kBd, 2xDA 24VDC /1A
VIPA 253-1BA00	Positioning-module for stepping motor 1 axis, RS422, potential decoupled
VIPA 254-1BA00	Positioning-module FM for servomotor, 1 axis, incremental encoder RS422, potential decoupled, TU 3xDC 24 V, TH 2xDC 24 V/1A

Dimensions 1 slot
(H x W x D): 76 x 25,4 x 74mm

Dimensions 2 slots
(H x W x D): 76 x 50,8 x 74mm

CP- MODULES	
Order No.:	Technical data
VIPA 208-1DP01	PROFIBUS-DP master, up to 12Mbps, 100/200V
VIPA 240-1DA10	4 ports Ethernet Switch, 10/100Mbps, autonegotiation, speed sensing, crossover
VIPA 240-1BA20	RS232, DB9, ASCII, 3964R, MODBUS RTU/ASCII
VIPA 240-1CA20	RS485, DB9, ASCII, 3964R, MODBUS RTU/ASCII
VIPA 240-1CA21	RS422/RS485, DB9, ASCII, 3964R, MODBUS RTU/ASCII

M-BUS	
Order No.:	Technical data
VIPA 240-1FA20	Communication processor for M-Bus-system (Metering-Bus), 2-wire fieldbus for data acquisition of consumption, electrical isolated, up to 6 slaves possible.

ENOCEAN RADIOTRANSMITTER	
Order No.:	Technical data
VIPA 240-1EA20	Communication central processing unit for EnOcean, radio sensors, 868.3 MHz, SMA jack
VIPA 240-0EA00	EnOcean aerial for CP240, direct mounting on module
VIPA 240-0EA10	EnOcean aerial for CP240, magnet foot aerial incl. 1.5 m of cable

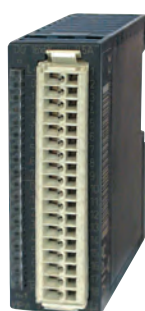| POWER PACKS & PASSIV TERMINALS	
Order No.:	MODULES Technical data
VIPA 207-1BA00	prim. AC 100-240VAC/sec. 24VDC, 2A
VIPA 207-2BA20	prim. AC 100-230VAC/sec. 24VDC, 2A ± on 2x11 terminals red/blue
VIPA 201-1AA00	2x11 terminals, in each case for the potential distribution, grey-grey
VIPA 201-1AA10	2x11 terminals, in each case for the potential distribution, green/yellow-grey
VIPA 201-1AA20	2x11 terminals, in each case for the potential distribution, red/blue
VIPA 201-1AA40	2x5 terminals, gray-gray 2x6 terminals, red/blue
VIPA 290-1AF30	35 mm Alu DIN-Rail, Length: 530mm

RADIOTECHNOLOGY FOR BUILDING AUTOMATION

EnOcean is a radio system without any power supply which was developed in 2001 by the company EnOcean. Based on the short signal duration of 0.5ms and 10mW transmitting power the radio transmission technology has a very low power demand of only 50 µ Ws. At this rate, the system uses energy from the smallest changes of pressure or temperature for the electricity supply of the sensors. The rangeof the sensors reaches up to 300m distance outside.

BACK WALL BUS	
Order No.:	Modules
VIPA 290-0AA10	1
VIPA 290-0AA20	2
VIPA 290-0AA40	4
VIPA 290-0AA80	8

Arbitrarily addable to max. 32 units.

| LINE EXTENTION	
Order No.:	Technical data
VIPA 260-1AA00	Basic module for CPU line, max. 3 extensions
VIPA 261-1CA00	Interface modul for extension line from 2. to 4.
VIPA 260-1XY05	cable connection 0.5 m
VIPA 260-1XY10	cable connection 1 m
VIPA 260-1XY25	cable connection 2.5 m

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VIPA ControlsAmerica
Phone: +1 (855) one-VIPA
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www.vipausa.com

VIPA
CONTROLS AMERICA

SYSTEM 200V – STEP®7 programmable
Modular PLC-System – I/O-Units, Accessories

Dimensions 1 slot
(H x W x D): 76 x 25,4 x 74mm

Dimensions 2 slots
(H x W x D): 76 x 50,8 x 74mm
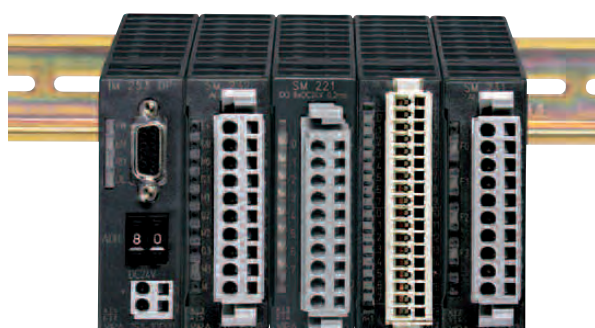
DIGITAL INPUT	
Order No.:	**Technical data**
VIPA 221-1BF00	DI 8x DC 24V
VIPA 221-1BF50	DI 8x DC 24V, NPN
VIPA 221-1BF10	DI 8x DC 24V, 0,2ms
VIPA 221-1BF21	DI 8x, alarm DC 24V, 0,2ms
VIPA 221-1BH10	DI 16x DC 24V
VIPA 221-1BH51	DI 16x DC 24V, NPN
VIPA 221-2BL10	DI 32x DC 24V
VIPA 221-1FD00	DI 4x AC/DC 90...230V, potential decoupled
VIPA 221-1FF20	DI 8x AC/DC 60...230V
VIPA 221-1FF30	DI 8x AC/DC 24...48V
VIPA 221-1FF50	DI 8x AC 180...265V
VIPA 221-1BH20	DI 16x DC 24V, (2x counter)
VIPA 221-1BF30	DI 8x DC 24V, ECO
VIPA 221-1BH30	DI 16x DC 24V, ECO

DIGITAL OUTPUT	
Order No.:	**Technical data**
VIPA 222-1BF00	DO 8x DC 24V, 1A
VIPA 222-1BF10	DO 8x DC 24V, 2A
VIPA 222-1BF20	DO 8x DC 24V, 2A, potential decoupled, (4 groups)
VIPA 222-1BF50	DO 8x DC 24V, 0.5A, NPN
VIPA 222-1BH10	DO 16x DC 24V, 1A
VIPA 222-1BH20	DO 16x DC 24V, 2A
VIPA 222-1BH50	DO 16x DC 24V, 0.5A, NPN
VIPA 222-2BL10	DO 32x DC 24V, 1A
VIPA 222-1HF00	DO 8x relay, 230VAC / 24VDC, 5A
VIPA 222-1HD10	DO 4x relay, galvanic decoupled, 230VAC/30VDC, 5A
VIPA 222-1HD20	DO 4x relay, galvanic decoupled, 230VAC/30VDC, 16A
VIPA 222-1FF00	DO 2x, solid-state, 230VAC/400VDC, 0.5A
VIPA 222-1DB00	DO 2x dimmer f. ohm., ind., cap. load, 230VAC/2A
VIPA 222-1BF30	DO 8x DC 24V, 0.5A, ECO
VIPA 222-1BH30	DO 16x DC 24V, 0.5A, ECO

DIGITAL INPUT AND OUTPUT	
Order No.:	**Technical data**
VIPA 223-1BF00	DI/O 8x DC 24V, 1A, soft-configurable
VIPA 223-2BL10	DI/O 16x DC 24V and DO 16x DC 24V, 1A

