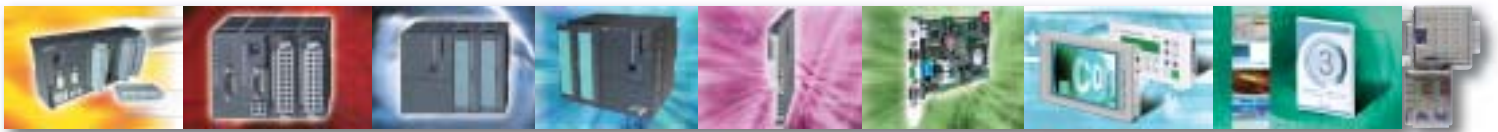




System 100V  
System 200V  
System 300V  
System 300S  
System 500S  
Operator Panels  
Software  
Accessories



# System Summary

April 2008

[www.vipa.de](http://www.vipa.de)

[www.vipa.de](http://www.vipa.de)





# VIPA FACTS & MORE

## VIPA company history

VIPA GmbH was founded in 1985 in Erlangen by Mr. Wolfgang Seel as a system house for automation engineering. After production of the first PC-based machine operating panel there were further developments of control and communication modules. The first customers were from the automotive and food industry, conveying engineering and machine and plant construction. VIPA has been increasingly active in the European market since 1995.

The introduction of the modular automation system 200V was the basis for creating more powerful, faster and more reliable systems. In the year 2000 the new 2000sq.m headquarter in Herzogenaurach, west of Erlangen was opened.

The development of the SPEED7 High-Speed PLC in 2003 was a further technological milestone in the automation equipment range. In 2005, VIPA has extended the product range with the Touch Panel family.

More than 100 highly qualified employees are working for VIPA in Germany. In addition to that there are 62 VIPA branch offices and service partners in 58 countries.



**Wolfgang Seel**  
President

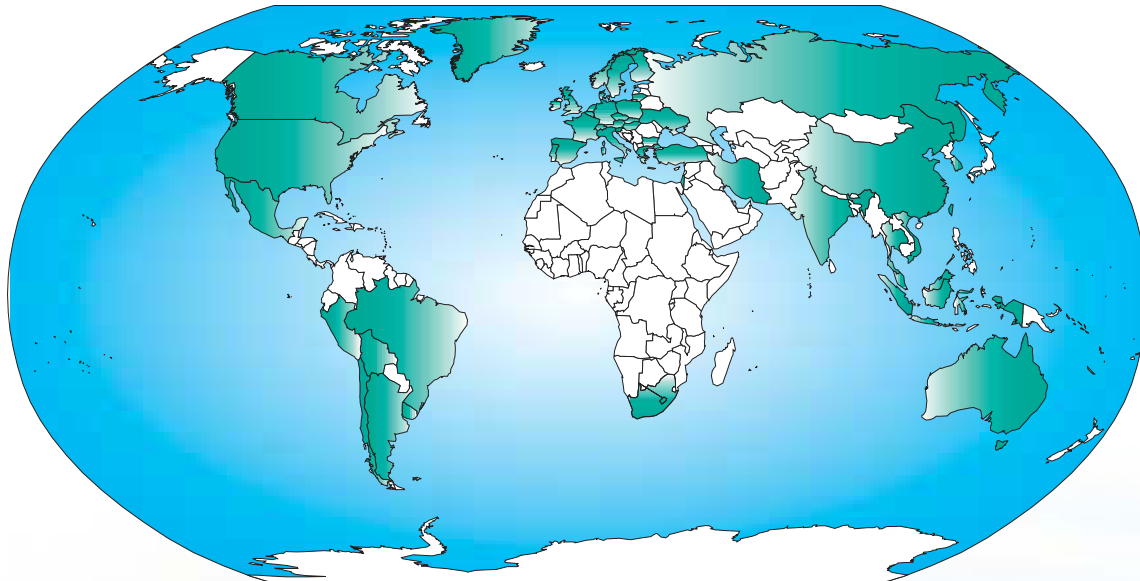


- 1985 - Foundation of VIPA GmbH by Mr. Wolfgang Seel
- 1988 - First Inrack-PC for the SIMATIC from Siemens in the world
- 1990 - Focusing on hardware components
- 1995 - First TCP/IP processors for the SIMATIC from Siemens in the world

- 1996 - Introduction of the first own PLC system - System 200V
- 1997 - Foundation of ASIC design centre
- 1999 - Foundation of Profichip GmbH
- 2000 - Move to new headquarter in Herzogenaurach
- 2001 - Introduction of the Micro-PLC-system - System 100V

- 2003 - Development of SPEED7 technology - the fastest Hard-PLC in the world
- 2005 - Development of VIPA Touch Panel family
- 2006 - More than 60 distributors and branch offices worldwide
- 2007 - Introduction of Compact-Class CPUs with SPEED7 technology

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## VIPA System 100V - The compact control system



The VIPA system 100V is a Micro-PLC system programmable with STEP7 from Siemens or WinPLC7- a programming tool from VIPA. A lite version of WinPLC7 is included in the scope of delivery with CPUs of system 100V. With a compact design, system 100V provides a maximum expansion of up to 160 I/O points by plugging in expansion modules. These Micro-PLCs are especially suitable for use in smaller and cost-conscious applications.



Micro-PLC programmable with STEP7 from Siemens

### Features of VIPA System 100V:

- Programming software WinPLC7 lite from VIPA included
- Programmable with STEP7 from Siemens
- Integrated work memory – operation is possible without additional memory card!
- Integrated ROM memory for continuous saving of program and data
- Integrated accumulator-backed RAM memory
- Supports standard MMC cards for saving of program and data
- MPI Interface on board
- Applications for centralized and decentralized areas are possible
- Expandable by up to four signal and function modules from the VIPA 100V and 200V range
- Real-time clock
- Expandable work memory (except CPU 112)
- Compact design
- Maintenance-free cage clamps
- Front connector included
- Mounts on 35mm DIN rails
- 24 months warranty
- UL-standard certification





# VIPA System 100V - The compact control system

## PLC-CPU's



Fig.: 114-6BJ02



112-4BH02	<p><b>CPU 112 - Micro PLC</b> DC 24V, 8/16kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock</p> <p><b>Periphery:</b> DI 8xDC 24V, DIO 4xDC 24V (DO 0,5A), DO 4xDC 24V, 0,5A, potential separated, not expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
114-6BJ02	<p><b>CPU 114 - Micro PLC</b> DC 24V, 16/24kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock</p> <p><b>Periphery:</b> DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 4xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
114-6BJ52	<p><b>CPU 114R - Micro PLC</b> DC 24V, 16/24kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock</p> <p><b>Periphery:</b> DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DO 8xrelays, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
115-6BL02	<p><b>CPU 115 - Micro PLC</b> DC 24V, 16/24kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock</p> <p><b>Periphery:</b> DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 12xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
115-6BL12	<p><b>CPU 115SER - Micro PLC</b> DC 24V, 16/24kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock</p> <p><b>Interface:</b> PtP RS232, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master</p> <p><b>Periphery:</b> DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 12xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
115-6BL22	<p><b>CPU 115DP - Micro PLC</b> DC 24V, 16/24kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock</p> <p><b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125</p> <p><b>Periphery:</b> DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 12xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
115-6BL32	<p><b>CPU 115SER - Micro PLC</b> DC 24V, 16/24kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock</p> <p><b>Interface:</b> PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master</p> <p><b>Periphery:</b> DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 12xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>

# VIPA System 100V - The compact control system

## CLAMP MODULES



Fig.: 101-4FH50

101-4FH50 **CM 101 - Terminal module**  
8x11 clamps

## DIGITAL IN-/OUTPUT MODULES

**Cross-system compatibility!**  
Further signal modules are shown on pages 15-17 (System 200V)



Fig.: 123-4EJ01

123-4EH01 **EM 123 - Expansion module, digital**  
DI 8xDC 24V, DO 8xDC 24V, 0,5A, potential separated

123-4EJ01 **EM 123 - Expansion module, digital**  
DI 16xDC 24V, DO 8xDC 24V, 0,5A, potential separated

123-4EJ11 **EM 123 - Expansion module, digital**  
DI 16xDC 24V, DO 8xrelays

123-4EJ20 **EM 123 - Expansion module, digital**  
DI 16xAC 60...230V, DO 8xrelays

123-4ELO1 **EM 123 - Expansion module, digital**  
DI 16xDC 24V, DO 16xDC 24V, 0,5A, potential separated

## ANALOG IN-/OUTPUT-MODULES

134-4EE00 **EM 134 - Expansion module, analog**  
AI 3x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I

## FIELDBUS SLAVE MODULES (PROFIBUS-DP) – DIGITAL INPUT



Fig.: 151-4PH00



151-4PH00 **SM 151 - Profibus-DP slave, digital**  
DC 24V, 12Mbit/s, address 1...99, DI 16xDC 24V

151-6PH00 **SM 151 - Profibus-DP slave, digital**  
DC 24V, 12Mbit/s, address 1...99, DI 16xDC 24V, 4x11 clamps

151-6PL00 **SM 151 - Profibus-DP slave, digital**  
DC 24V, 12Mbit/s, address 1...99, DI 32xDC 24V

## FIELDBUS SLAVE MODULES (PROFIBUS-DP) – DIGITAL OUTPUT



Fig.: 152-6PH50



152-4PH00 **SM 152 - Profibus-DP slave, digital**  
DC 24V, 12Mbit/s, address 1...99, DO 16xDC 24V, 1A

152-6PH00 **SM 152 - Profibus-DP slave, digital**  
DC 24V, 12Mbit/s, address 1...99, DO 16xDC 24V, 1A, 4x11 clamps

152-6PH50 **SM 152 - Profibus-DP slave, digital**  
DC 24V, 12Mbit/s, address 1...99, DO 16xrelays COM

152-6PL00 **SM 152 - Profibus-DP slave, digital**  
DC 24V, 12Mbit/s, address 1...99, DO 32xDC 24V, 1A

# VIPA System 100V - The compact control system

## FIELDBUS SLAVE MODULES (CANOPEN) – DIGITAL IN-/OUTPUT

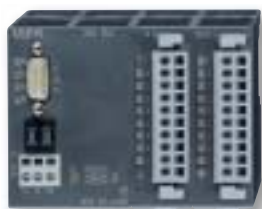


Fig.: 153-4CH00

CANopen

153-4CF00	<b>SM 153 - CANopen slave, digital</b> DC 24V, 1Mbit/s, address 0...99, DIO 8xDC 24V (DO 1A), 2x11 clamps
153-4CH00	<b>SM 153 - CANopen slave, digital</b> DC 24V, 1Mbit/s, address 0...99, DI 8xDC 24V, DIO 4xDC 24V (DO 1A), DO 4xDC 24V, 1A
153-6CH00	<b>SM 153 - CANopen slave, digital</b> DC 24V, 1Mbit/s, address 0...99, DI 8xDC 24V, DIO 4xDC 24V (DO 1A), DO 4xDC 24V, 1A, 4x11 clamps
153-6CL10	<b>SM 153 - CANopen slave, digital</b> DC 24V, 1Mbit/s, address 0...99, DI 24xDC 24V, DO 8xDC 24V, 1A

