

2017/18 System Summary

for specialists in automation and control technology



Welcome to VIPA Controls



250 EMPLOYEES

IN OVER **60** COUNTRIES

over **30** YEARS OF EXPERIENCE

3200 DIFFERENT ARTICLES

250,000 INSTALLED CPUs

VIPA MICRO: The System MICRO is a very compact and extreme fast Micro-PLC system. It put an exclamation point in design and shows completely new ways in displaying operations and status.

06



SLIO:

The System SLIO is a variable PLC and I/O system for centralized and decentralized applications

10



100V:

The System 100V is a Micro-PLC system from VIPA.

20



200V:

The System 200V is a highly compact and modular control system for centralized and decentralized applications.

24



300S+:

With the SPEED7 technology, System 300S+ is one of the fastest control system in the world programmable with STEP7.

32



HMI:

Our Touch Panels with display sizes of 4,3" to 15" and our Panel PCs with sizes of 10,1", 15" and 21" provide universally desirable solutions.

42



Teleservice:

The VIPA Teleservice modules are suitable for very easy and safe remote access to your plant with state of the art VPN technology in combination with high performance hardware.

50



Safety:

Samos PRO is a compact and modular constructed safety micro controller for fast monitoring and control of your applications in machinery and plant construction.

54



Solutions: VIPA Green Solution offers an energy management system, with which a certification in accordance with DIN EN ISO 50001 for the use of energy saving potentials in your business is implemented in the simplest way.

58



Software:

For comfortable programming and parameterization.

62



Accessories:

VIPA offers a wide range of accessories like programming cable, download cable, or PROFIBUS cable as well as PROFIBUS connectors with diagnosis function.

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Appendix:

List of our worldwide distributors and branch offices as well as terms and conditions of sale and delivery.

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„From a producer of components to a supplier of systems“

worldwide
first Inrack-PC

VIPA 500S PC control system for complex tasks. And also one of the fastest control systems programmable with STEP7

VIPA 300S+ One of the fastest control systems programmable with STEP7

VIPA 200V Modular control system for central and decentral applications

VIPA SLIO one of the most efficient and most modern decentral I/O systems in the world

1985



Foundation of **VIPA GmbH**
by Wolfgang Seel

Foundation of
profichip GmbH



Move to the **new headquarters**
of VIPA and profichip in
Herzogenaurach



Winner of the innovation prize
„Initiative Mittelstand 2007“
for the SPEED7 technology

Milestones

Operating / monitoring devices

From two-line displays
to touch panels

Accessories

enhancing, linking,
optimizing

VIPA SLIO 013C

the new super class of
compact CPUs

Software for convenient
programming and
parameterization

**VIPA SLIO Motion
Controller** with integrated
Motion Control, Sigma-7
servo drives

VIPA MICRO
the smart and modular
control system



2017



YASKAWA

Winner of the industry prize
„Industrie Preis 2008“ for
the SPEED7 technology

Honoured as top
innovator by **Top100**

European further
education award in gold

awarded with the **Jobstar** of
Metropolitan Region Nuremberg

Majority shareholding of
YASKAWA Europe GmbH
at the VIPA GmbH





| VIPA MICRO

MICRO

Order no.	Name/Description
CPUs STEP7 programmierbar, C-Klasse	
M13-CCF0000	VIPA CPU M13C - powered by SPEED7 - work memory [KB]: 64 - 128 - onboard: 16 DI / 12 DO / 2 AI [voltage 0...10 V] / 4 Counter / 2 [PWM/Pulse Train] - interface [2x RJ45]: active Ethernet PG/OP communication with DHCP support, switch, ModbusTCP master/slave, openCommunication, SmartPROFINET (iDevice and Control up to 8 Device) - optional [2x RS485]: MPI, PROFIBUS slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave - web server - SD/MMC card slot with locking, up to 8 expansion modules, configurable via SPEED7 Studio, SIMATIC Manager and TIA Portal
FeatureSets	
955-C000S00	VIPASetCard 002 (VSC) PROFIBUS slave
955-C000020	VIPASetCard 003 (VSC) 64 KB
955-C000S20	VIPASetCard 005 (VSC) 64 KB - PROFIBUS slave
Memory modules for other components	
955-0000000	VIPA SD-Card (VSD) 512 MB - blank
Digital input modules	
M21-1BH00	SM M21 - Digital input 16 inputs
Digital output modules	
M22-1BH00	SM M22 - Digital output 16 outputs - Output current 0.5 A
M22-1HF10	SM M22 - Digitale output 8 outputs - Output current, 2A relay
Digital in/output modules	
M23-1BH00	SM M23 - Digital output 8 inputs 8 outputs - Output current 0.5 A
Analog input modules	
M31-1CD50	SM M31 - Analoge input 4 x AI 16 Bit - voltage 0/1...10 V +-10 V - current 0/4...20 mA - R 0...3000 Ohm, RTD PT100, PT1000, NI100, NI1000 in 2/3/4 conductor measurement - TC Typ J, K, N, R, S, T, B, C, E, L and U +-80 mV
Analog output modules	
M32-1BD40	SM M32 - Analoge output - AO 4x12Bit - I 0/4...20mA
M32-1BD70	SM M32 - Analoge output - AO 4x12Bit - U 0/1...10V_+-10V
Erweiterung	
M09-0CB00	Micro Extension 2xRS485 Interface [1x RS422/RS485]: PtP: ASCII, STX/ETX, 3964(R), USS Master, Modbus Master/SlaveInterface [1x RS485]: MPI, PROFIBUS Slave