ANALOG INPUT AND OUTPUT	PRICE
Order No.: **Technical data**	**in Euro** Analog
VIPA 231-1BD53	input, 2 conductors/4x16Bit, 4 conductors/2x16 bits PT100, PT/Ni1000, NiCrNi, thermocouple, J, K, N, R, S, T±10V, ±400mV, ±20mA, 4-20mA
VIPA 231-1BD60	Analog input, 4x12Bit, 0/4-20mA, potential decoupled channel
VIPA 231-1BD70	Analog input, 4x12Bit, ±10V, potential decoupled channel
VIPA 231-1BF00	Analog input 2conductor/8x16bits, 4conductor/4x16bits PT100, thermocouple J, K, T, 0-60mV
VIPA 231-1FD00	Analog input FAST, 4x16Bit, ±400mV, ±4V, ±10V, ±20mA, 4-20mA, process and diagnosis alarm, average value generation more than the last 2.4, 8 or 16 values Cycle time 1ms for 4 channels
VIPA 232-1BD51	Analog source module, 4outputs 0-10V, ±10V,0-20mA,12bits
VIPA 234-1BD50	Analog input and output 2x12 bits of input, 2x12bits of output, ±10V, 0-10V, 1-5V, ±20mA, 0-20mA, 4-20mA
VIPA 234-1BD60	3x AI 12bits: ±10V/4 V/400mV/20 mA and 4-20mA, 1x AI 12bits: Pt100/1000, Ni100/1000, 600/3000 ohm, 2xAA 12bits: ±10V/20 mA, 1-5V, 0-10V, 0-20mA, 4-20mA, Default value can be activated at PLC stop.
VIPA 231-1BD30	AI 4x12Bit, ±10V, ECO
VIPA 231-1BD40	AI 4x12Bit, 4..20mA, ±20mA, ECO
VIPA 232-1BD30	AO 4x12Bit, 0..10V, ±10V, ECO
VIPA 232-1BD40	AO 4x12Bit, 0/4..20mA, ECO

VIPA ControlsAmerica
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info@vipausa.com
www.vipausa.com

VIPA
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| VIPA 100V

SYSTEM 100V – STEP®7 programmable
Micro PLC-Compact System – CPUs & I/O-Units

CPU HW identification uniformly: 6ES7 315-2AF03-0AB0/V1.2		
MICRO-PLCs Order No.:	**memory/ loading memory**	**Technical Data**
VIPA 112-4BH02	8/16kByte	8(12)DI/8(4)DO, 24VDC/0,5A, not extendable
VIPA 114-6BJ02 VIPA 114-6BJ03 VIPA 114-6BJ04	16/24kByte 24/32kByte 32/40kByte	16(20)DI (4DI with 30 kHz)/8(4)DO 24VDC/0,5A, of it 2DO as an impulse output, extendable
VIPA 114-6BJ52 VIPA 114-6BJ53 VIPA 114-6BJ54	16/24kByte 24/32kByte 32/40kByte	16DI (4DI with 30 kHz)/8DO relay, 230VAC/24VDC/5A, extendable
VIPA 115-6BL02 VIPA 115-6BL03 VIPA 115-6BL04	16/24kByte 24/32kByte 32/40kByte	16(20)DI (4DI with 30 kHz)/16(12)DO 24VDC/0,5A, of it 2DO as an impulse output, extendable
VIPA 115-6BL12 VIPA 115-6BL13 VIPA 115-6BL14	16/24kByte 24/32kByte 32/40kByte	16(20)DI (4DI with 30 kHz)/16(12)DO 24VDC/0,5A of it 2DO as an impulse output, + 1x RS232 interface
VIPA 115-6BL22 VIPA 115-6BL23 VIPA 115-6BL24	16/24kByte 24/32kByte 32/40kByte	16(20)DI (4DI with 30kHz)/16(12)DO 24VDC/0,5A of it 2DO as an impulse output, + 1x DP-Slave
VIPA 115-6BL32 VIPA 115-6BL33 VIPA 115-6BL34	16/24kByte 24/32kByte 32/40kByte	16(20)DI (4DI with 30 kHz)/16(12)DO 24VDC/0,5A of it 2DO as an impulse output, + 1x RS485 interface
VIPA 953-0KX10	512MByte	MMC flash card

Order No.:	CANopen I/O-MODULES Digital Inputs and Transistor Outputs
VIPA 153-4CF00	8DI / A with 2x11 terminals
VIPA 153-4CH00	8DI, 4DI / A, 4DO, 24VDC / 1A
VIPA 153-6CH00	8DI, 4DI / A, 4DO, 24VDC / 1A with 4x11 terminals
VIPA 153-6CL10	24DI, 8DO, 24VDC, 1A

Order No.:	PROFIBUS INPUT MODULES Digital Inputs 24 VDC
VIPA 151-4PH00	16
VIPA 151-6PH00	16 with 4x11 terminals for 3 conductors sensors
VIPA 151-6PL00	32

Order No.:	PROFIBUS OUTPUT MODULES Digital Outputs
VIPA 152-4PH00	16 transistor, 24 VDC, 1,2A
VIPA 152-6PH00	16 transistor, 24 VDC, 1,2A, 4x11 terminals following 3 conductor sensors
VIPA 152-6PL00	32 transistors, 24 VDC, 1,2A

Order No.:	PROFIBUS I/O-MODULES Digital Inputs and Transistor Outputs
VIPA 153-4PF00	8 DI / O with 2x11 terminals
VIPA 153-4PH00	DI 8 x DC 24 VDC DO 8 x DC 24 VDC, 1A
VIPA 153-6PH00	DI 8 x DC 24 VDC DO 8 x DC 24 VDC, 1A 4x11 terminals
VIPA 153-6PL00	16 DI, 16 DO, 24 VDC, 1A
VIPA 153-6PL10	24 DI, 8 DO, 24 VDC, 1A

Order No.:	MICRO PLC EXTENSIONS Inputs and Outputs
VIPA 123-4EH01	8DI / 8DO, 24VDC/0,5A
VIPA 123-4EJ01	16DI / 8DO 24VDC/0,5A
VIPA 123-4EL01	16DI / 16DO 24VDC/0,5A
VIPA 123-4EJ11	16DI / 8DO relay, 230VAC/24VDC/5A
VIPA 123-4EJ20	16DI 60-230VAC / 8DO relay, 230VAC/24VDC/5A
VIPA 134-4EE00	2x12 Bit AI, 2x12 Bit AA/ +/-10V,0-10V, 1-5V,+/-20mA,0-20mA,4-20mA, 1x12 Bit AI PT100/1000, Ni100/1000, default value can be activated.

With the 100V expansion modules the bus connector is included.

Order No.:	SHUNTING FIELD to system 100 V
VIPA 101-4FH50	8 x 11 cage clamp terminals

| Accessories

GENERAL ACCESSORIES
PROFIBUS / PROFINET Connectors & Cables

### Features EasyConn and standard connector:
- Visual connection check (cross wiring, position of shield and cable)
- High sturgeon safety and robustness by solid zinc pressure casting full metal casing
- Cable splicing via comfortable cutting-clamp technology
- Lostsafe one-screw-mounting system
- Integrated terminating resistor
- Integrated PG/diagnosis jack
- 0°, 45°, 90° cable departure
- Additional PG connection with 90° cable departure

Features diagnosis electronic with EasyConn:
- Status display via integrated LEDs for bus-test functions