## FIELDBUS SLAVE MODULES (PROFIBUS-DP) – DIGITAL IN-/OUTPUT



Fig.: 153-4PF00



153-4PF00	<b>SM 153 - Profibus-DP slave, digital</b> DC 24V, 12Mbit/s, address 1...99, DIO 8xDC 24V (DO 1A), 2x11 clamps
153-4PH00	<b>SM 153 - Profibus-DP slave, digital</b> DC 24V, 12Mbit/s, address 1...99, DI 8xDC 24V, DO 8xDC 24V, 1A
153-6PH00	<b>SM 153 - Profibus-DP slave, digital</b> DC 24V, 12Mbit/s, address 1...99, DI 8xDC 24V, DO 8xDC 24V, 1A, 4x11 clamps
153-6PL00	<b>SM 153 - Profibus-DP slave, digital</b> DC 24V, 12Mbit/s, address 1...99, DI 16xDC 24V, DO 16xDC 24V, 1A
153-6PL10	<b>SM 153 - Profibus-DP slave, digital</b> DC 24V, 12Mbit/s, address 1...99, DI 24xDC 24V, DO 8xDC 24V, 1A

## MEMORY EXPANSIONS



Fig.: MMC - MultiMediaCard

953-0KX10	<b>MMC - MultiMediaCard</b> Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
193-0KA00	<b>ME 193A - Memory expansion</b> total 24/32kByte work/load memory for System 100V CPUs/CC 03. Please order the memory expansion together with the CPU or with CC03. The memory expansion will be carried out at VIPA.
193-0KB00	<b>ME 193B - Memory expansion</b> total 32/40kByte work/load memory for System 100V CPUs/CC 03. Please order the memory expansion together with the CPU or with CC03. The memory expansion will be carried out at VIPA.

## ACCESSORIES

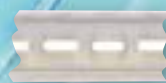


Fig.: 35mm DIN rail



Fig.: Front connector  
• 10 pole



Fig.: 1-tier Bus connector

290-0AA10	<b>Bus connector</b> 1tier
290-1AF30	<b>35mm DIN rail</b> 530mm length (other lengths upon request)
292-1AF00	<b>Front connector</b> 10pole with cage clamps
HB100D	<b>Manual System 100V, German</b>
HB100E	<b>Manual System 100V, English</b>

## VIPA System 200V - The modular control system



The VIPA System 200V is a highly compact and modular control system for centralized and decentralized applications. With its comprehensive range of communication and fieldbus modules System 200V is also supporting complex installations. Due to the variety of modules available, it can be used for nearly all mid-range applications.



Modular control system programmable with STEP7 from Siemens

### Features of VIPA System 200V:

- Programmable with WinPLC7 from VIPA
- Programmable with STEP7 from Siemens
- Integrated work memory – operation possible without additional memory card!
- Integrated ROM memory for continuous saving of program and data
- Integrated accumulator backed RAM memory
- Supporting standard MMC cards for saving of program and data
- MPI Interface on board
- Centralized and decentralized applications are possible
- Modular expansion possible
- Real-time clock
- Centralized application with the possibility of up to 32 modules on the CPU rack
- Compact design
- Maintenance free cage clamps
- Front connector included
- 35mm DIN rail mounting
- 24 months warranty
- UL-standard certification



# VIPA System 200V - The modular control system

## PLC-CPUS (FOR STEP5 FROM SIEMENS)



Fig.: 242-2BP01



241-1BA01	<b>CPU 241 - PLC CPU</b> 8kByte memory, AS511, MMC slot
241-2BP01	<b>CPU 241DP - PLC CPU</b> 8kByte memory, AS511, MMC slot <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
241-2BT10	<b>CPU 241NET - PLC-CPU</b> 8kByte memory, AS511, MMC slot, real-time clock <b>Interface:</b> Ethernet-CP 243, RFC1006, TCP/IP, UDP, parameterizable via handling blocks
242-1BA01	<b>CPU 242 - PLC CPU</b> 32kByte memory, AS511, MMC slot
242-2BP01	<b>CPU 242DP - PLC CPU</b> 32kByte memory, AS511, MMC slot <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
242-2BT10	<b>CPU 242NET - PLC-CPU</b> 32kByte memory, AS511, MMC-Slot, real-time clock <b>Interface:</b> Ethernet-CP 243, RFC1006, TCP/IP, UDP, parameterizable via handling blocks
243-1BA01	<b>CPU 243 - PLC CPU</b> 52kByte memory, AS511, MMC slot, real-time clock
243-2BP01	<b>CPU 243DP - PLC CPU</b> 52kByte memory, AS511, MMC slot, real-time clock <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
243-2BT10	<b>CPU 243NET - PLC-CPU</b> 52kByte memory, AS511, MMC-Slot, real-time clock <b>Interface:</b> Ethernet-CP 243, RFC1006, TCP/IP, UDP, parameterizable via handling blocks
244-1BA01	<b>CPU 244 - PLC CPU</b> 104kByte memory, AS511, MMC slot, real-time clock
244-2BP01	<b>CPU 244DP - PLC CPU</b> 104kByte memory, AS511, MMC slot, real-time clock <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
244-2BT10	<b>CPU 244NET - PLC-CPU</b> 104kByte memory, AS511, MMC-Slot, real-time clock <b>Interface:</b> Ethernet-CP 243, RFC1006, TCP/IP, UDP, parameterizable via handling blocks

# VIPA System 200V - The modular control system

## PLC-CPU (FOR STEP7 FROM SIEMENS)



Fig.: 214-1BA02



Fig.: 214-2BP02



214-1BA02	<b>CPU 214 - PLC CPU</b> DC 24V, 48/80kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock
214-1BC02	<b>CPU 214C - PLC CPU</b> DC 24V, 32/40kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock
214-2BM02	<b>CPU 214DPM - PLC CPU</b> DC 24V, 48/80kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves
214-2BP02	<b>CPU 214DP - PLC CPU</b> DC 24V, 48/80kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
214-2BS02	<b>CPU 214SER - PLC CPU</b> DC 24V, 48/80kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> PtP 2x RS232, ASCII, STX/ETX, 3964R with RK512
214-2BS12	<b>CPU 214SER - PLC CPU</b> DC 24V, 48/80kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> PtP RS232, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master, modem connectable
214-2BS32	<b>CPU 214SER - PLC CPU</b> DC 24V, 48/80kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> PtP RS485, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master
214-2BT10	<b>CPU 214NET - PLC CPU</b> DC 24V, 48/80kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Ethernet-CP 243, S7 communication, RFC1006, TCP/IP, parameterizable with NetPro from Siemens
214-2CM02	<b>CPU 214CAN - PLC CPU</b> DC 24V, 48/80kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> CANopen master, 1Mbit/s, up to 126 slaves
215-1BA02	<b>CPU 215 - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock
215-2BM02	<b>CPU 215DPM - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves
215-2BP02	<b>CPU 215DP - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
215-2BS02	<b>CPU 215SER - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> PtP 2x RS232, ASCII, STX/ETX, 3964R with RK512
215-2BS12	<b>CPU 215SER - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> PtP RS232, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master, modem connectable
215-2BS32	<b>CPU 215SER - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> PtP RS485, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master

# VIPA System 200V - The modular control system

## PLC-CPUS (FOR STEP7 FROM SIEMENS)



Fig.: 215-2BP02



215-2BT10	<b>CPU 215NET - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Ethernet-CP 243, S7 communication, RFC1006, TCP/IP, parameterizable with NetPro from Siemens
215-2CM02	<b>CPU 215CAN - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> CANopen master, 1Mbit/s, up to 126 slaves
216-1BA02	<b>CPU 216 - PLC CPU</b> DC 24V, 128/192kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock
216-2BM02	<b>CPU 216DPM - PLC CPU</b> DC 24V, 128/192kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves
216-2BP02	<b>CPU 216DP - PLC CPU</b> DC 24V, 128/192kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
216-2BS02	<b>CPU 216SER - PLC CPU</b> DC 24V, 128/192kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> 2x RS232, ASCII, STX/ETX, 3964R with RK512
216-2BS12	<b>CPU 216SER - PLC CPU</b> DC 24V, 128/192kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> PtP RS232, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master, modem connectable
216-2BS32	<b>CPU 216SER - PLC CPU</b> DC 24V, 128/192kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> PtP RS485, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master
216-2BT10	<b>CPU 216NET - PLC CPU</b> DC 24V, 128/192kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Ethernet-CP 243, S7 communication, RFC1006, TCP/IP, parameterizable with NetPro from Siemens
216-2CM02	<b>CPU 216CAN - PLC CPU</b> DC 24V, 128/192kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> CANopen master, 1Mbit/s, up to 126 slaves

## CLAMPS MODULES



Fig.: 201-1AA10

201-1AA00	<b>CM 201 - Double clamps module</b> 2x11 clamps, grey/grey
201-1AA10	<b>CM 201 - Double clamps module</b> 2x11 clamps, green-yellow/grey
201-1AA20	<b>CM 201 - Double clamps module</b> 2x11 clamps, red/blue
201-1AA40	<b>CM 201 - 4-tier clamps module</b> 2x5 clamps grey/grey and 2x6pole red/blue

# VIPA System 200V - The modular control system

## POWER SUPPLY



Fig.: 207-2BA20

207-1BA00	<b>PS 207 - Power supply</b> AC 100/230V, DC 24V, 2A, 48W
207-2BA20	<b>PS 207 - Power supply</b> AC 100/230V, DC 24V, 2A, 48W with 2x11 clamps red/blue