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SLIO

Order no.	Name/Description
CPUs STEP7 programmable, standard	
014-CEF0R01	VIPA CPU 014 - powered by SPEED7 - work memory [KB]: 128 - 256 - interface [2x RJ45]: active Ethernet PG/OP communication with DHCP support, switch, ModbusTCP master/slave, openCommunication, SmartPROFINET (iDevice and Control up to 8 Device) - interface [RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - optional: PROFIBUS master/slave - web server - SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC Manager and TIA Portal
CPUs STEP7 programmierbar, C-Klasse	
013-CCF0R00	VIPA CPU 013C - powered by SPEED7 - work memory [KB]: 64 - 128 - onboard 16 DI / 12 DO / 2 AI [voltage 0...10 V] / 4 Counter / 2 [PWM/Pulse Train] - interface [2x RJ45]: active Ethernet PG/OP communication with DHCP support, switch, ModbusTCP master/slave, openCommunication, SmartPROFINET (iDevice and Control up to 8 Device) - interface [RS485]: MPI, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave - optional: PROFIBUS master/slave - web server - SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC Manager and TIA Portal
CPUs STEP7 programmable, PROFINET	
015-CEFPR01	VIPA CPU 015PN - powered by SPEED7 - work memory [KB]: 256 - 512 - integrated PROFINET controller - interface [2x RJ45]: PROFINET, ModbusTCP master/slave, openCommunication, SmartPROFINET (iDevice and Control up to 8 Device) - interface [2x RJ45]: active Ethernet PG/OP communication with DHCP support, switch - interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - optional: PROFIBUS master/slave - web server - SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC Manager and TIA Portal
017-CEFPR00	VIPA CPU 017PN - powered by SPEED7 - work memory [KB]: 512 - 2.048 - integrated PROFINET controller - interface [2x RJ45]: PROFINET, ModbusTCP master/slave, openCommunication, SmartPROFINET (iDevice and Control up to 8 Device) - interface [2x RJ45]: active Ethernet PG/OP communication with DHCP support, switch - interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - optional: PROFIBUS master/slave - web server - SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC Manager and TIA Portal
CPUs STEP7 programmable, EtherCAT	
015-CEFN000	VIPA CPU 015N - powered by SPEED7 - SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC manager - work memory [KB]: 256 - 512 - integrated Ethernet CP EtherCAT controller - Interface [1x RJ45]: EtherCAT-Master - Interface [1x RJ45]: active Ethernet CP, ModbusTCP master/slave, openCommunication - Interface [2x RJ45]: active PG/OP-communication with DHCP support - interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - optional: integrated motion controller 4/8/20 axes, PROFIBUS master/slave - web server
FeatureSets	
955-C000M00	VIPASetCard 001 (VSC) PROFIBUS master
955-C000S00	VIPASetCard 002 (VSC) PROFIBUS slave
955-C000020	VIPASetCard 003 (VSC) 64 KB
955-C000M20	VIPASetCard 004 (VSC) 64 KB - PROFIBUS master
955-C000S20	VIPASetCard 005 (VSC) 64 KB - PROFIBUS slave