LED		State	Description
PWR-LED	:	(on)	power supply 4...5,5V for device OK
TXD-LED	:	(blinks)	device activity on bus
Term-LED	:	(off)	terminating resistor deactivated
		(on)	terminating resistor activated
		(blinks)	terminating resistor defective
ERR-LED	:	(off)	bus state OK
		(blinks)	wrong signal level
		(on)	no termination or open
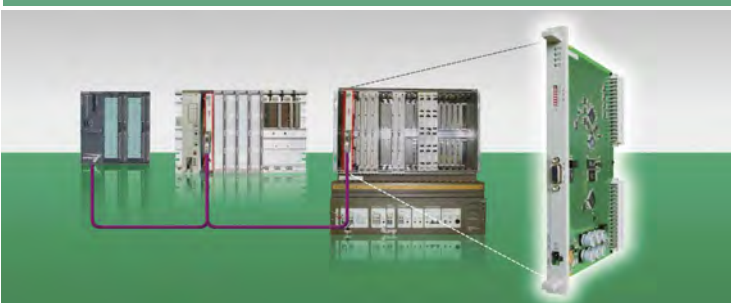
PROFIBUS CONNECTORS Order No.:	Technical data
VIPA 972-0DP01	Standard PROFIBUS connector, 90°, PG jack, cutting-clamp technology
VIPA 972-0DP10	EasyConn PROFIBUS connector, 90°, PG jack, diagnosis electronics, cutting-clamp technology
VIPA 972-0DP20	EasyConn PROFIBUS connector, 45°, PG jack, diagnosis electronics, cutting-clamp technology
VIPA 972-0DP30	EasyConn PROFIBUS connector, 0°, diagnosis electronics, cutting-clamp technology
VIPA 972-9DP01	Standard PROFIBUS connector, 90°, PG jack, cutting-clamp technology, 100 pieces
VIPA 972-9DP10	EasyConn PROFIBUS connector, 90°, PG jack, diagnosis electronics, cutting-clamp technology, 100 pieces
VIPA 972-9DP20	EasyConn PROFIBUS connector, 45°, PG jack, diagnosis electronics, cutting-clamp technology, 100 pieces
VIPA 972-9DP30	EasyConn PROFIBUS connector, 0°, diagnosis electronics, cutting-clamp technology, 100 pieces

PROFIBUS CABLES Order No.:	Length
VIPA 830-0LC00	100m
VIPA 830-0LD00	200m
VIPA 830-0LE00	500m
VIPA 830-0LF00	1.000m

PROFIBUS DISMANTLE TOOL	
905-6AA00	Dismantle Tool (Manufacturer: SIEMENS)

PROFINET CABLES Order No.:	Length
VIPA 830-0PC00	100m
VIPA 830-0PD00	200m
VIPA 830-0PE00	500m
VIPA 830-0PF00	1.000m

PROFINET CONNECTORS Order No.:	Technical data
VIPA 972-0PN00	PROFINET & EtherCAT plug, 180°, RJ45, 8 wire, insulation displacement connection, AWG24/1 - 22/1; AWG26/7 - 22/7, 1 piece
VIPA 972-8PN00	PROFINET & EtherCAT plug, 180°, RJ45, 8 wire, insulation displacement connection, AWG24/1 - 22/1; AWG26/7 - 22/7, 10 pieces

S5®-PROFIBUS SLAVE ADAPTOR Order No.:	Name
VIPA 306-1LE00	IM 306 DP-Slave - 115U ZG/EG IM*, power supply 24VDC incl.
VIPA 306-1UZ00	IM 306 DP-Slave - 135U/155U ZG CPU
VIPA 306-1UE00	IM 306 DP-Slave - 135U/155U ZG/EG IM, power supply 24VDC incl.

* **Adaptation capsules** 6ES5 491-0LB11 for application in AG-115U racks necessary.

GENERAL ACCESSORIES

Siemens S5 to S7 Conversion with VIPA IM306

VIPA's IM306 PROFIBUS Adapters and SPEED7 PLCs give our customers an outstanding conversion alternative.

The upgrade from Siemens STEP5 systems* to VIPA-STEP7 systems mean:

- Programming while machine is running
- Almost no downtime
- No deadline pressure
- 2-phase conversion option
  - Phase 1: Upgrade to latest PLC technology (urgent)
  - Phase 2: Upgrade to latest I/O technology (not urgent)
- Utilize your STEP7 programming knowledge with:
  -SIMATIC Manager, TIA Portal, WinPLC7 or SPEED7 Studio
- Very low cost upgrade
  -Reasonably priced IM306 module

  -Low priced Profibus Master PLCs VIPA SLIO, 200V, or 300S

  -No cost for cabling changes
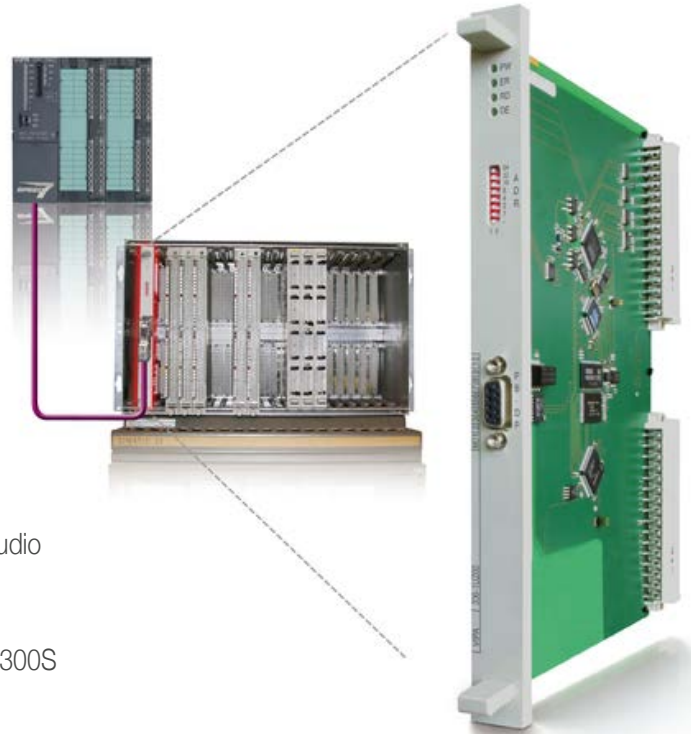
Benefits of VIPAs option

- No need to search for super expensive S5 spare parts
- No need to maintain S5 computers & software
- No more worries about downtime
- Finally being able to make adjustments to the project and machine
- No worries about S5 know-how loss due to retirement

VIPA
CONTROLS AMERICA
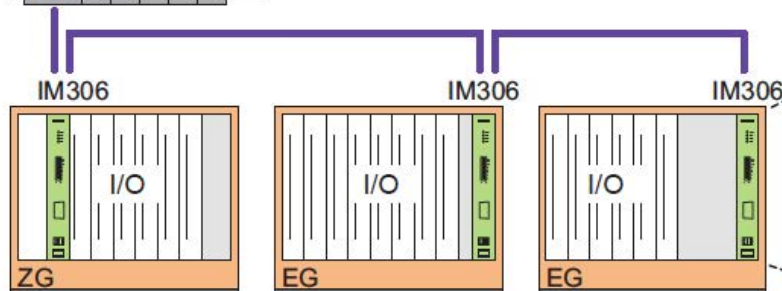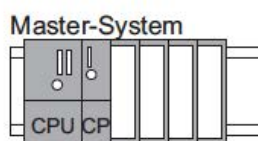
GENERAL ACCESSORIES
## PROFIBUS Repeater, ETHERNET & PROFINET Switches

PROFIBUS DP-REPEATER

The ProfiHub B5 PROFIBUS-DP repeater in a IP20 casing for industrial automation, to implement long multi-device spur lines and backbone structures with star/tree segments for PROFIBUS-DP. It has the functionality of 5 galvanic isolated transparent repeaters. This allows network structures with extended spur lines that can handle a maximum of 31 devices individually and a length equal to the main bus. The ProfiHub B5 refreshes a received message on one channel and transfers it to all the other channels. The advanced 12Mbps core of the repeater B1 is identical to the ProfiHub. It can be cascaded unlimitedly and is equipped with an isolated RS485 interface. The data is constantly monitored for glitches which are digitally filtered out. Every channel has on-board switchable termination and can drive 31 devices.