## DIGITAL INPUT MODULES



Fig.: 221-1BF00



Fig.: 221-1BH10



Fig.: 221-2BL10

221-1BF00	<b>SM 221 - Digital input</b> DI 8xDC 24V
221-1BF10	<b>SM 221 - Digital input</b> DI 8xDC 24V, 0,2 ms
221-1BF21	<b>SM 221 - Digital input</b> DI 8xDC 24V, 0,2ms, alarm
221-1BF30	<b>SM 221 - Digital input ECO</b> DI 8xDC 24V
221-1BF50	<b>SM 221 - Digital input</b> DI 8xDC 24V, NPN
221-1BH00	<b>SM 221 - Digital input</b> DI 16xDC 24V, for conversion module DEA-UB4x
221-1BH10	<b>SM 221 - Digital input</b> DI 16xDC 24V
221-1BH20	<b>SM 221 - Digital input</b> DI 16xDC 24V, thereof counter 1x32Bit (AB), until 100kHz
221-1BH30	<b>SM 221 - Digital input ECO</b> DI 16xDC 24V
221-1BH50	<b>SM 221 - Digital input</b> DI 16xDC 24V, NPN, for conversion module DEA-UB4x
221-1BH51	<b>SM 221 - Digital input</b> DI 16xDC 24V, NPN
221-1FD00	<b>SM 221 - Digital input</b> DI 4xAC/DC 90...230V, potential separated per channel
221-1FF20	<b>SM 221 - Digital input</b> DI 8xAC/DC 60...230V
221-1FF30	<b>SM 221 - Digital input</b> DI 8xAC/DC 24...48V
221-1FF40	<b>SM 221 - Digital input</b> DI 8xAC 230V, 20mA input current, hysteresis
221-1FF50	<b>SM 221 - Digital input</b> DI 8xAC/DC 180...265V
221-2BL10	<b>SM 221 - Digital input</b> DI 32xDC 24V
KS221-1BH00	<b>SM 221 Set - Digital input</b> 1xSM 221-1BH00, DI 16xDC 24V, 1xDEA-KB91A (1m), 1xDEA-UB48
KSD221-1BH00	<b>SM 221 Set - Digital input</b> 1xSM 221-1BH00, DI 16xDC 24V, 1xDEA-KB91A (1m), 1xDEA-UB48D (3-wire)



# VIPA System 200V - The modular control system

## DIGITAL OUTPUT MODULES



Fig.: 222-1BF00



Fig.: 222-1BH00



Fig.: 222-2BL10

222-1BF00	<b>SM 222 - Digital output</b> DO 8xDC 24V, 1A
222-1BF10	<b>SM 222 - Digital output</b> DO 8xDC 24V, 2A
222-1BF20	<b>SM 222 - Digital output</b> DO 8xDC 24V, 2A, 4 groups per 2 outputs
222-1BF30	<b>SM 222 - Digital output ECO</b> DO 8xDC 24V, 0,5A
222-1BF50	<b>SM 222 - Digital output</b> DO 8xDC 24V, 0,5A, NPN
222-1BH00	<b>SM 222 - Digital output</b> DO 16xDC 24V, 0,5A, for conversion module DEA-UB4x
222-1BH10	<b>SM 222 - Digital output</b> DO 16xDC 24V, 1A, sum current up to 10A
222-1BH20	<b>SM 222 - Digital output</b> DO 16xDC 24V, 2A, sum current up to 10A
222-1BH30	<b>SM 222 - Digital output ECO</b> DO 16xDC 24V, 0,5A
222-1BH50	<b>SM 222 - Digital output</b> DO 16xDC 24V, 0,5A NPN, for conversion module DEA-UB4x
222-1BH51	<b>SM 222 - Digital output</b> DO 16xDC 24V, 0,5A, NPN
222-1DB00	<b>SM 222 - Digital output dimmer</b> DO 2xAC 230V, 2A
222-1FD10	<b>SM 222 - Digital output</b> DO 4xDC 400V/AC 230V, 0,5A, Solid State relays, potential separated per channel
222-1FF00	<b>SM 222 - Digital output</b> DO 8xDC 400V/AC 230V, 0,5A, Solid State relays COM
222-1HD10	<b>SM 222 - Digital output</b> DO 4xDC 30V/AC 230V, 5A, relays, potential separated per channel
222-1HD20	<b>SM 222 - Digital output</b> DO 4xDC 30V/AC 230V, 16A, relays, bistable, potential separated per channel
222-1HF00	<b>SM 222 - Digital output</b> DO 8xDC 30V/AC 230V, 5A, relays COM
222-2BL10	<b>SM 222 - Digital output</b> DO 32xDC 24V, 1A, 2 groups per 16 DO, sum current per group 10A
KS222-1BH00	<b>SM 222 Set - Digital output</b> 1xSM 222-1BH00, DO 16xDC 24V, 0,5A, 1xDEA-KB91A (1m), 1xDEA-UB48
KSD222-1BH00	<b>SM 222 Set - Digital output</b> 1xSM 222-1BH00, DO 16xDC 24V, 0,5A, 1xDEA-KB91A (1m), 1xDEA-UB48D (3-wire)

## DIGITAL IN-/OUTPUT MODULES



Fig.: 223-1BF00

223-1BF00	<b>SM 223 - Digital in-/output</b> DIO 8xDC 24V (DO 1A)
223-2BL10	<b>SM 223 - Digital in-/output</b> DI 16xDC 24V, DO 16xDC 24V, 1A, sum current up to 10A

# VIPA System 200V - The modular control system

## ANALOG INPUT MODULES



Fig.: 231-1BD53

231-1BD30	<b>SM 231 - Analog input ECO</b> AI 4x12Bit, $\pm 10V$
231-1BD40	<b>SM 231 - Analog input ECO</b> AI 4x12Bit, 4...20mA, $\pm 20mA$
231-1BD53	<b>SM 231 - Analog input</b> AI 4x16Bit, U, I, R, TC, RTD
231-1BD60	<b>SM 231 - Analog input</b> AI 4x12Bit, 0/4...20mA, potential separated per channel
231-1BD70	<b>SM 231 - Analog input</b> AI 4x12Bit, $\pm 10V$ , potential separated per channel
231-1BF00	<b>SM 231 - Analog input</b> AI 8x16Bit (2-wire), 4x16Bit (4-wire), 0..60 mV, TC, RTD
231-1FD00	<b>SM 231 - Analog input FAST</b> AI 4x16Bit, U, I, 1ms total

## ANALOG OUTPUT MODULES



Fig.: 232-1BD51

232-1BD30	<b>SM 232 - Analog output ECO</b> AO 4x12Bit, 0...10V, $\pm 10V$
232-1BD40	<b>SM 232 - Analog output ECO</b> AO 4x12Bit, 0/4...20mA
232-1BD51	<b>SM 232 - Analog output</b> AO 4x12Bit, U, I

## ANALOG IN-/OUTPUT MODULES



Fig.: 234-1BD50

234-1BD50	<b>SM 234 - Analog in-/output</b> AI 2x12Bit, U, I, AO 2x12Bit, U, I
234-1BD60	<b>SM 234 - Analog in-/output</b> AI 3x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I

## COMBINATION MODULES



Fig.: 238-2BCoo

238-2BCoo	<b>SM 238C - Digital in-/output, counter, analog in-/output</b> DI 12xDC 24V, counter 3x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 1A); AI 3x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I, only in connection with 21x CPUs
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# VIPA System 200V - The modular control system

## COMMUNICATION PROCESSORS



Fig.: 240-1BA20

240-1BA20	<b>CP 240 - Communication processor</b> PtP RS232, SubD 9 pol., potential separated, ASCII fragmented, STX/ETX, 3964R with RK512, Modbus master/slave short/long
240-1CA20	<b>CP 240 - Communication processor</b> PtP RS485, D-type pole, potential separated, ASCII fragmented, STX/ETX, 3964R with RK512, Modbus master/slave short/long
240-1DA10	<b>CM 240 - Mini-switch</b> 4xRJ45, Ethernet, 10/100Mbit/s, Auto-negotiation, Speed-auto-sensing, Auto MDI/MDIX crossover, (external DC-In port for stand-alone operation, order nr. 970-oCM00, EUR 5,00)
240-1EA20	<b>CP 240 - Communication processor</b> EnOcean functransceiver, SMA jack, 868,3MHz, (please order antenna separately: 240-oEA00 or 240-oEA10)
240-1FA20	<b>CP 240 - Communication processor</b> M-Bus master, potential separated, up to 6 slaves

## FIELDBUS MASTER MODULES



Fig.: 208-1CA00



208-1CA00	<b>IM 208CAN - CANopen master</b> RS485, 1Mbit/s, up to 126 slaves
208-1DP01	<b>IM 208DP - Profibus-DP master</b> RS485, 12Mbit/s, up to 125 slaves
208-1DP11	<b>IM 208DPO - Profibus-DP master</b> LWL interface (POF, HCS), 12Mbit/s, up to 125 slaves

## COUNTER-/SSI MODULES



Fig.: 250-1BA00

250-1BA00	<b>FM 250 - Counter module</b> counter 2x32Bit (AB), until 1MHz, DO 2xDC 24V, 1A
250-1BS00	<b>FM 250S - SSI-module</b> 1xSSI, RS422, 12/24 Bit, 600kbit/s, DO 2xDC 24V, 1A

## POSITIONING MODULES



Fig.: 253-1BA00

253-1BA00	<b>FM 253 - Positioning module</b> for stepper motor, 1 axle, RS422, potential separated, DI 3xDC 24V, DO 2xDC 24V, 1A
254-1BA00	<b>FM 254 - Positioning module</b> for servo motor, 1 axle, incremental encor, RS422, potential separated, DI 3xDC 24V, DO 1xDC 24V, 1A

# VIPA System 200V - The modular control system

## INTERFACE MODULES



Fig.: 261-1CA00

260-1AA00	<b>IM 260 - Interface module</b> basic module for up to 3 expansion modules
261-1CA00	<b>IM 261 - Interface module</b> expansion module for the 2nd up to 4th line

## FIELD BUS SLAVE MODULES



Fig.: 240-1BA20



253-1CA01	<b>IM 253CAN - CANopen slave</b> DC 24V, 1Mbit/s, address 0...99, up to 32 modules
253-1CA30	<b>IM 253CAN - CANopen slave ECO</b> DC 24V, 1Mbit/s, address 1...125, up to 8 modules
253-1DN00	<b>IM 253DN - DeviceNet slave</b> DC 24V, 500kbit/s, address 0...63, up to 32 modules
253-1DP01	<b>IM 253DP - Profibus-DP slave</b> DC 24V, 12Mbit/s, address 1...99, DP-Vo, DP-V1, configuration via GSD file from VIPA, up to 32 modules
253-1DP11	<b>IM 253DPO - Profibus-DP slave</b> DC 24V, 12Mbit/s, LWL interface (POF, HCS), address 1...99, DP-Vo, DP-V1, configuration via GSD file from VIPA, up to 32 modules
253-1DP31	<b>IM 253DP - Profibus-DP slave ECO</b> DC 24V, 12Mbit/s, address 1...125, DP-Vo, DP-V1, configuration via GSD file from VIPA, up to 8 modules
253-1B00	<b>IM 253IBS - INTERBUS slave</b> DC 24V, up to 16 I/O modules
253-1NE00	<b>IM 253NET - Ethernet slave</b> DC 24V, Ethernet RJ45, 10/100Mbit/s, S5 communication, Modbus TCP, up to 32 modules
253-2DP50	<b>IM 253DPR - Profibus-DP slave</b> DC 24V, 12Mbit/s, address 1...99, 2 channels redundant

## MEMORY EXTENSIONS

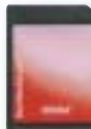


Fig.: MMC - MultiMediaCard

953-0KX10	<b>MMC - MultiMediaCard</b> Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
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# VIPA System 200V - The modular control system