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Order no.	Name/Description
955-C000030	VIPASetCard 006 (VSC) ‣ 128 KB
955-C000M30	VIPASetCard 007 (VSC) ‣ 128 KB ‣ PROFIBUS master
955-C000S30	VIPASetCard 008 (VSC) ‣ 128 KB ‣ PROFIBUS slave
955-C000040	VIPASetCard 009 (VSC) ‣ 256 KB
955-C000M40	VIPASetCard 010 (VSC) ‣ 256 KB ‣ PROFIBUS master
955-C000S40	VIPASetCard 011 (VSC) ‣ 256 KB ‣ PROFIBUS slave
955-C000050	VIPASetCard 012 (VSC) ‣ 512 KB
955-C000M50	VIPASetCard 013 (VSC) ‣ 512 KB ‣ PROFIBUS master
955-C000060	VIPASetCard 014 (VSC) ‣ 1 MB
955-C000M60	VIPASetCard 015 (VSC) ‣ 1 MB ‣ PROFIBUS master
955-C000070	VIPASetCard 016 (VSC) ‣ 1.5 MB
955-C000M70	VIPASetCard 017 (VSC) ‣ 1.5 MB ‣ PROFIBUS master
955-C0ME040	VIPASetCard 031 (VSC) ‣ 256 KB ‣ motion control 4-axes
955-C0NE040	VIPASetCard 032 (VSC) ‣ 256 KB ‣ motion control 8-axes
955-C0PE040	VIPASetCard 033 (VSC) ‣ 256 KB ‣ motion control 20-axes
Memory modules for other components	
955-0000000	VIPA SD-Card (VSD) ‣ 512 MB ‣ blank
Clamp modules	
001-1BA00	CM 001 - Potential distributor module ‣ 8xDC 24 V clamps
001-1BA10	CM 001 - Potential distributor module ‣ 8xDC 0 V clamps
001-1BA20	CM 001 - Potential distributor module ‣ 4xDC 24 V, 4xDC 0 V clamps
Power modules	
007-0AA00	PM 007 - Power-Modul ‣ Power supply DC 24 V ‣ (Only as a spare part for CPU and fieldbus module)
007-1AB00	PM 007 - Power module ‣ Power supply DC 24 V, 10 A ‣ Reverse polarity protection ‣ Overvoltage protection
007-1AB10	PM 007 - Power module ‣ Power supply DC 24 V, 4 A ‣ Power supply DC 24 V for bus supply 5 V, 2 A ‣ Reverse polarity protection ‣ Overvoltage protection



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Order no.	Name/Description
Digital input modules	
021-1BB00	SM 021 - Digital input ‣ 2 inputs
021-1BB10	SM 021 - Digital input ‣ 2 fast inputs ‣ Input filter time delay parameterizable 2 µs...4 ms
021-1BD00	SM 021 - Digital input ‣ 4 inputs
021-1BD10	SM 021 - Digital input ‣ 4 fast inputs ‣ Input filter time delay parameterizable 2 µs...4 ms
021-1BD40	SM 021 - Digital input ‣ 4 inputs ‣ Connect 2/3-wire
021-1BD50	SM 021 - Digital input ‣ 4 inputs ‣ Active low input
021-1BD70	SM 021 - Digital input ‣ 4 fast inputs ‣ input filter, time delay parameterizable 2 µs...3ms ‣ ETS function with µsec time stamp
021-1BF00	SM 021 - Digital input ‣ 8 inputs
021-1BF01	SM 021 - Digital input ‣ 8 Inputs, 0.5ms
021-1BF50	SM 021 - Digital input ‣ 8 inputs ‣ Active low input
021-1DF00	SM 021 - Digital input ‣ 8 inputs ‣ diagnosis of wiring errors
021-1SD00	SM 021 - Digital input ‣ 4 inputs ‣ Safety
Digital output modules	
022-1BB00	SM 022 - Digital output ‣ 2 outputs ‣ Output current 0.5 A
022-1BB90	SM 022 - Digital output ‣ 2 outputs ‣ PWM till 40 kHz
022-1BD00	SM 022 - Digital output ‣ 4 outputs ‣ Output current 0.5 A
022-1BD20	SM 022 - Digital output ‣ 4 outputs ‣ Output current 2 A
022-1BD50	SM 022 - Digital output ‣ 4 Low-Side outputs ‣ Output current 0.5 A
022-1BD70	SM 022 - Digital output ‣ 4 outputs ‣ time stamp ‣ Output current 0.5 A
022-1BF00	SM 022 - Digital output ‣ 8 outputs ‣ Output current 0.5 A
022-1BF50	SM 022 - Digital output ‣ 8 Low-Side outputs ‣ Output current 0.5 A
022-1HB10	SM 022 - Digital output ‣ 2 relay outputs ‣ DC 30 V/ AC 230 V ‣ Output current 3 A