Order No.:	PROFIBUS REPEATER Technical Data
VIPA 920-1CB50	ProfiHub B5, 5 galvanic isolated channels (repeater segments), 31 devices per channel, transparent for all PROFIBUS DP protocols (DP-V0, DP-V1, DP-V2, FDL, MPI, FMS, PROFI-safe, PROFIdrive a.s.o.), transmission speed 9.6kbps to 12Mbps (including 45.45kbps), PROFIBUS address not required, integrated termination facilities (switches), operating temperature -20 to +75°C, dimensions: 167 x 111 x 32mm, supply: 10-30 VDC, 130mA, isolation class IP 20
VIPA 920-1BB10	PROFIBUS Repeater B1, 1 repeater segment, 31 devices per channel, transparent for all PROFIBUS DP protocols (DP-V0, DP-V1, DP-V2, FDL, MPI, FMS, PROFIsafe, PROFIdrive a.s.o.), transmission speed 9.6kbps to 12Mbps (including 45.45kbps), PROFIBUS address not required, integrated termination facilities (switches), operating temperature -20 to +60°C, dimensions: 106 x 55 x 33mm, supply: 19-28 VDC, 65mA, isolation class IP 20
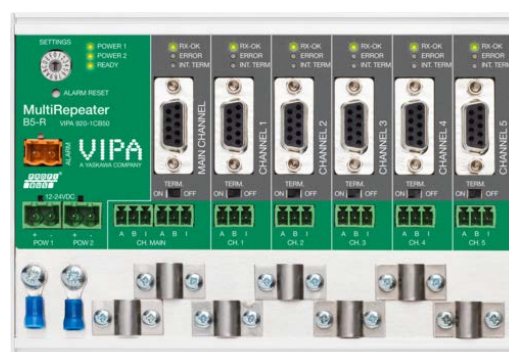
UNMANAGED ETHERNET-SWITCHES

The industrial switches EN5-R (5-Port) and EN8-R are entry-level models which support the IEE 802.3 or 802.3x/u with 10/100M full / half duplex and MDI/MDIX recognition. They are designed for operating temperature ranges of -10° up to 60°C and can also be deployed in rough industrial environments.

Order No.:	ETHERNET SWITCHES Technical Data
VIPA 910-1EN50	Industrial-Switch EN5-R, 5x RJ45 10/100BaseTX full / half Duplex, supports IEEE 802.3 and IEEE 802.3u/x and automatic MDI/MDI-X recognition, redundant power supply for 12-45 VDC, IP30 aluminium housing for DIN rail mounting
VIPA 910-1EN80	Industrial-Switch EN8-R, 8x RJ45 10/100BaseTX full / half Duplex, supports IEEE 802.3 and IEEE 802.3u/x and automatic MDI/MDI-X recognition, redundant power supply for 12-45 VDC, IP30 aluminium housing for DIN rail mountin

MANAGED ETHERNET-SWITCHES

The Ethernet switches PN5-RD (5-Port) and PN8-RD (8-Port) are Managed Ethernet switches with integrated PROFINET functions. This makes it easier to integrate the PN switches into PROFINET oriented engineering systems and also support a variety of useful management functions such as IGMP Snooping, IEE802.1Q VLAN, Qos, Port mirroring, SNMP, bandwidth management and warning by e-mail or relay output.

Order No.:	PROFINET SWITCHES Technical Data
VIPA 911-2PN50	Industrial-Switch PN5-RD, PROFINET v2 Conformance Class B, Profinet diagnosis via GSD integration, Management functions such as IGMP Snooping, IEEE 802.1Q VLAN, QoS, RMON, SNMP, Port mirroring, PROFINET I/O parameters, I/O cyclic data, DCP, DHCP, Turbo Ring and Turbo Chain (recovery time < 20 ms)
VIPA 911-2PN80	Industrial-Switch PN8-RD, PROFINET v2 Conformance Class B, Profinet diagnosis via GSD integration, Management functions such as IGMP Snooping, IEEE 802.1Q VLAN, QoS, RMON, SNMP, Port mirroring, PROFINET I/O parameters, I/O cyclic data, DCP, DHCP, Turbo Ring and Turbo Chain (recovery time < 20 ms)

VIPA
CONTROLS AMERICA

Remote Access

REMOTE ACCESS
Industrial LAN/Modem-Router

As demonstrated by numerous studies, up to 70% of the maintenance costs can be saved by preventative maintenance. A useful tool for this is the teleservice that enables a continuous monitoring and maintenance of the systems. For this reason, with the VIPA teleservice modules we offer a modern and intelligent kind of tele-service for the different types of transmission. Whether on the conventional way via analog or ISDN line or via broadband connections as ADSL and HSUPA (mobile communications), VIPA offers the complete product range on teleservice modules too. The communication to your automatization modules is established by MPI or PROFIBUS or via the Ethernet interface, which belongs to each of our devices as standard. The configuration of the VIPA teleservice modules is performed via a web browser. Additional software is not required.

In addition to the robust hardware, which shines with the usual VIPA interface variety, VIPA also offers a free service called Talk2M. Via this service you are able to establish a safe connection to your construction within seconds, regardless of whether they are communicating via mobile phone or a landline.

Teleservice of controllers, HMIs, frequency converters, roboters, IPCs etc. are not an impossible challenge for us. With the VIPA Teleservice modules, you have a perfectly balanced combination of hardware and software.

VIPA 900-2C510

VIPA 900-2C520

VIPA 900-2C580

Order No.:	REMOTE ACCESS MODULES Technical data
VIPA 900-2C510	TM-C VPN Router WAN/LAN 4x RJ45 LAN 100 Mbit/s (configurable LAN/WAN), 2x digital input for internet release, 1x digital output for display Talk2M, integrated web interface for configuration, OpenVPN for save internet connection with Talk2M high level protection through access control
VIPA 900-2C520	TM-C VPN Router WIFI/WAN/LAN, WIFI interface for connection to a WIFI network, 4x RJ45 LAN 100 Mbit/s (configurable LAN/WAN) 2x digital input for internet release, 1x digital output for display Talk2M integrated web interface for configuration OpenVPN for save internet connection with Talk2M high level protection through access control
VIPA 900-2C580	TM-C VPN Router 3G+/WAN/LAN, 3G+ modem for external broadband communication 4x RJ45 LAN 100 Mbit/s (configurable LAN/WAN), 2x digital input for internet release, 1x digital output for display Talk2M, integrated web interface for configuration, OpenVPN for save internet connection with Talk2M, high level protection through access control
OPTIONS	
VIPA 900-0AQ51	TM antenna GSM/GPRS

Talk2M is an internet service portal, specially designed for the growing demands for secure broadband and mobile access to machinery and equipment.

VIPA ControlsAmerica
Phone: +1 (855) one-VIPA
info@vipausa.com
www.vipausa.com

VIPA
CONTROLS AMERICA

| Safety

SAFETY WITH SAMOS PRO
Modular and powerful safety solutions

STRUCTURE AND CONCEPT

samosPRO is a fast, compact, modular safety controller for monitoring and controlling mechanical and system engineering applications.

The system enables complete and economic safety solutions that are more flexible than conventional relay technology.

The graphic device configuration and a function chart editor with extensive certified function block library ensure convenient and clear programming.

The modular design also allows expansion at a later stage and therefore flexible planning with fewer module variations. Up to 12 input and output expansion modules each with a width of 22.5mm can be connected to a controller module. In this way 8 to 96 safe inputs and 4 to 48 safe outputs can be implemented.

The safety control system samosPRO is certified in accordance with EN 61508 to SIL 3, EN 62061 to SIL CL 3 and in accordance with EN ISO 13849-1:2006 Configuration and Performance Level e/category 4. This covers the requirements of mechanical and system engineering applications.

It is mounted on a 35mm profile rail.