## ACCESSORIES



Fig.: 35mm DIN Rail



Fig.: 10 pole front connector



Fig.: 1tier bus connector

240-0EA00	<b>CP 240 - EnOcean antenna</b> , portable, incl. SMA connector
240-0EA10	<b>CP 240 - EnOcean antenna</b> , magnetic base, incl. 150cm cable and SMA connector
260-1XY05	<b>Connection cable</b> for Interface modules, 0,5m
260-1XY10	<b>Connection cable</b> for Interface modules, 1m
260-1XY15	<b>Connection cable</b> for Interface modules, 1,5m
260-1XY20	<b>Connection cable</b> for Interface modules, 2m
260-1XY25	<b>Connection cable</b> for Interface modules, 2,5m
290-0AA10	<b>Bus connector</b> , 1tier
290-0AA20	<b>Bus connector</b> , 2tier
290-0AA40	<b>Bus connector</b> , 4tier
290-0AA80	<b>Bus connector</b> , 8tier
290-1AF30	<b>35mm DIN rail</b> , 530mm length
292-1AF00	<b>Front connector</b> , 10pole with cage clamps
292-1AH00	<b>Front connector</b> , 18pole with cage clamps
292-1XY00	<b>Labelling cards</b> , (I/O-labelling) with transparent cover foil, 10 pieces
292-1XY10	<b>Labelling cards</b> , (I/O-labelling), perforated, 10 sheets each 8 cards
292-1XY20	<b>Clip-on cards</b> , (module-labelling), perforated, 10 sheets each 108 cards
970-0CM00	<b>CM 240 - Jack</b> , for CM 240 - mini switch, external DC 24V power supply
HB97D	<b>Manual System 200V</b> , German
HB97E	<b>Manual System 200V</b> , English

## SPARE PARTS



Fig.: 288-2BL10

221-1BF20	<b>SM 221 - Digital input</b> (only for spare part requirement, succession module 221-1BF21) DI 8xDC 24V, 3ms, alarm
288-2BL10	<b>PC 288 CPU</b> (only for spare part requirement) PC-LAN extended, STPC (486), 66MHz, DVI, RS232, Ethernet RJ45, 10/100Mbit/s, TCP/IP, up to 32 I/O-module

# VIPA System 300V - The control system for centralized and decentralized applications



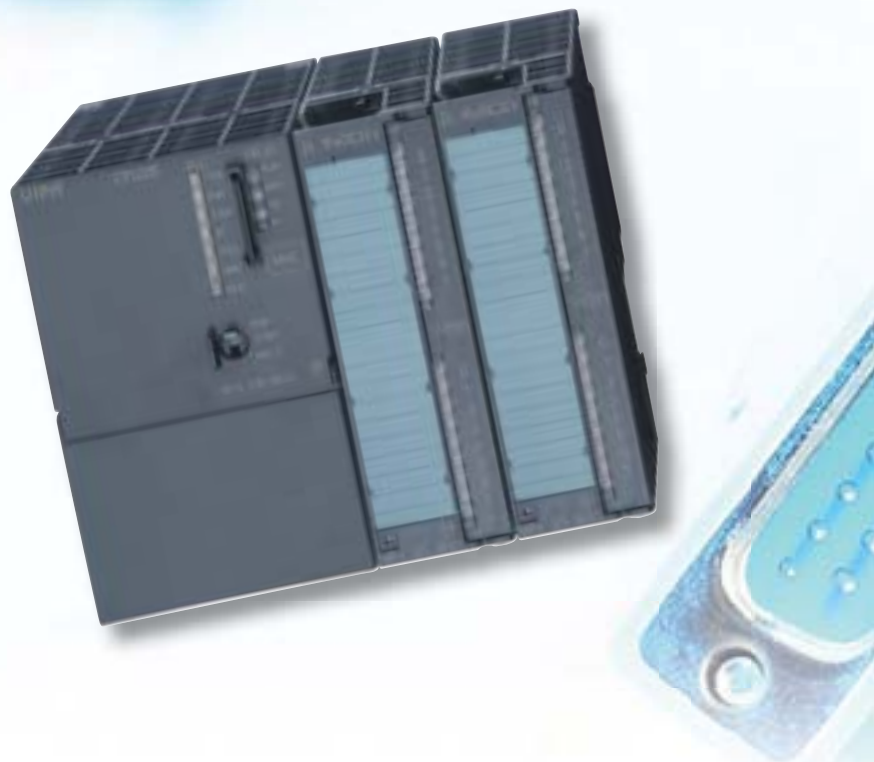
The VIPA System 300V is a modular control system designed to be compatible to the S7-300 from Siemens. It is suitable for centralized and decentralized applications in the medium and upper range of performance.



Control system for centralized and decentralized applications programmable with Step7 from Siemens

## Features of VIPA System 300V:

- Programmable with WinPLC7 from VIPA
- Programmable with STEP7 from Siemens
- Integrated work memory – operation is possible without additional memory card!
- Integrated ROM memory for continuous saving of program and data
- Integrated battery backed RAM memory
- Supports standard MMC cards for saving of program and data
- Profibus-DP- and MPI-Interface on board
- Designed to be compatible to the S7-300® from Siemens
- Real-time clock
- Centralized applications with up to 32 modules in one CPU rack
- Mixed operation with VIPA and Siemens modules is possible
- Central and decentral applications
- Modular for easy expansion
- 24 months warranty
- UL-standard certification



# VIPA System 300V - The control system for centralized and decentralized applications

## PLC-CPU



Fig.: 315-1SL01



314-1SL01	<b>CPU 314 - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
314-2DP01	<b>CPU 314DPM - PLC CPU</b> DC 24V, 96/144kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves
315-1SL01	<b>CPU 315 - PLC CPU</b> DC 24V, 192/256kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
315-2DP01	<b>CPU 315DPM - PLC CPU</b> DC 24V, 192/256kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves
316-1SL01	<b>CPU 316 - PLC CPU</b> DC 24V, 256/512kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP slave, 12Mbit/s, address 1...125
316-2DP01	<b>CPU 316DPM - PLC CPU</b> DC 24V, 256/512kByte work/load memory, MP <sup>2</sup> I, MMC slot, real-time clock <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves

## POWER SUPPLY



Fig.: 307-1BA00

307-1BA00	<b>PS 307 - Power supply</b> AC 100/240V, DC 24V, 2,5A
307-1EA00	<b>PS 307 - Power supply</b> AC 100/240V, DC 24V, 5A
307-1KA00	<b>PS 307 - Power supply</b> AC 100/240V, DC 24V, 10A

# VIPA System 300V - The control system for centralized and decentralized applications

## DIGITAL INPUT MODULES



Fig.: 321-1BH01

321-1BH01	<b>SM 321 - Digital input</b> DI 16xDC 24V
321-1BL00	<b>SM 321 - Digital input</b> DI 32xDC 24V, two groups
321-1FH00	<b>SM 321 - Digital input</b> DI 16xAC 120/230V, four groups

## DIGITAL OUTPUT MODULES



Fig.: 322-1BH01

322-1BF01	<b>SM 322 - Digital output</b> DO 8xDC 24V, 2A, two groups
322-1BH01	<b>SM 322 - Digital output</b> DO 16xDC 24V, 1A, two groups
322-1BH41	<b>SM 322 - Digital output</b> DO 16xDC 24V, 2A, two groups
322-1BH60	<b>SM 322 - Digital output</b> DO 16xDC 24V, 0,5A, one group, for manual operation
322-1BL00	<b>SM 322 - Digital output</b> DO 32xDC 24V, 1A, four groups
322-1HH00	<b>SM 322 - Digital output</b> DO 16xrelays, DC 24V/AC 230V, 5A, two groups
322-5FF00	<b>SM 322 - Digital output</b> DO 8xAC 120/230V, 2A, potential separated per channel

## DIGITAL IN-/OUTPUT MODULES



Fig.: 323-1BL00

323-1BH00	<b>SM 323 - Digital in-/output</b> DIO 16xDC 24V (DO 1A), two groups
323-1BH01	<b>SM 323 - Digital in-/output</b> DI 8xDC 24V, DO 8xDC 24V, 1A, two groups
323-1BL00	<b>SM 323 - Digital in-/output</b> DI 16xDC 24V, DO 16xDC 24V, 1A, one or two groups



# VIPA System 300V - The control system for centralized and decentralized applications

## ANALOG INPUT MODULES



Fig.: 331-7KB01

331-1KF01	<b>SM 331 - Analog input</b> AI 8x13Bit, U, I, R, RTD, for 40pole front connector
331-7KB01	<b>SM 331 - Analog input</b> AI 2x12Bit, U, I, R, TC, RTD
331-7KF01	<b>SM 331 - Analog input</b> AI 8x12Bit, U, I, R, TC, RTD

## ANALOG OUTPUT MODULES



Fig.: 332-5HB01

332-5HB01	<b>SM 332 - Analog output</b> AO 2x12Bit, U, I
332-5HD01	<b>SM 332 - Analog output</b> AO 4x12Bit, U, I
332-5HD50	<b>SM 332 - Analog output</b> AO 4x12Bit, 4...20mA, for manual operation
332-5HD60	<b>SM 332 - Analog output</b> AO 4x12Bit, 0...10V, for manual operation

## COMMUNICATION PROCESSORS



Fig.: 341-1CH01

341-1AH01	<b>CP 341 - Communication processor</b> PtP RS232, SubD 9 pol., potential separated, ASCII, 3964R
341-1CH01	<b>CP 341 - Communication processor</b> PtP RS422/485, SubD 9 pol., potential separated, ASCII, 3964R

# VIPA System 300V - The control system for centralized and decentralized applications

## CONTROL MODULES



Fig.: 355-4SD00



Fig.: 355-4SF00

355-3SD00	<b>FM 355 - Temperature control module</b> 4 channels, current/voltage measurement inputs
355-3SD10	<b>FM 355 - Temperature control module</b> 4 channels, thermo element/Pt100 measurement inputs *
355-3SF00	<b>FM 355 - Temperature control module</b> 8 channels, current/voltage measurement inputs
355-3SF10	<b>FM 355 - Temperature control module</b> 8 channels, thermo element/Pt100 measurement inputs *
355-4SD00	<b>FM 355 - Temperature control module</b> 4 channels with output 8xDIO DC 24V (DO 0,5A), current/voltage measurement inputs
355-4SD10	<b>FM 355 - Temperature control module</b> 4 channels with output 8xDIO DC 24V (DO 0,5A), thermo element/Pt100 measurement inputs *
355-4SF00	<b>FM 355 - Temperature control module</b> 8 channels with output 24xDIO DC 24V (DO 0,5A), current/voltage measurement inputs
355-4SF10	<b>FM 355 - Temperature control module</b> 8 channels with output 24xDIO DC 24V (DO 0,5A), thermo element/Pt100 measurement inputs *

\* Please also order summing points for FM 355 if necessary (page 27)