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Order no.	Name/Description
022-1HD10	SM 022 - Digital output ▶ 4 relay outputs ▶ DC 30 V / AC 230 V ▶ Output current 1.8 A
022-1DF00	SM 022 - Digital output ▶ 8 outputs ▶ Output current 0.5 A ▶ diagnosis of wiring errors
022-1SD00	SM 022 - Digital output ▶ 4 outputs ▶ Safety ▶ Output current 0.5 A
Analog input modules	
031-1BB10	SM 031 - Analog input ▶ 2 inputs 12Bit ▶ Current 0(4)...20mA ▶ 2 wire
031-1BB30	SM 031 - Analog input ▶ 2 inputs 12Bit ▶ Voltage 0...10 V
031-1BB40	SM 031 - Analog input ▶ 2 inputs 12Bit ▶ Current 0(4)...20 mA
031-1BB60	SM 031 - Analog input ▶ 2 inputs 12Bit ▶ Current 0(4)...20mA ▶ 2 wire
031-1BB70	SM 031 - Analog input ▶ 2 inputs 12Bit ▶ Voltage -10 V...+10 V
031-1BB90	SM 031 - Analog input ▶ 2 inputs 16Bit ▶ Thermocouple type J, K, N, R, S, T, B, C, E, L ▶ Voltage -80mV...+80mV
031-1BD30	SM 031 - Analog input ▶ 4 inputs 12Bit ▶ Voltage 0...10 V
031-1BD40	SM 031 - Analog input ▶ 4 inputs 12Bit ▶ Current 0(4)...20 mA
031-1BD70	SM 031 - Analog input ▶ 4 inputs 12Bit ▶ Voltage -10 V...+10 V
031-1BD80	SM 031 - Analog input ▶ 4 inputs 16Bit ▶ 0 .. 3000 ohm resistance ▶ Resistance measurement with 2, 3, and 4-wires ▶ resistance temperature sender Pt100, Pt1000, NI100 and NI1000
031-1BF60	SM 031 - Analog input ▶ 8 inputs 12Bit ▶ Current 0(4)...20mA ▶ 2 wire
031-1BF74	SM 031 - Analog input ▶ 8 inputs 12Bit ▶ Voltage -10 V...+10 V
031-1CB30	SM 031 - Analog input ▶ 2 inputs 16Bit ▶ Voltage 0...10 V
031-1CB40	SM 031 - Analog input ▶ 2 inputs 16Bit ▶ Current 0(4)...20 mA
031-1CB70	SM 031 - Analog input ▶ 2 inputs 16Bit ▶ Voltage -10 V...+10 V
031-1CD30	SM 031 - Analog input ▶ 4 inputs 16Bit ▶ Voltage 0...10 V



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Order no.	Name/Description
031-1CD35	SM 031 - Analog input 4 inputs 16Bit - Voltage 0...10 V - reduced parameter bytes
031-1CD40	SM 031 - Analog input 4 inputs 16Bit - Current 0(4)...20 mA
031-1CD45	SM 031 - Analog input 4 inputs 16Bit - Current 0(4)...20 mA - reduced parameter bytes
031-1CD70	SM 031 - Analog input 4 inputs 16Bit - Voltage -10 V...+10 V
031-1LB90	SM 031 - Analog input 2 inputs 16Bit - Thermocouple typ J, K, N, R, S, T, B, C, E, L - Voltage -80mV...+80mV - requires less parameter bytes than module 031-1BB90
031-1LD80	SM 031 - Analog input 4 inputs 16Bit 0 .. 3000 ohm resistance - Resistance measurement with 2, 3, and 4-wires - requires less parameter bytes than module 031-1BD80 - resistance temperature sender Pt100, Pt1000, NI100 and NI1000
DMS-Module	
031-1CA20	SM 031 - Analog input - Direct connection of a resistor full bridge (DMS) or load cell 4- or 6-wire measurement 16 (24)Bit resolution - Auto/self calibration zero point and final value - Absolute exactness radical error $\pm 0,1\%$ ($\pm 0,01\%$) - Onboard power supply 2V5, 5V, 7V5, 10V and 12V
Energiemess-Module	
031-1PA00	Energy measurement terminal - voltage, current - frequency 230/400 V 1 A - remanent storage of the energy values diagnostic function - resolution measurement 24 Bit 3-phase and N-connector - electrical efficiency electrical work - harmonic harmonics - phases delay cos j
Analog output modules	
032-1BB30	SM 032 - Analog output 2 outputs 12Bit - Voltage 0...10 V
032-1BB40	SM 032 - Analog output 2 outputs 12Bit - Current 0(4)...20 mA
032-1BB70	SM 032 - Analog output 2 outputs 12Bit - Voltage -10 V...+10 V
032-1BD30	SM 032 - Analog output 4 outputs 12Bit - Voltage 0...10 V
032-1BD40	SM 032 - Analog output 4 outputs 12Bit - Current 0(4)...20mA
032-1BD70	SM 032 - Analog output 4 outputs 12Bit - Voltage -10 V...+10 V
032-1CB30	SM 032 - Analog output 2 outputs 16Bit - Voltage 0...10 V
032-1CB40	SM 032 - Analog output 2 outputs 16Bit - Current 0(4)...20 mA
032-1CB70	SM 032 - Analog output 2 outputs 16Bit - Voltage -10 V...+10 V