Name / Order No.: SP-	SAFETY COMPACT MODULES Description
COP1-A / R119011100	samosPRO compact module, 20 safe DI, 4 safe DO, USB interface, screw clamp terminal pluggable
SP-COP1-C / R119011200	samosPRO compact module, 20 safe DI, 4 safe DO, USB interface, spring clamp terminal pluggable
SP-COP2-EN-A / R119012100	samosPRO compact module, 16 safe DI, 4 safe DO, 4 configurable safe I/Os, USB + Ethernet interface, screw clamp terminal pluggable
SP-COP2-EN-C / R119012200	samosPRO compact module, 16 safe DI, 4 safe DO, 4 configurable safe I/Os, USB + Ethernet interface, spring clamp terminal pluggable
SP-COP2-ENI-A / R119013100	samosPRO compact module, 16 safe DI, 4 safe DO, 4 configurable safe I/Os, USB interface, Industrial Ethernet, screw clamp terminal pluggable
SP-COP2-ENI-C / R119013200	samosPRO compact module, 16 safe DI, 4 safe DO, 4 configurable safe I/Os, USB interface, Industrial Ethernet, spring clamp terminal pluggable
SAFETY ELECTRONIC MODULES	
SP-SDIO84-P1-K-A / R119000300	samosPRO, IO-module with 8 input/4 solid state output, screw clamp terminal pluggable
SP-SDIO84-P1-K-C / R119000400	samosPRO, IO-module with 8 input/4 solid state output, spring clamp terminal pluggable
SP-SDI8-P1-K-A / R119000500	samosPRO, IN-module (8 DI), screw clamp terminal pluggable
SP-SDI8-P1-K-C / R119000600	samosPRO, IN-module (8 DI), spring clamp terminal pluggable
SAFETY RELAYS	
SNE 4024K-A / R118839300	Output expansion unit, 2x2 enabling current paths, 2x1 signaling outputs, DC 24 V, screw-terminals pluggable
SNE 4024K-C / R118839400	Output expansion unit, 2x2 enabling current paths, 2x1 signaling outputs, DC 24 V, spring clamp terminal pluggable
SAFETY ELECTRONIC MODULES	
SP-CANopen / R119002100	samosPRO Gateway for CANopen
SP-PROFIBUS-DP / R119001900	samosPRO Gateway for PROFIBUS DP
SAFETY ACCESSORIES	
SP-CABLE1 / R119000900	samosPRO, cable, 2m, M8-DSUB
SP-CONVERTER / R119002500	USB-RS232-Adapter
SP-FILTER1 / R119002600	samosPRO-Output-Filter, 680nF
SP-FILTER2 / R119002700	samosPRO-Output-Filter, 2,2uF
SP-COP-CARD / R119010000	samosPRO-Memory card for SP-COP

HIGHLIGHTS:

- samos PRO COMPACT – the safety control of the next generation – is a compact and fast modular safety miro-controller for the monitoring and controlling of mechanical and system engineering applications
- Integrated „know-how protection"
- Programmable with the NEW modern programming tool samosPLAN5+ incl. process simulation and logic analyzer
- The system enables the implementation of complete and economic safety solutions which are more flexible than conventional relay technology
- Easy to use with graphical device configuration and a functional diagram editor with extensive certified function block library
- Very convenient (diagnosis, simulation, start up mode)
- High safety combined with convincing cost efficiency
- The modular design also enables expansion at a later stage and therefore flexible planning with a reduced variety of module versions. Easier handling and logistics.

TECHNICAL FEATURES:

- Certified in accordance with PLe/Kat.4 (ISO 13849-1) and SIL3 (IEC 62061)
- 16 safety inputs, 4 safety outputs and 4 switchable safety in-/outputs on a mounting width of 45mm, expandable up to 116 safety inputs and up to 56 safety outputs
- Compact safety solutions from a mounting width of 45 mm
- Minimum reaction time of 12ms
- Connection to a standard VIPA controller via fieldbus gateways (PROFIBUS, PROFINET and CANopen, MODBUS/TCP and ETHERNET/IP)
- The use of Ethernet gateways allows online access including programming and remote maintenance
- 4A wear and tear-free on each single output of the system
- 512MB changable and easily usable program memory SP-COP-CARD in SD card format
- Environmental temperature range of -25 °C up to +65 °C

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| VIPA HMI

OPERATOR SYSTEMS
TD/OP-Textpanels

VIPA TEXT DISPLAY

The TD03 is a small, compact text display for showing messages about current working conditions, for changing process parametres and setting flags with the built-in buttons. An S7®-MPI port can be used to connect it to all Siemens


VIPA OPERATOR PANEL

The operator panel OP03 can be programmed by ProTool SW or OP Manager. It serves for the comfortable display and update of process values and the output of messages. An S7®-MPI port can be used to connect it to all Siemens S7-300/400® PLCs and VIPA series 100/200/300V PLC´s.

VIPA COMMANDER COMPACT

VIPA CommanderCompact CC03 is an operator control panel with a text display with 2x20 marks and an integrated PLC CPU, programmable with WinPLC7 by VIPA or with STEP®7 by Siemens. The CPU of the CC03 disposes more than 16 KB of program memory and 24 KB of loading memory.
In addition, 16 digital inputs and outputs are on board.
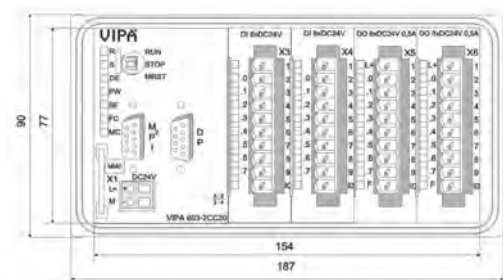
S7-300/400® PLCs and VIPA series 100/200/300V PLC´s. The configuration is done with the VIPA TD-Wizard. The generated parameters and data blocks are directly loaded in the PLC. The TD itself contains no project data.

VIPA 603-1TD00

TD03-text display , 2x20 sign, LCD, 4 F-buttons + Shift, Up/Down Arrow keys, ESC, ENTER, text memory in PLC (data block), Project development by TD-Wizard.
Interface: MPI.
Suitable for VIPA 100/200/300V and Siemens S7-300 / 400.
Dimensions: 172 x 88 x 32mm, cut-out: 154 x 78mm, Weight: 750g, mounting: in the device integrated, captive rocker arms.
Supply: 18-32VDC/120 mA. Including MPI connection cable to the PLC VIPA 950-0KB50, Length 2.5 m with PG and diagnosis jack.

Up to 7 OPs are connectable at the same time to a PLC. As a specific feature the STEP®7 functions StatVAR and SteuVAR are implemented. For project transmission, the VIPA Greencable 950-0KB00 is used.

VIPA 603-1OP00

TD03-text display OP03, 2x20 chars, LCD, 4 F-buttons, Numeric Block, ±, arrow keys, ESC, ENTER. Project memory: 256kByte project programming via ProTool by Siemens, interface: MPI
Suitable for VIPA 100/200/300V, Siemens S7-300/400.
Dimensions: 172 x 88 x 32mm, cut-out: 154 x 78mm, Weight: 750g, mounting: in the device integrated, captive rocker arms.
Supply: 18-32VDC/120 mA.
Including MPI connection cable to the PLC VIPA 950-0KB50, Length 2.5 m with PG and diagnosis jack.

The CC03 can be extended with up to four 100V/200V modules. The programming can be done via Green Cable from VIPA or via standard MPI communication with MPI interface. The alignment on high accessibility, functionality and easy project development allows the various applications with the CC03.

VIPA 603-1CC21

OP03-text display OP03, 2x20 chars, LCD, 4 F-buttons, Numeric block, ±, arrow keys, ESC, ENTER. Project memory: 128kByte project programming via ProTool by Siemens, interface: MPI.
With integrated STEP®7/S7-300 CPU, 16 KB RAM / 24 KB loading memory, 16 digital inputs/16 digital outputs (24VDC/1A).
Dimensions: 172 x 88 x 32mm, cut-out: 154 x 78mm. Weight: 750g, mounting: in the device integrated, captive rocker arms.
Supply: 18-32VDC/120 mA.
Including MPI connection cable to the PLC VIPA 950-0KB50, Length 2.5 m with PG and diagnosis jack..

VIPA 603-2CC21

... in addition, with DP-Slave connection.