## FIELDBUS SLAVE MODULES



Fig.: 353-1DP01



353-1DP01	<b>IM 353DP - Profibus-DP slave</b> DC 24V, 12Mbit/s, address 1...99, up to 32 modules, configuration via GSD file from VIPA
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## MEMORY EXTENSIONS



Fig.: MMC - MultiMediaCard

953-0KX10	<b>MMC - MultiMediaCard</b> Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
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# VIPA System 300V - The control system for centralized and decentralized applications

## ACCESSORIES



Fig.: 20pol. front connector



Fig.: DIN rail

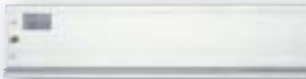


Fig.: Manual

355-0AM00	<b>Summing point FM 355 Temperature control module</b> for front connector 40pole screw contact in connection with thermo elements
355-0BM00	<b>Summing point FM 355 Temperature control module</b> for front connector 40pole cage clamps in connection with thermo elements
390-1AB60	<b>DIN rail</b> length: 160mm
390-1AE80	<b>DIN rail</b> length: 482mm
390-1AF30	<b>DIN rail</b> length: 530mm
390-1AJ30	<b>DIN rail</b> length: 830mm
390-9AB60	<b>DIN rail</b> length: 160mm, ECO pack: 100 pieces
390-9AE80	<b>DIN rail</b> length: 482mm, ECO pack: 32 pieces
390-9AF30	<b>DIN rail</b> length: 530mm, ECO pack: 32 pieces
390-9AJ30	<b>DIN rail</b> 830mm, ECO pack: 20 pieces
390-9BC00	<b>DIN rail</b> 2000mm, ECO pack: 10 pieces
392-1AJ00	<b>Front connector</b> 20pole with screw contact
392-1AM00	<b>Front connector</b> 40pole with screw contact
392-1BJ00	<b>Front connector</b> 20pole with cage clamps
392-1BM01	<b>Front connector</b> 40pole with cage clamps
392-9AJ00	<b>Front connector</b> 20pole with screw contact, ECO pack: 100 pieces
392-9AM00	<b>Front connector</b> 40pole with screw contact, ECO pack: 100 pieces
HB130D	<b>Manual System 300V, German</b>
HB130E	<b>Manual System 300V, English</b>

## VIPA System 300S - The High-Speed control system



With the VIPA “SPEED7 Technology”, system 300S is the fastest control system in the world programmable with STEP7 from Siemens. The maximum memory for program and data has already been integrated into the SPEED7 CPUs. For this reason the CPUs can be operated without an additional memory card. Depending on the CPU type, the integrated work memory can be expanded up to 8MByte with the VIPA Memory extension card as required. All CPUs in the System 300S are equipped with an Ethernet Interface for PU/OP communication. Depending on the CPU type, a CP 343 interface for Ethernet communication has been integrated. The compact SPEED7 CPUs with their integrated I/O periphery are especially suitable for cost-conscious applications. Because of its high performance and scalable memory, system 300S is especially suitable for mid to high range applications.



High-Speed control system programmable with STEP7 from Siemens

### Features VIPA System 300S:

- Programmable with WinPLC7 from VIPA
- Programmable with STEP7 from Siemens
- Integrated work memory – operation is possible without using an additional memory card!
- Flexible extension of memory using a memory extension card for the desired upgrade.
- Integrated battery backed RAM memory
- Supports standard MMC cards for saving of program and data
- SPEED-Bus enabling expansion with High-Speed signal modules and communication processors
- Ethernet-, Profibus-DP- and MPI interface on board
- Profibus-DP-Master/PtP (switchable), 12Mbit/s, up to 125 slaves
- Designed compatibility to the S7-300 from Siemens
- Real-time clock
- Mixed operation is supported for VIPA and Siemens modules in the same rack
- Suitable for central and decentral applications
- Modular design for easy expansion
- Centralized applications with up to 32 modules in one CPU rack
- 24 months warranty
- UL-standard certification



# VIPA System 300S - The High-Speed control system

## PLC-CPU's



Fig.: 312-5BE03



**312-5BE03 CPU 312SC - SPEED7 technology**  
 DC 24V, 32kByte work memory expandable up to 512kByte (50% program/50% data), MPI, MMC-Slot, real-time clock  
**Interface:**  
 PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus-Master, USS-Master, Ethernet-Interface for PU/OP communication  
**Periphery:**  
 DI 16xDC 24V (16 alarm capable), counter 2x32Bit (AB), up to 10kHz, DO 8xDC 24V, 0,5A, 2xPWM/2xStepper



Fig.: 313-5BF03



**313-5BF03 CPU 313SC - SPEED7 technology**  
 DC 24V, 64kByte work memory expandable up to 512kByte (50% program/50% data), MPI, MMC slot, real-time clock  
**Interface:**  
 PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PU/OP communication  
**Periphery:**  
 DI 24xDC 24V (16 alarm capable), counter 3x32Bit (AB), up to 30kHz, DO 16xDC 24V, 0,5A, 3xPWM/3xStepper, AI 4x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I



Fig.: 314-6CF02



**313-6CF03 CPU 313S/DPM - SPEED7 technology**  
 DC 24V, 64kByte work memory expandable up to 512kByte (50% program/50% data), MPI, MMC-Slot, real-time clock  
**Interface:**  
 Profibus-DP-Master, 12Mbit/s, up to zu 125 Slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus-Master, USS-Master, Ethernet-Interface for PU/OP communication  
**Periphery:**  
 DI 16xDC 24V (16 alarm capable), counter 3x32Bit (AB), up to 30kHz, DO 16xDC 24V, 0,5A, 3xPWM/3xStepper

**314-6CF02 CPU 314ST/DPM - SPEED7 technology**  
 DC 24V, 512kByte work memory expandable up to 2MByte (50% program/50% data), MPI, MMC slot, real-time clock, SPEED-Bus  
**Interface:**  
 Profibus-DP master, 12Mbit/s, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PU/OP communication  
**Periphery:**  
 DI 8xDC 24V (alarm capable), counter 4x32Bit (AB), up to 100kHz, DIO 8xDC 24V (DI alarm capable, DO 0,5A), AI 4x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I



Fig.: 315-2AG12



**314-6CG03 CPU 314SC/DPM - SPEED7 technology**  
 DC 24V, 128kByte work memory expandable up to 1MByte (50% program/50% data), MPI, MMC slot, real-time clock  
**Interface:**  
 Profibus-DP master, 12Mbit/s, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PU/OP communication  
**Periphery:**  
 DI 24xDC 24V (16 alarm capable), counter 4x32Bit (AB), up to 60kHz, DIO 8xDC 24V (DO 0,5A), DO 16xDC 24V, 0,5A, 4xPWM/4xstepper, AI 4x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I

**315-2AG12 CPU 315SB/DPM - SPEED7 technology**  
 DC 24V, 1MByte work memory expandable up to 2MByte (50% program/50% data), MPI, MMC slot, real-time clock  
**Interface:**  
 Profibus-DP master, 12Mbit/s, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PU/OP communication

**Cross-system compatibility!**  
 Modules of system 300V can be applied with SPEED7-CPU's.

# VIPA System 300S - The High-Speed control system

## PLC-CPUs



Fig.: 317-2AJ12



315-4NE12	<p><b>CPU 315SN/NET - SPEED7 technology</b> DC 24V, 1MByte work memory expandable up to 2MByte (50% program/50% data), MPI, MMC slot, real-time clock <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, Ethernet interface for PU/OP communication, USS-Master, Ethernet-CP 343 Lean, S7 communication, RFC1006, H1, TCP/IP, UDP, up to 8 connections</p>
317-2AJ12	<p><b>CPU 317SE/DPM - SPEED7 technology</b> DC 24V, 2MByte work memory expandable up to 8MByte (50% program/50% data), MPI, MMC slot, real-time clock, SPEED-Bus <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PU/OP communication</p>
317-4NE12	<p><b>CPU 317SN/NET - SPEED7 technology</b> DC 24V, 2MByte work memory expandable up to 8MByte (50% program/50% data), MPI, MMC slot, real-time clock, SPEED-Bus <b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PU/OP communication, Ethernet-CP 343, S7 communication, RFC1006, H1, TCP/IP, UDP, up to 64 connections</p>

## POWER SUPPLY



Fig.: 307-1BF70

307-1FB70	<p><b>PS 307 - Power supply - SPEED7</b> DC 24V, 6...12A, for SPEED-Bus</p>
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## DIGITAL INPUT MODULES



Fig.: 321-1BH70

321-1BH70	<p><b>SM 321S - FAST Digital input - SPEED-Bus</b> DI 16xDC 24V, parameterizable 2,56µs...40ms</p>
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## DIGITAL OUTPUT MODULES



Fig.: 322-1BH70

322-1BH70	<p><b>SM 322S - FAST Digital output - SPEED-Bus</b> DO 16xDC 24V, 0,5A, 100kHz</p>
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# VIPA System 300S - The High-Speed control system

## DIGITAL IN-/OUTPUT MODULES



Fig.: 323-1BH70

323-1BH70 **SM 323S - FAST Digital in-/output - SPEED-Bus**  
 DIO 16xDC 24V (DO 0,5A), DI parameterizable 2,56μs...40ms, DO 100kHz

## ANALOG INPUT MODULES



Abb.: 331-7AF70

331-7AF70 **SM 331S - FAST Analog input - SPEED-Bus**  
 AI 8x16Bit, ± 20mA (interrupt capability), 100μs, parameterizable  
 on request: 32kByte, Cache memory per channel to Trigger.

331-7BF70 **SM 331S - FAST Analog input - SPEED-Bus**  
 AI 8x16Bit, ± 10V(interrupt capability), 100μs, parameterizable  
 on request: 32kByte, Cache memory per channel to Trigger.