VIPA 660-0KB00

Peripheral-extension cable CC03 for up to 4 expansion modules EM123 or system 200V. Length: 0.5 m.

PROJECT DEVELOPMENT

The project development for the TD03 is done with TD-Wizard, that generates one DB, which holds the suitable data after the registration of the TD03 through an SFC.

PROJECT DEVELOPMENT

The project development of the OP03 can be done with the OP manager of VIPA. Here, even complicated navigations can be realized. The OPManager has an integrated emulator which helps you to check all functions without additional HW on an emulated panel. The transfer of the project can be done with MPI. It is also possible to use Protool by Siemens.

VIPA SW300 O1LA OP-MANAGER

Programming-Tool for OP03

DIMENSIONS TD03/OP03
Cut-out: 156 x 78mm
Outside: 173 x 88mm
Deepness: 32mm

VIPA 950-0KB00

VIPA "Green Cable" programming cable for TD/OP03 and PG/AG download cable for VIPA 100/200/300V.

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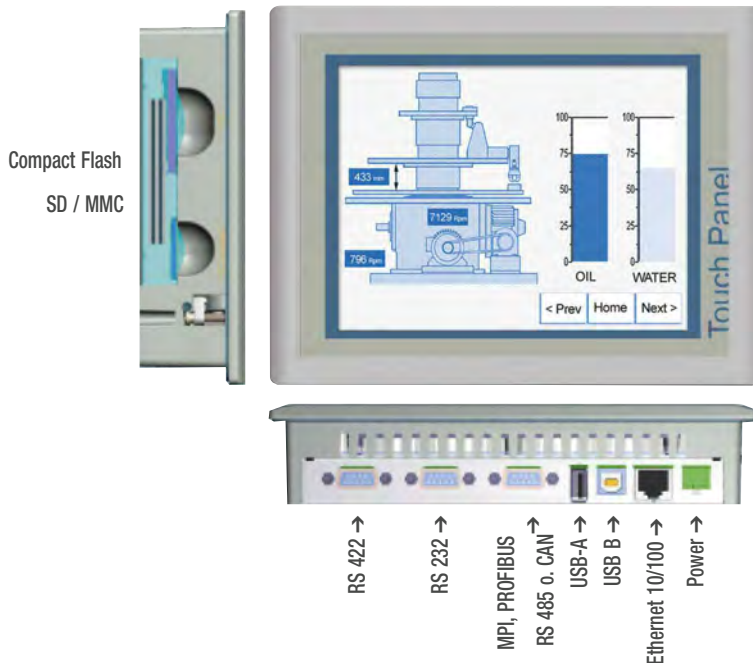
OPERATOR SYSTEMS
Touch Panels – Professional Panels

Extremely powerful Touch Panels offer unique features and a very high scalability. Additionally you have the choice whether you want a panel with or without runtime.

The VIPA Touch Panel family is suited for all applications in the factory, processes and building automation. The VIPA Touch Panels are particularly mechanically robust due to the aluminum die-cast housing. With the front-side IP65 protection, these devices also survive in harsh industrial environments.

The portfolio ranges from 5.7" TFT up to 12.1" TFT color display, and the panels can be opened either horizontally or vertically. This compact design and functionality allows VIPA Touch Panels to be used in confined spaces.

- Particularly small mounting depth of only 37 to 45mm
- Horizontally and vertically deployable
- Operating- and configuration-friendly
- Extremely robust aluminium housing
- Easy mounting through patented mounting bracket
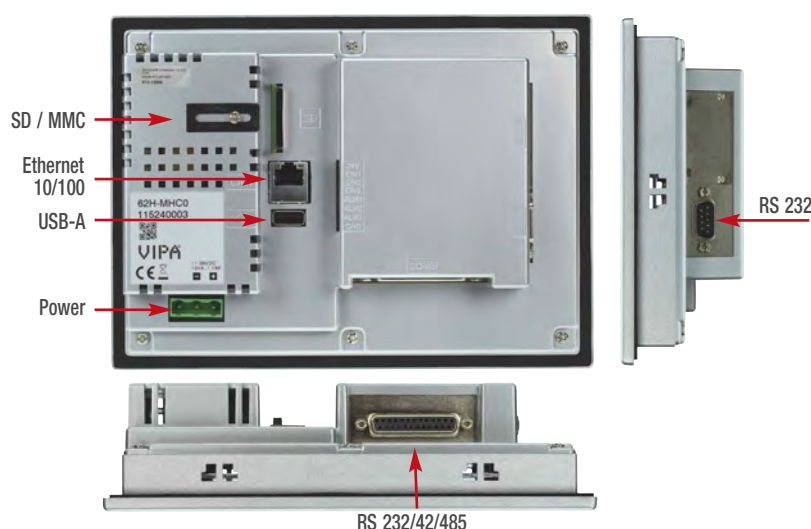- Powerful XScale processor with 800 MHz

Compact Flash
SD / MMC

RS 422 → | RS 232 → | MPI, PROFIBUS → | RS 485 o. CAN → | USB-A → | USB B → | Ethernet 10/100 → | Power →

	TP 605C	TP 606C	TP 608C	TP 610C	TP 612C
Display size	5,7	6,5	8,4	10,4	12,1
Resolution	640x480	640x480	800x600	800x600	800x600
Touch screen	resistive	resistive	resistive	resistive	resistive
Processor	XScale 800MHz	XScale 800MHz	XScale 800MHz	XScale 800MHz	XScale 800MHz
Interfaces	1x RS232 1x RS422/485 1x USB-A 1x USB-B 1x Ethernet 1x MPI/PROFIBUS-DP	1x RS232 1x RS422/485 1x USB-A 1x USB-B 1x Ethernet 1x MPI/PROFIBUS-DP	1x RS232 1x RS422/485 1x USB-A 1x USB-B 2x Ethernet (Switch) 1x MPI/PROFIBUS-DP	1x RS232 1x RS422/485 2x USB-A 1x USB-B 2x Ethernet (Switch) 1x MPI/PROFIBUS-DP	1x RS232 1x RS422/485 2x USB-A 1x USB-B 2x Ethernet (Switch) 1x MPI/PROFIBUS-DP
Work memory	128 MB	128 MB	128 MB	128 MB	128 MB
User memory	4096 MB	4096 MB	4096 MB	4096 MB	4096 MB
Cardslot for	CF+SD/MMC	CF+SD/MMC	CF+SD/MMC	CF+SD/MMC	CF+SD/MMC
Housing	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium
Dimensions WxHxD	212 x 156 x 44,5mm	212 x 156 x 44,5mm	264 x 189 x 50,5mm	304 x 233 x 52,5mm	325 x 263 x 52,5mm
Integrated cut-out	200 x 144mm	200 x 144mm	250 x 175mm	287 x 217mm	311 x 249mm
Operating System	Windows Embedded CE 6.0 Prof.	Windows Embedded CE 6.0 Prof.	Windows Embedded CE 6.0 Prof.	Windows Embedded CE 6.0 Prof.	Windows Embedded CE 6.0 Prof.
Runtime	Movicon 11CE Standard	Movicon 11CE Standard	Movicon 11CE Standard	Movicon 11CE Standard	Movicon 11CE Standard

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VIPA CONTROLS AMERICA

OPERATOR SYSTEMS

Touch Panels – ECO Panels

ECO Panels – the solid Touch Panels, are not afraid of any common type of operation. The Movicon Runtime is already preinstalled for you. So you are ready to go. The ecoPanel series are not only distinguished by uncompromising reliability and performance, but impressive by an unsurpassed price-performance ratio. Of course, we also paid attention to durability and quality of the products. This is achieved amongst others by a special construction, which enables a fanless and disc free operation.

- Five interfaces: see Table
- Mounting depth 50 up to 60 mm
- Industrial-grade and robust housing
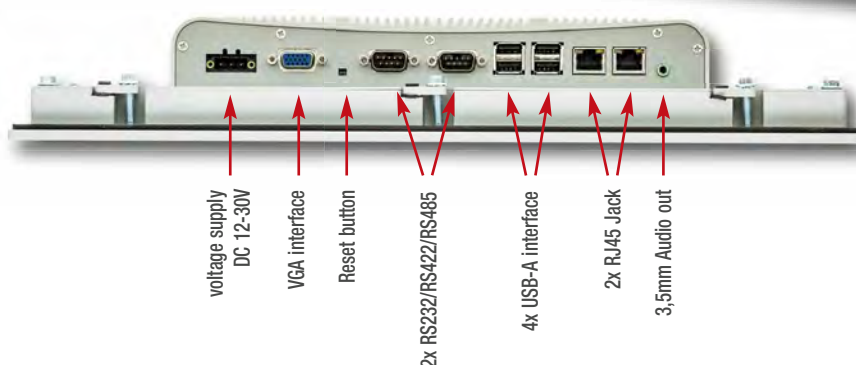- Multilingual language support
- Available for remote access

SD / MMC
Ethernet 10/100
USB-A
Power

RS 232

RS 232/42/485

Touch Panel

ECO	TP 604LC	TP 607LC	TP 610LC	TP 615LC
Display size	4,3	7	10	15
Resolution	480x272	800x480	1024x768	1024x768
Touch screen	resistive	resistive	resistive	resistive
Processor	ARM11 CPU 533MHz	ARM11 CPU 533MHz	Cortex-A8 CPU 1000MHz	Cortex-A8 CPU 1000MHz
Interfaces	1x RS232 1x RS232/422/485 1x USB-A 1x Ethernet 1x MPI/PROFIBUS-DP (option)	1x RS232 1x RS232/422/485 1x USB-A 1x Ethernet 1x MPI/PROFIBUS-DP (option)	1x RS232 (SUB-D) 1x RS232/422/485 (DB25) 1x USB-A 2x Ethernet 1x MPI/PROFIBUS-DP (option)	1x RS232 (SUB-D) 1x RS232/422/485 (DB25) 2x USB-A 2x Ethernet 1x MPI/PROFIBUS-DP (option)
Work memory	128 MB	128 MB	256 MB	256 MB
User memory	128 MB	128 MB	128 MB	128 MB
Cardslot for	SD	SD	SD	SD
Housing	plastic	plastic	aluminium / steel	aluminium / steel
Dimensions WxHxD	140 x 116 x 57mm	212 x 156 x 57mm	325 x 263 x 56mm	400 x 310 x 56mm
Integrated cut-out	123 x 99mm	198 x 142mm	311 x 249mm	368 x 290mm
Operating System	Windows Embedded CE 6.0 Core	Windows Embedded CE 6.0 Core	Windows Embedded CE 6.0 Core	Windows Embedded CE 6.0 Core
Runtime	Movicon 11 CE Standard	Movicon 11 CE Standard	Movicon 11 CE Standard	Movicon 11 CE Standard
eco+	TP 604LC+	TP 607LC+	TP 610LC+	TP 615LC+
Processor	Cortex-A8 CPU 667MHz	Cortex-A8 CPU 667MHz	Cortex-A8 CPU 1000MHz	Cortex-A8 CPU 1000MHz
Work memory	256 MB	256 MB	256 MB	256 MB
Operating System	Windows Embedded CE 6.0 Core	Windows Embedded CE 6.0 Core	Windows Embedded CE 6.0 Core	Windows Embedded CE 6.0 Core
Runtime	Movicon 11 CE Standard	Movicon 11 CE Standard	Movicon 11 CE Standard	Movicon 11 CE Standard

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OPERATOR SYSTEMS
Multitouch Panels – Multitouch Panel PC

Panel PCs – Intelligent control and monitoring –
with PC performance in the control cabinet.
The combination of an industrial PC with state of the art perfor-
mance features and a Touch Panel with ideal display capabilities,
enables the user to concentrate high performance into the smallest
space. The latest Intel Atom processor technology, large integrated
work memory, and display resolutions of up to Full HD with the
21.5" panel PC are state of the art.
The panels also have numerous useful interfaces just like other
VIPA Touch Panels. The pre-installed operating systems Windows
Embedded Compact 7 or Windows Embedded Standard 7 are state
of the art in the PC world.

- Latest Intel Atom process technology
- High display resolution with up to Full HD with 21.5" Panel
- Numerous interfaces for adequate PC operation
- Runtime Movicon 11 Win Standard optionally preinstalled
- Optional customer programs also usable
- Cooling without a fan
- High-quality metal case

Interface labels: voltage supply DC 12-30V · VGA interface · Reset button · 2x RS232/RS422/RS485 · 4x USB-A interface · 2x RJ45 Jack · 3,5mm Audio out

Multi Touch	PPC010	PPC015	PPC021
Display size	10,1" (16:10)	15,6" wide (16:9)	21,5" wide (16:9)
Display resolution	1280 x 800	1366 x 768	1920 x 1080
Touch Screen	PCAP	PCAP	PCAP
Processor	Intel Atom D2550 dualcore @1,86 GHz	Intel Atom D2550 dualcore @1,86 GHz	Intel Atom D2550 dualcore @1,86 GHz
Interfaces	2x Ethernet (10/100/1000) 4x USB2.0 2x serial (RS232, RS422/RS485) Audio out	2x Ethernet (10/100/1000) 4x USB2.0 2x serial (RS232, RS422/RS485) Audio out	2x Ethernet (10/100/1000) 4x USB2.0 2x serial (RS232, RS422/RS485) 1x MPI/PROFIBUS-DP (option)
Work Memory	2 GB	2 GB	2 GB
User Memory	2 GB with WEC7/16 GB with WES7	2 GB with WEC7/16 GB with WES7	2 GB with WEC7/16 GB with WES7
Card slot	CFast	CFast	CFast
Casing	aluminium / steel	aluminium / steel	aluminium / steel
Dimensions backside WxHxD	292 x 207 x 54,2mm	417,8 x 312,8 x 63,8mm	562,4 x 382,4 x 60,9mm
Integrated cut-out	297 x 212mm	401 x 296mm	547 x 367mm
Operating System	Windows Embedded Compact 7 or Windows Embedded Standard 7	Windows Embedded Compact 7 or Windows Embedded Standard 7	Windows Embedded Compact 7 or Windows Embedded Standard 7
Runtime	Movicon 11 CE Standard or Movicon11 Win Standard (32 IO-Bytes)	Movicon 11 CE Standard or Movicon11 Win Standard (32 IO-Bytes)	Movicon 11 CE Standard or Movicon11 Win Standard (32 IO-Bytes)
Ambient temperature	0°C bis 50°C	0°C bis 50°C	0°C bis 50°C

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VIPA CONTROLS AMERICA

OPERATOR SYSTEMS

Touch Panel Computer – Professional Panels, eco-Panels and Multitouch Panel PC

Order No.:	PROFESSIONAL PANELS Technical data
62F-FEE0-CX	5,7", TFT, 320 x 240 pix, housing: Die-cast aluminium Dimensions: 212 x 156 x 44,5mm, Cut-out: 200 x 144mm
62G-FEE0-CX	6,5", TFT, 640 x 480 pix, housing: Die-cast aluminium Dimensions: 212 x 156 x 44,5mm, Cut-out: 200 x 144mm
62I-IEE0-CX	8,4", TFT, 800 x 600 pix, housing: Die-cast aluminium Dimensions: 264 x 189 x 50,5mm, Cut-out: 250 x 175mm
62K-JEE0-CX	10,4", TFT, 800 x 600 pix, housing: Die-cast aluminium Dimensions: 304 x 233 x 52,5mm, Cut-out: 287 x 217mm
62M-JEE0-CX	12,1", TFT, 800 x 600 pix, housing: Die-cast aluminium Dimensions: 325 x 263 x 52,5mm, Cut-out: 311 x 249mm