## FIELDBUS MASTER MODULES



Fig.: 342-1DA70



342-1CA70 **CP 342S CAN - CANopen master - SPEED-Bus**  
 1Mbit/s, up to 126 slaves

342-1DA70 **CP 342S DP - Profibus-DP master - SPEED-Bus**  
 12Mbit/s, up to 125 slaves

342-1IA70 **CP 342S IBS - Interbus master - SPEED-Bus**  
 500kbit/s, up to 128 slaves

## ETHERNET-CPs



Fig.: 343-1EX71

TCP/IP

343-1EX71 **CP 343S TCP/IP - Ethernet-CP 343 - SPEED-Bus**  
 S7 communication, RFC1006, H1, TCP/IP, UDP, up to 16 connections

# VIPA System 300S - The High-Speed control system

## MEMORY EXTENSIONS



Fig.: MCC - Memory extension card  
• 32kByte up to 8MByte

953-0KX10	<b>MMC - MultiMediaCard</b> Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
953-1LE00	<b>MCC - Memory extension card 32kByte</b> for SPEED7-CPUs, 16kByte program/16kByte data
953-1LF00	<b>MCC - Memory extension card 64kByte</b> for SPEED7-CPUs, 32kByte program/32kByte data
953-1LG00	<b>MCC - Memory extension card 128kByte</b> for SPEED7-CPUs, 64kByte program/64kByte data
953-1LH00	<b>MCC - Memory extension card 256kByte</b> for SPEED7-CPUs, 128kByte program/128kByte data
953-1LJ00	<b>MCC - Memory extension card 512kByte</b> for SPEED7-CPUs, 256kByte program/256kByte data
953-1LK00	<b>MCC - Memory extension card 1MByte</b> for SPEED7-CPUs, 512kByte program/512kByte data
953-1LL00	<b>MCC - Memory extension card 2MByte</b> for SPEED7-CPUs, 1MByte program/1MByte data
953-1LM00	<b>MCC - Memory extension card 4MByte</b> for SPEED7-CPUs, 2MByte program/2MByte data
953-1LP00	<b>MCC - Memory extension card 8MByte</b> for SPEED7-CPUs, 4MByte program/4MByte data

## ACCESSORIES



Fig.: DIN rail

342-0IA00	<b>CP 342 IBS - Configuration-/Diagnosis module</b> for 342-1A70, LC display, 7 buttons, cable 0,5m
390-1AB60	<b>DIN rail</b> length: 160mm
390-1AE80	<b>DIN rail</b> length: 482mm
390-1AF30	<b>DIN rail</b> length: 530mm
390-1AJ30	<b>DIN rail</b> length: 830mm
390-9AB60	<b>DIN rail</b> length: 160mm, ECO pack: 100 pieces
390-9AE80	<b>DIN rail</b> length: 482mm, ECO pack: 32 pieces
390-9AF30	<b>DIN rail</b> length: 530mm, ECO pack: 32 pieces
390-9AJ30	<b>DIN rail</b> 830mm, ECO pack: 20 pieces
390-9BC00	<b>DIN rail</b> 2000mm, ECO pack: 10 pieces



# VIPA System 300S - The High-Speed control system

## ACCESSORIES



Fig.: SPEED-Bus

- BP 391 - SPEED-Bus, DIN rail, 530mm with integrated High-SPEED rear panel bus with up to 10 expansion slots



Fig.: 20pol. Front connector

391-1AF10	<b>BP 391 - SPEED-Bus</b> DIN rail, 530mm with integrated High-SPEED rear panel bus for 2 expansion slots
391-1AF30	<b>BP 391 - SPEED-Bus</b> DIN rail, 530mm with integrated High-SPEED rear panel bus for 6 expansion slots
391-1AF50	<b>BP 391 - SPEED-Bus</b> DIN rail, 530mm with integrated High-SPEED rear panel bus for 10 expansion slots
392-1AJ00	<b>Front connector</b> 20pole with screw contact
392-1AM00	<b>Front connector</b> 40pole with screw contact
392-1BJ00	<b>Front connector</b> 20pole with cage clamps
392-1BM01	<b>Front connector</b> 40pole with cage clamps
392-9AJ00	<b>Front connector</b> 20pole with screw contact, ECO pack: 100 pieces
392-9AM00	<b>Front connector</b> 40pole with screw contact, ECO pack: 100 pieces
HB140D	<b>Manual System 300S, SPEED7, German</b>
HB140E	<b>Manual System 300S, SPEED7, English</b>

[www.SPEED7.de](http://www.SPEED7.de)

## VIPA System 500S - The PC control system



With the VIPA “Speed7 Technology”, system 500S is the fastest control system, programmable with STEP7 from Siemens, in the world. The maximum memory for program and data has already been integrated into the SPEED7 CPUs. Depending on the CPU type, the integrated memory can be expanded up to 8MByte respectively using the appropriate VIPA MCC - Memory extension card. The VIPA system 500S has been designed for operation in a PC slot with PCI interface. An OPC server for communication between CPU and PC is included in the scope of delivery. Peripherals are connected through the integrated Profibus-DP-Master interface. The CPUs are equipped with an Ethernet interface for PU/OP communication. The CPU 517S/NET has an additional CP343 for TCP/IP communication. Owing to their high performance (Speed7 Technology) and their scaleable memory, the CPUs are suitable for complex control tasks.



Control system programmable with STEP7 from Siemens

### Features of VIPA System 500S:

- Programmable with WinPLC7 from VIPA
- Programmable with STEP7 from Siemens
- Integrated work memory – operation is possible without additional memory card!
- Flexible extension of the memory using a memory extension card (MCC) for the desired upgrade
- Integrated battery backed RAM memory
- Real-time clock
- Supports standard MMC cards for saving of program and data
- Ethernet-, Profibus-DP and MPI interface on board
- OPC server included
- 24 months warranty
- UL-standard certification



# VIPA System 500S - The PC control system

## PLC-CPU's



Fig.: 517-2AJ00



515-2AJ00	<p><b>CPU 515S/DPM - SPEED7 technology</b> external DC 24V power supply, 1MByte work memory expandable up to 2MByte (50% program/50% data), MP²I, MMC slot, real-time clock</p> <p><b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves, PCI-Ethernet interface for PU/OP communication, incl. SW860R OPC server (SW860R please order separately)</p>
517-2AJ00	<p><b>CPU 517S/DPM - SPEED7 technology</b> external DC 24V power supply, 2MByte work memory expandable up to 8MByte (50% program/50% data), MP²I, MMC slot, real-time clock</p> <p><b>Interface:</b> Profibus-DP master, 12Mbit/s, up to 125 slaves, PCI-Ethernet interface for PU/OP communication, incl. SW860R OPC server (SW860R please order separately)</p>
517-4NE00	<p><b>CPU 517S/NET - SPEED7 technology</b> external DC 24V power supply, 2MByte work memory expandable up to 8MByte (50% program/50% data), MP²I, MMC slot, real-time clock</p> <p><b>Interface:</b> Profibus-DP-Master, 12Mbit/s, up to 125 slaves, PCI-Ethernet interface for PU/OP communication, incl. SW860R OPC-Server (SW860R please order separately)</p> <p><b>2. Slot:</b> Ethernet-CP 543, S7 communication, RFC1006, H1, TCP/IP, UDP, up to 16 connections</p>

## MEMORY EXTENSIONS



Fig.: MCC - Memory extension card  
• 32kByte up to 8MByte

953-0KX10	<p><b>MMC - MultiMediaCard</b> Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)</p>
953-1LE00	<p><b>MCC - Memory extension card 32kByte</b> for SPEED7-CPU's, 16kByte program/16kByte data</p>
953-1LF00	<p><b>MCC - Memory extension card 64kByte</b> for SPEED7-CPU's, 32kByte program/32kByte data</p>
953-1LG00	<p><b>MCC - Memory extension card 128kByte</b> for SPEED7-CPU's, 64kByte program/64kByte data</p>
953-1LH00	<p><b>MCC - Memory extension card 256kByte</b> for SPEED7-CPU's, 128kByte program/128kByte data</p>
953-1LJ00	<p><b>MCC - Memory extension card 512kByte</b> for SPEED7-CPU's, 256kByte program/256kByte data</p>
953-1LK00	<p><b>MCC - Memory extension card 1MByte</b> for SPEED7-CPU's, 512kByte program/512kByte data</p>
953-1LL00	<p><b>MCC - Memory extension card 2MByte</b> for SPEED7-CPU's, 1MByte program/1MByte data</p>
953-1LM00	<p><b>MCC - Memory extension card 4MByte</b> for SPEED7-CPU's, 2MByte program/2MByte data</p>
953-1LP00	<p><b>MCC - Memory extension card 8MByte</b> for SPEED7-CPU's, 4MByte program/4MByte data</p>

## ACCESSORIES

HB145D	<b>Manual System 500S, SPEED7, German</b>
HB145E	<b>Manual System 500S, SPEED7, English</b>

# HMI

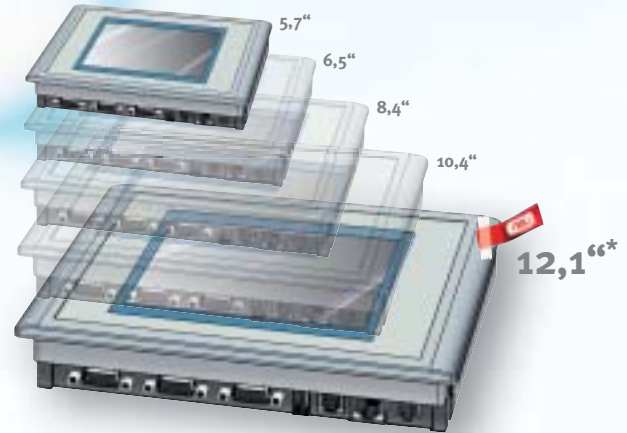


With display sizes of 5,7" to 12,1", Windows® CE 5.0 operating system and visualization software, the VIPA Touch Panels provide universally desirable solutions. The Touch Panels can also be installed with Windows® CE 5.0, Windows® CE 5.0 Professional and with MoviconX Real Flexible or zenOn 6.22. The VIPA Commander Compact CC 03 with double spaced display, integrated CPU and I/O expansion capacity is the ideal solution for smaller control and operator tasks. The VIPA Operator Panel OP 03 and the Text Display TD 03 are universal operator panels for application with VIPA Systems and other control systems via MPI interface.

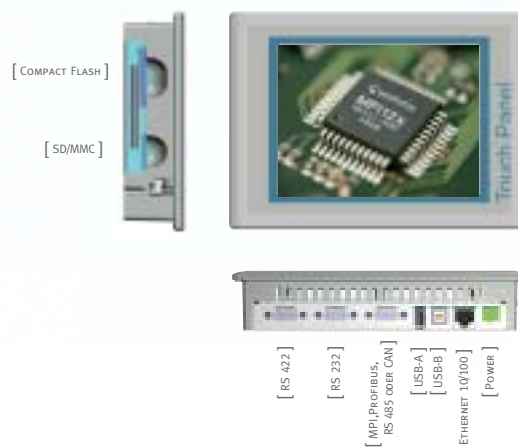


## Features HMI:

- Display sizes: 5,7" – 12,1"
- Display types: STN LCD monochrome and TFT color
- Processor: XSCALE 520MHz or 800MHz
- Memory: 1GByte integrated memory expandable via SD, MMC and CF card
- Interfaces: RS232-, RS485-, RS422-, MPI-, Profibus-DP Slave, Ethernet RJ45-, USB-A- and USB-B-interfaces on board (according to type)
- Operating system: Windows® CE 5.0 included, optionally Windows® CE 5.0 Professional Plus
- Visualization system – including MoviconX Real Flexible or zenOn 6.22
- CE and UL certification
- Worldwide availability
- 24months warranty



\*coming soon



LINES DISPLAY



Fig.: 603-1CC21



Fig.: 603-10P00



Fig.: 603-1TD00



603-1CC21	<p><b>CC 03 - CommanderCompact</b>                  DC 24V, 2x 20 characters display, integrated PLC-CPU, 16/24kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock  <b>Periphery:</b>                  DI 16xDC 24V, DO 16xDC 24V, 0,5A on board, potential separated, up to 4 I/O expansion modules via periphery expansion cable</p>
603-2CC21	<p><b>CC 03DP - CommanderCompact</b>                  DC 24V, 2x 20 characters display, integrated PLC-CPU, 16/24kByte work/load memory, MP<sup>2</sup>I, MMC slot, real-time clock  <b>Interface:</b>                  Profibus-DP slave, 12Mbit/s, address 1...125  <b>Periphery:</b>                  DI 16xDC 24V, DO 16xDC 24V, 0,5A on board, potential separated, up to 4 I/O expansion modules via periphery expansion cable</p>
603-10P00	<p><b>OP 03 - Operator Panel</b>                  DC 24V, 2x 20 characters display, 256kByte operator memory, 4096 variables, for application at VIPA CPUs with MP<sup>2</sup>I interface and with STEP7 programmable CPUs from Siemens, incl. programming cable 2,5m</p>
603-10P10	<p><b>OP 03 - Operator Panel</b>                  DC 24V, 2x 20 characters display (GB, RU, GER without umlaut), 256kByte operator memory, 4096 variables, for application at VIPA CPUs with MP<sup>2</sup>I interface and with STEP7 programmable CPUs from Siemens, incl. programming cable 2,5m</p>
603-1TD00	<p><b>TD 03 - Text Display</b>                  DC 24V, 2x 20 characters display for application at VIPA CPUs with MP<sup>2</sup>I interface and with STEP7 programmable CPUs from Siemens, incl. programming cable 2,5m and SW610 TD-Wizard parameterization software (SW610 please order separately)</p>

TOUCH PANELS



Fig.: Touch Panel



605-1BC00	<p><b>Touch Panel TP605CQ</b>                  DC 24V, 5,7" QVGA, TFT color, 520MHz, MPI/Profibus-DP, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)</p>
605-1BC40	<p><b>Touch Panel TP605CQ CAN</b>                  DC 24V, 5,7" QVGA, TFT color, 520MHz, CAN interface, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately), CAN driver for zenOn-Runtime in preparation</p>
605-1BL00	<p><b>Touch Panel TP605LQS</b>                  DC 24V, 5,7" QVGA, LCD monochrome, 520MHz, MPI/Profibus-DP, USB-B, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)</p>
605-1BL30	<p><b>Touch Panel TP605LQE</b>                  DC 24V, 5,7" QVGA, LCD monochrome, 520MHz, Ethernet RJ45, USB-B, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)</p>
605-1BM00	<p><b>Touch Panel TP605MQ</b>                  DC 24V, 5,7" QVGA, LCD monochrome, 520MHz, MPI/Profibus-DP, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)</p>

# HMI

## TOUCH PANELS



Fig.: Touch Panel

606-1BCoo	<b>Touch Panel TP606C</b> DC 24V, 6,5" VGA, TFT color, 520MHz, MPI/Profibus-DP, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)
606-1BC4o	<b>Touch Panel TP606C CAN</b> DC 24V, 6,5" VGA, TFT color, 520MHz, CAN interface, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately), CAN driver for zenOn-Runtime in preparation
608-1BCoo	<b>Touch Panel TP608C</b> DC 24V, 8,4" SVGA, TFT color, 520MHz, MPI/Profibus-DP, RS232, RS422/485, USB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)
608-1BCo1	<b>Touch Panel TP608C</b> DC 24V, 8,4" SVGA, TFT color, 800MHz, MPI/Profibus-DP, RS232, RS422/485, USB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW661 Windows CE 5.0 Professional Plus and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)
608-1BC4o	<b>Touch Panel TP608C CAN</b> DC 24V, 8,4" SVGA, TFT color, 520MHz, CAN interface, RS232, RS422/485, USB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately), CAN driver for zenOn-Runtime in preparation
610-1BCoo	<b>Touch Panel TP610C</b> DC 24V, 10,4" SVGA, TFT color, 520MHz, MPI/Profibus-DP, RS232, RS422/485, 2x USB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)
610-1BCo1	<b>Touch Panel TP610C</b> DC 24V, 10,4" SVGA, TFT color, 800MHz, MPI/Profibus-DP, RS232, RS422/485, 2x USB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW661 Windows CE 5.0 Professional Plus and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)
610-1BC4o	<b>Touch Panel TP610C CAN</b> DC 24V, 10,4" SVGA, TFT color, 520MHz, CAN interface, RS232, RS422/485, 2xUSB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately), CAN driver for zenOn-Runtime in preparation
612-1BCoo	<b>Touch Panel TP612C</b> DC 24V, 12,1" SVGA, TFT color, 520MHz, MPI/Profibus-DP, 2xRS232, RS422/485, 2x USB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)
612-1BCo1	<b>Touch Panel TP612C</b> DC 24V, 12,1" SVGA, TFT color, 800MHz, MPI/Profibus-DP, 2xRS232, RS422/485, 2x USB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW661 Windows CE 5.0 Professional Plus and Runtime SW925 MoviconX Real Flexible or SW93602 zenOn 6.22 (Software please order separately)

## VIPA IQ HOME ZONE



Fig.: VIPA IQ Home Zone

HZ608-1BCoo	<b>VIPA IQ Home Zone HZ608C</b> DC 24V, 8,4" SVGA, TFT color, MPI/Profibus-DP, RS232, RS422/485, USB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW936 zenOn 6.22 (Software please order separately)
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MEMORY EXTENSIONS



Fig.: CompactFlash for Touch Panels  
• 64MByte up to 1GByte



Fig.: SD Card for Touch Panels  
• 64MByte up to 1GByte

574-2AD00	<b>CF - CompactFlash Memory Card 64MByte</b> for VIPA Touch Panels
574-2AE00	<b>CF - CompactFlash Memory Card 128MByte</b> for VIPA Touch Panels
574-2AF00	<b>CF - CompactFlash Memory Card 256MByte</b> for VIPA Touch Panels
574-2AG00	<b>CF - CompactFlash Memory Card 512MByte</b> for VIPA Touch Panels
574-2AH00	<b>CF - CompactFlash Memory Card 1GByte</b> for VIPA Touch Panels
953-1SD00	<b>SD - SecureDisk Memory Card 64MByte</b> for VIPA Touch Panels
953-1SE00	<b>SD - SecureDisk Memory Card 128MByte</b> for VIPA Touch Panels
953-1SF00	<b>SD - SecureDisk Memory Card 256MByte</b> for VIPA Touch Panels
953-1SG00	<b>SD - SecureDisk Memory Card 512MByte</b> for VIPA Touch Panels
953-1SH00	<b>SD - SecureDisk Memory Card 1GByte</b> for VIPA Touch Panels
193-oKA00	<b>ME 193A - memory expansion</b> total 24/32kByte work/load memory for System 100V-CPU/CC 03. Please order the memory expansion together with the CPU or CC 03. The memory expansion will be carried out at VIPA.
193-oKB00	<b>ME 193B - memory expansion</b> total 32/40kByte work/load memory for System 100V CPU/CC 03. Please order the memory expansion together with CPU or CC 03. The memory expansion will be carried out at VIPA.

ACCESSORIES



Fig.: 660-oKB00  
Periphery expansion cable

574-1AD00	<b>Protective foil TP605/TP606</b> for Touch Panel 5,7" and 6,5", 10 pieces
574-1AD10	<b>Protective foil TP608/TP610</b> for Touch Panel 8,4" and 10,4", 10 pieces
660-oKB00	<b>Periphery expansion cable CC 03</b> for up to 4 expansion modules EM 123 or System 200V module, 0,5m
670-oKB00	<b>OP/AG-cable 0°/90° with PG-/Diagnostic port</b> for VIPA CC 03, OP 03, TD 03
670-oKB01	<b>OP/AG-cable 90°/90° with PG-/Diagnostic port</b> for VIPA CC 03, OP 03, TD 03
670-oKB10	<b>USB-programming cable</b> for Touch Panels with MoviconX Real Flexible, 3,0m
670-oKB20	<b>Ethernet programming cable</b> for Touch Panels with MoviconX Real Flexible or zenOn 6.22, 3,0m
HB116D	<b>Manual TD 03/OP 03/CC 03</b> , German
HB116E	<b>Manual TD 03/OP 03/CC 03</b> , English
HB160D	<b>Manual TouchPanel</b> , German
HB160E	<b>Manual TouchPanel</b> , English
HZ608-oUP00	<b>VIPA IQ Home Zone HZ608C</b> , flush mounting case

## VIPA Software



The VIPA Software options offer effective and comfortable tools for programming and parameterization of VIPA systems and other automation concepts. The whole VIPA Software assortment can be found on the ToolDemo-CD (SW810) which offers demo versions free of charge, upgradable to full licensing when required.



### VIPA Software Overview:

- WinPLC7 – PLC programming software and simulation tool
- WinNCS – Parameterization tool for TCP/IP and Profibus-DP
- WinCoCT – Parameterization tool for VIPA CANopen Master
- OP-Manager – Parameterization tool for OP 03
- TD-Wizard – Parameterization tool for TD 03
- OPC-Server – Software interface for data exchange via MPI, TCP/IP and RFC1006
- MoviconX – Visualization software – Editor and Runtime
- PLC Agent-pro – PLC Analyzer for VIPA controllers and S5/S7 controllers from Siemens
- WinLP – labelling software for VIPA System 200V
- Eplan Macros – Technical information and drawings on Vipa systems 100V, 200V, 300V and 300S
- Handling blocks – Libraries for Vipa systems and components
- Drivers – Device support for VIPA IPC, Slot PLC and communication processors
- Demo projects – Configurations for Vipa system 200V and 300V
- GSD/EDS files – Configuration files for Profibus-DP and CANopen
- How-to-do's – Information for initial set-up





## OPC-SERVER



Fig.: OPC-Server

SW860M	<b>OPC server MPI driver licence</b> Company licences or multiple licences upon request!
SW860R	<b>OPC server RFC1006-driver licence</b> Company licences or multiple licences upon request!
SW860T	<b>OPC server TCP/IP-driver licence (Read/Write)</b> Company licences or multiple licences upon request!

## PROGRAMMING SOFTWARE



Fig.: WinPLC

SW873	<b>WinPLC7 - complete version, German, Tool for STEP7 from Siemens</b> programming-, test-, diagnosis- and simulation software for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300 from Siemens, STL-, FDB- and LAD-programming. Company licences or multiple licences upon request!
SW873E	<b>WinPLC7 - complete version, English, Tool for STEP7 from Siemens</b> programming-, test-, diagnosis- and simulation software for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300 from Siemens, STL-, FDB- and LAD-programming. Company licences or multiple licences upon request!
SW873KEY	<b>WinPLC7 - complete version, Tool for STEP7 from Siemens</b> programming-, test, diagnosis and simulation software for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300 from Siemens, STL-, FDB- and LAD-programming. Company licences or multiple licences upon request! <a href="http://www.winplc7.com/v4/vipa-download.htm">http://www.winplc7.com/v4/vipa-download.htm</a>
SW879	<b>WinPLC7 - complete version, dongle, Tool for STEP7 from Siemens</b> programming-, test, diagnosis and simulation software for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300 from Siemens, STL-, FDB- and LAD-programming. Company licences or multiple licences upon request!