Order No.:	OPTIONS
VIPA ZRT6-TP	Extra charge for Zenon runtime, Vers. 6.51 256 Tags
574-2AH00	Compact Flash (CF-Card) 1 GB
574-2AI00	Compact Flash (CF-Card) 2 GB
953-1SI00	Secure Disc (SD-Card) 2 GB

Order No.:	ECO PANELS Technical data
62E-MGC0-CB	4,3", TFT, 480 x 272 pix, housing: plastic Dimensions: 140 x 116 x 57mm, Cut-out: 123 x 99mm
62H-MGC0-CB	7", TFT, 800 x 480 pix, housing: plastic Dimensions: 212 x 156 x 57mm, Cut-out: 198 x 142mm
62K-NHC0-CB	10", TFT, 1024 x 768 pix, housing: aluminium/steel Dimensions: 325 x 263 x 56mm, Cut-out: 311 x 249mm
62P-NHC0-CB	15", TFT, 1024 x 768 pix, housing: aluminium/steel Dimensions: 400 x 310 x 56mm, Cut-out: 368 x 290mm

Order No.:	OPTIONS
961-0MP0	MPI/PROFIBUS-DP-interface optional
953-1SI00	Secure Disc (SD-Card) 2 GB

Order No.:	PANEL PCS Technical data
67K-PNL0-JX	10,1", 1280 x 800 pix, housing: aluminium/steel Dimensions: 292 x 207 x 54,2mm, Cut-out: 297 x 212mm
67P-PNL0-JX	15,6", 1366 x 768 pix, housing: aluminium/steel Dimensions: 417,8 x 312,8 x 63,8mm, Cut-out: 401 x 296mm
67S-PNL0-JX	21,5", 1920 x 1080 pix, housing: aluminium/steel Dimensions: 562,4 x 382,4 x 60,9mm, Cut-out: 547 x 367mm

Order No.:	OPTIONS

**VIPA**
CONTROLS AMERICA

MOVICON

Movicon

With more than 80,000 installed applications worldwide Movicon is one of the market leaders in the field of operating and monitoring. A platform for development for all VIPA Panels whether large or small. Movicon is the key to easy use.

Movicon is the safe and reliable software solution for all those who develop and operate visualization applications and whose data also has to be available for mobile technologies. With the innovative and exclusive „XMLInside" technology the Movicon platform offers a unique development environment for HMI, SCADA, SoftLogic and data analysis.

The times for development become shorter, the solutions for the users become ergonomic, open, flexible, and easy to maintain. Movicon excels all other SCADA/HMI platforms with regard to openness, user friendliness, and performance. The unique Movicon software is completely XML based. Moreover, it relies on open and new upcoming technologies such as web service, SVG, OPC, SQL, ODBC, .NET and Java for Web-Client

solutions. Movicon is the standard for industrial automation, remote maintenance, supply industry and building automation. This universal platform is suitable for every field of application and completely hardware independent. It allows the development of operator stations of large scale systems with redundant client / server architecture. At the same time, it establishes applications and surfaces for WinCE supported mobile devices that communicate with PLC, networks, industrial or private field busses. The success of your project depends on how open and independent your applications are, and the amount of time and resources you can save on development.
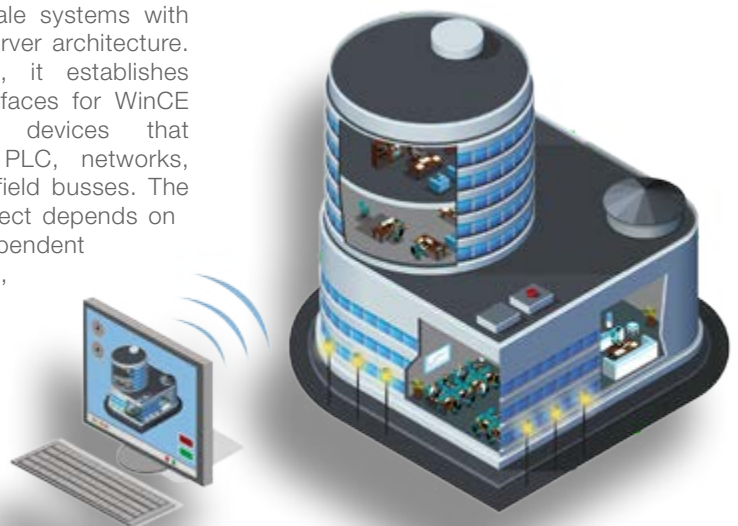
Completely creatable graphic library

Easy, but effective instruction functions and graphic animations. 16 animation features for objects, among them motion, transparency functions, colors, color fillings, text editing etc.

Surface based on SVG graphics

Automatic adjustment of the graphics to display resolution with efficient rendering also for the bitmap image files.

Editable vector graphics

with powerful design and layout functions in 32 levels. The objects have an effective inheritance concept and support an Alias Parameter Management.

Process data storing in data loggers

with object-based management. Automatic ODBC connection for archives in relational data bases. In-memory data base support for the alternative recording in encodable text and XML files.

Automatic recipe control

on the basis of relational data bases or text files. Self-configurable recipes. Archiving in data bases and creation of the graphic user surface with only a few clicks.

Extremely efficient connectivity via the integrated I/O driver

Integrated specifications: OPC DA and OPC XML-DA, as well as clientals also server-sides. Certificated OPC compatibility. Real-time data-separable, also via shared data base charts or via an I/O driver in the Shared Memory.

Data import from the PLC

All important drivers support the automatic tag import from the PLC program. Tag import from every system (e.g. MS Excel).

Features	Movicon 11 CE Basic	Movicon 11 CE Standard	Movicon 11 WIN Standard
available for	eco Panels	eco+ Panels, professional Panels, Panel PC with WEC7	Panel PC with WES7
I/O Bytes	512	4096	Default: 32 Option: 128, 512, 2048
Screens	•	•	•
Graphics Library	•	•	•
Power templates	-	•	•
Alarms	max. 1024	max. 4096	max. 2048
Accelerators and Menus	•	•	•
Touch Screen	•	•	•
Event Historical Log	TXT & XML only	•	•
Dynamic language change	•	•	•
IL Logic (SoftLogik)	•	•	•
VBA Multi-threading	max. 2 sources	•	•
ActiveX- OCX	-	•	•
Debugger OnLine/Remote	•	•	•
Dynamics trends	•	•	•
Historical trends	TXT & XML only	•	•
Recipes	•	•	•
Data Logger	max. 2 on IMDB	•	•
Reports	-	only Text Reports	Embedded Reports
Network operation	•	•	•
Multi-driver capable	max. 2	max. 2	max. 2
SMS/E-Mail	-	•	•
OPC DA Client	•	•	•
OPC XML DA Client	-	•	•
VBA Drivers interface	-	•	-
Web Client	-	2 Users	Option

• = unlimited / depends on the projekt

Touch Panel

From the VIPA ecoPanels up to the high performance VIPA Multi Touch PCs, VIPA has the complete range of HMIs.

The new intelligence of the hardware configuration, the intuitive user interface and the system openness make SPEED7 Studio the powerful and easy-to-use tool.

With the VIPA Teleservice-Modules you have a safe and fail-proof solution to service equipment.

Vipa Controls increases the productivity of your plants and machinery.

samosPRO is a fast, compact, modular safety controller for monitoring and controlling mechanical and system engineering applications.

The SLIO bus terminals are boundless usable with all other CPU-manufacturers.

DRIVES **MOTION** **ROBOTS**

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VIPA
CONTROLS AMERICA

Food & Beverage

Automotive

Building Technology

Handling Technology

Renewable Energy

Water Sewage

Environment

Packaging

VIPA
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Value Statement

At VIPA ControlsAmerica we deliver the best total automation solution. We solve our customers' problems by providing exceptional levels of personalized service and support. Control systems from VIPA of Germany enable our customers to build better machines, cost-effectively, to increase efficiency and output. - Innovative Automation Technology -

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