## PARAMETERIZATION SOFTWARE



Fig.: TD-Wizard

SW260	<b>TP6xx PLC-Tool-CE</b> Load-, test-, diagnosis tool for S7 controllers on VIPA Touch Panels with Windows CE®5.0, S7 communication with MPI, Profibus-DP and Ethernet, also usable with Commandline-Interface.
SW355	<b>FM 355-Projecting package</b> for configuration and parameterization of VIPA FM 355 temperature controller (Parameter/configuration transfer: PC/PG > controller module)
SW355R	<b>FM 355-Projecting package Remote</b> for configuration and parameterization of VIPA FM 355 temperature controller (Parameter/configuration transfer: PC/PG > controller module (via network))
SW610	<b>TD-Wizard</b> parameterization tool for TD 03
SW880	<b>WinNCS - Universal parameterization- and configuration tool</b> (Windows 98SE/ME/NT/2000/XP) - Components engineering - Ethernet protocols TCP/IP, SINEC H1, IPK, RFC1006 - Profibus-DP (2BF)
SW900	<b>WinCoCT</b> CANopenConfiguration-Tool
SW910	<b>OP-Manager</b> Parameterization tool for OP 03

# VIPA Software

## SYSTEM SOFTWARE



SW660	<b>Windows® CE 5.0</b> only in combination with VIPA Touch Panels (installed)
SW661	<b>Windows® CE 5.0 Professional Plus</b> only in combination with VIPA Touch Panels (installed)

## HMI-SOFTWARE



SW925	<b>MoviconX Runtime</b> (only in combination with VIPA Touch Panels)
SW93602	<b>zenOn 6.22 Runtime</b> 256 tags (only in combination with VIPA Touch Panels)



SW9360A2	<b>zenOn 6.22 Runtime-Upgrade</b> 256 tags up to 512 tags
SW936AB2	<b>zenOn 6.22 Runtime-Upgrade</b> 512 tags up to 1024 tags
SW936BC2	<b>zenOn 6.22 Runtime-Upgrade</b> 1024 tags up to 2048 tags
SW920	<b>MoviconX Editor</b> USB-Dongle for Windows® CE 5.0
SW93102	<b>zenOn 6.22 Editor</b> for Windows® CE 5.0, 256 Tags
SW9310A2	<b>zenOn 6.22 Editor-Upgrade</b> 256 up to 512 Tags
SW931AB2	<b>zenOn 6.22 Editor-Upgrade</b> 512 up to 1024 Tags
SW931BC2	<b>zenOn 6.22 Editor-Upgrade</b> 1024 up to 2048 Tags
SW931W	<b>zenOn 6.22 Editor, Dongle</b> for the clearing via dongle (please order the editor and, if necessary, an editor upgrade separately)
SW931U1	<b>zenOn Editor Version-Upgrade</b> 6.21 to 6.22

## ANALYSIS TOOL



Fig.: WinPLC-Analyzer

SW980	<b>WinPLC analysis tool</b> for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300/400 from Siemens, incl. driver
SW981	<b>WinPLC analysis tool</b> for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300/400 from Siemens (in combination with WinPLC7), incl. driver

## OTHER SOFTWARE



Fig.: ToolDemo-CD

SW800	<b>Manuals &amp; More</b> complete documentation on CD-Rom
SW810	<b>ToolDemo-CD</b> complete VIPA-Software collection: WinPLC7, MoviconX-Editor, OP-Manager, TD-Wizard, OPC server, WinCoCT, WinNCS, GSD-/EDS-files, handling blocks, driver, How-to-do's

## ACCESSORIES



Fig.: Manual

HB45D	<b>Manual OPC server, German</b>
HB45E	<b>Manual OPC server, English</b>
HB91D	<b>Manual WinNCS, German</b>
HB91E	<b>Manual WinNCS, English</b>
S7-Crash-kurs-EX	<b>Publication:</b> Practical introduction into PLC programming with simulation software WinPLC. Targeted at users looking for introduction into PLC programming software STEP7 and practical experience at the same time.

# VIPA Accessories



VIPA offers a wide range of accessories like programming, download or Profibus-DP cables, memory modules and Profibus-DP plugs with diagnosis.



## ACCESSORIES



Fig.: MC 951 Memory Card  
 • Flash Eprom, short, 16kByte up to 512kByte for the S7-300 from Siemens



Fig.: Standard Profibus cable  
 • FCC 2xAWG 22 - standard profibus cable, preset cable laying according to EN 50170, flame retardant according to VDE 0472, T804 inspection B, shell color violet

470-2AA00	<b>CM 470 - Adaptation capsule</b> for acceptance from two one-tier or one double-tier S5-135U modules from Siemens, interruptable
951-oKD00	<b>MC 951 - Memory Card 16kByte</b> for S7-300 from Siemens, Flash Eprom, short
951-oKE00	<b>MC 951 - Memory Card 32kByte</b> for S7-300 from Siemens, Flash Eprom, short
951-oKF00	<b>MC 951 - Memory Card 64kByte</b> for S7-300 from Siemens, Flash Eprom, short
951-oKG00	<b>MC 951 - Memory Card 128kByte</b> for S7-300 from Siemens, Flash Eprom, short
951-oKJ00	<b>MC 951 - Memory Card 512kByte</b> for S7-300 from Siemens, Flash Eprom, short
830-oLC00	<b>FCC 2xAWG 22 - Standard Profibus cable</b> Fixed installation according to EN 50170, flame retardant according to VDE 0472, T804 test type B, cable shell color violet, 100m ring
830-oLD00	<b>FCC 2xAWG 22 - Standard Profibus cable</b> Fixed installation according to EN 50170, flame retardant according to VDE 0472, T804 test type B, cable shell color violet, 200m ring
830-oLE00	<b>FCC 2xAWG 22 - Standard Profibus cable</b> Fixed installation according to EN 50170, flame retardant according to VDE 0472, T804 test type B, cable shell color violet, 500m on role
830-oLF00	<b>FCC 2xAWG 22 - Standard Profibus cable</b> Fixed installation according to EN 50170, flame retardant according to VDE 0472, T804 test type B, cable shell color violet, 1000m on role
950-oAD00	<b>USB adapter</b> for MMC programming (Windows 98SE/ME/2000/XP)

## ACCESSORIES

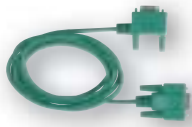


Fig.: VIPA „Green Cable“

- Programming and download cable, RS232/MPI 2,5m for VIPA CPUs 100V, 200V and 300V



Fig.: EasyConn PB90°/PB45°/PB0° -SubD-plug

- 12Mbit/s, metal case, PG-jack, insulation piercing, connection switchable termination resistor



PC/AG programming cable

- MPI/PPI-RS232-Adapter, external voltage supply, 3m
- MPI-USB-Adapter, 3m
- MPI-TCP/IP-Adapter, 3m
- MPI-cable with PG-diagnostic port 2,5m

950-oAD10	<b>PCMCIA adapter</b> for MMC programming
950-oKB00	<b>VIPA “Green Cable”</b> programming- and download cable, RS232/MPI, 2m for VIPA CPUs 100V, 200V and 300V
950-oKB01	<b>PC/AG programming cable</b> RS232-MPI-adapter, 3m
950-oKB10	<b>PC/AG programming cable</b> RS232-MPI/PPI adapter, LCD, 3m
950-oKB20	<b>PC/AG programming cable</b> RS232-MPI adapter, external DC 24V power supply, 1,3m
950-oKB30	<b>PC/AG programming cable</b> USB-MPI adapter, 3m
950-oKB40	<b>PC/AG programming cable</b> TCP/IP-MPI/Profibus adapter, 3m
950-oKB50	<b>PG/AG programming cable</b> MPI cable with PG-/diagnosis port, 2,5 m
972-oDP01	<b>EasyConn PB 90° - SubD plug</b> 12MBit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 90° outgoing cable
972-oDP10	<b>EasyConn PB 90° - SubD plug</b> 12MBit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 90° outgoing cable, bus diagnosis via LEDs
972-oDP20	<b>EasyConn PB 45° - SubD plug</b> 12MBit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 45° outgoing cable, bus diagnosis via LEDs
972-oDP30	<b>EasyConn PB 0° - SubD plug</b> 12MBit/s, metal case, insulation piercing connection, switchable termination resistor, 0° outgoing cable, bus diagnosis via LEDs
972-9DP01	<b>EasyConn PB 90° - SubD plug without LEDs</b> ECO pack: 100 pieces
972-9DP10	<b>EasyConn PB 90° - SubD plug with LEDs</b> ECO pack: 100 pieces
972-9DP20	<b>EasyConn PB 45° - SubD plug with LEDs</b> ECO pack: 100 pieces
972-9DP30	<b>EasyConn PB 0° - SubD plug with LEDs</b> ECO pack: 100 pieces
905-6AA00	<b>EasyStrip</b> Stripping tool for Profibus cable

# Supply and Delivery terms

## GENERAL

The general supply and delivery terms for products and services of the Electrical Industry published by ZVEI Frankfurt am Main are valid in their latest version as well as the addendum on extended retention of title. Court of jurisdiction: Erlangen.

The prices are quoted in Euro (€) ex works, without insurance, freight and packaging. They do not include any V.A.T.-rates. Packaging cannot be taken back.

VAT will be indicated separately according to legal regulations and at the respectively valid rate.

## MINIMUM ORDER VALUE

The minimum value for each order amounts to net € 150,-. Orders with a value less than € 150,- will be charged with a handling fee of € 20,- to cover costs.

## VALIDITY

With the date this price list comes into effect all former prices are no longer valid.

The price list may be subject to changes, especially as far as the values, dimensions and weights are concerned, if nothing different is noted explicitly.

The goods will be invoiced at the date of dispatch.

## MANUALS

When ordering modules, you will receive the corresponding documentation free of charge in PDF format on CD-ROM. If you wish to receive hard copies of manuals, please order them separately.

The latest versions of all our manuals can be found on our VIPA FTP server.

For further information please contact us:

Domestic sales: +49 - (0) 9132 / 744 - 160

Export sales: +49 - (0) 9132 / 744 - 165

Homepage: <http://www.vipa.de>

FTP-Server: <ftp://ftp.vipa.de>

(Please consider that your FTP server should be set to passive mode.)

## LEGEND

Limited/without discount: %

MP<sup>2</sup>1 = MPI + RS232 (all VIPA CPUs except SPEED7)

MPI = all SPEED7 CPUs

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Version: 03.2008 EK007201





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