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Order no.	Name/Description
032-1CD30	SM 032 - Analog output ▶ 4 outputs 16Bit ▶ Voltage 0...10 V
032-1CD40	SM 032 - Analog output ▶ 4 outputs 16Bit ▶ Current 0(4)...20mA
032-1CD70	SM 032 - Analog output ▶ 4 outputs 16Bit ▶ Voltage -10 V...+10 V
RS232/422/485 and other CPs	
040-1BA00	CP 040 - Communication processor ▶ RS232 interface ▶ protocols ASCII, STX/ETX, 3964(R) and ModbusRTU (master, slave)
040-1CA00	CP 040 - Communication processor ▶ RS422/485 interface ▶ protocols ASCII, STX/ETX, 3964(R) and ModbusRTU (master, slave)
Positiner-Module	
054-1BA00	FM054 - Stepper motor module ▶ 1-channel with feedback ▶ 4 inputs/outputs DC 24V, which can be used as encoder inputs ▶ Power control frequency 32 kHz ▶ Step pattern 64 times microstepping
054-1CB00	FM054 - DC motor module ▶ 2-channel with feedback ▶ 4 inputs/outputs DC 24V, which can be used as encoder inputs ▶ PWM clock frequency 32 kHz
054-1DA00	FM054 - Pulse Train Output Module ▶ 1-channel RS422 with feedback ▶ 4 configurable in-/outputs I/O1 ... I/O4 ▶ Operating modes: CW/CCW, PLS/DIR, ENC/SIM
SSI modules	
050-1BS00	FM 050S - SSI module ▶ SSI - Encoder ▶ Master or slave mode ▶ Encoder frequency 125 kHz...2 MHz ▶ µs time stamp for encoder value
Counter modules	
050-1BA00	FM 050 - Counter module ▶ 1 Counter 32 Bit (AB) ▶ DC 24 V
050-1BA10	FM 050 - Counter module ▶ 1 Counter 32 Bit (AB) ▶ DC 5 V (difference signal)
050-1BB00	FM 050 - Counter module ▶ 2 Counter 32 Bit (AB) ▶ DC 24 V
050-1BB30	FM 050 - Counter module Eco ▶ 2 Counter 32 Bit (AB) ▶ DC 24 V
050-1BB40	FM 050 - Frequency measurement ▶ 2 channels 24 Bit ▶ DC 24 V
Fieldbus slave modules without I/Os	
053-1CA00	IM 053CAN - CANopen slave ▶ CANopen slave ▶ 16 Rx and 16 Tx PDOs ▶ 2 SDOs ▶ PDO linking ▶ PDO mapping: fix ▶ up to 64 peripheral modules
053-1DN00	IM 053DN - DeviceNet slave ▶ DeviceNet slave ▶ Group 2 only device ▶ Poll only device ▶ Baud rate: 125, 250 and 500kbit/s ▶ up to 64 peripheral modules
053-1DP00	IM 053DP - PROFIBUS-DP slave ▶ PROFIBUS-DP slave (DP-V0, DP-V1) ▶ 244 Byte input and 244 Byte output data ▶ up to 64 peripheral modules



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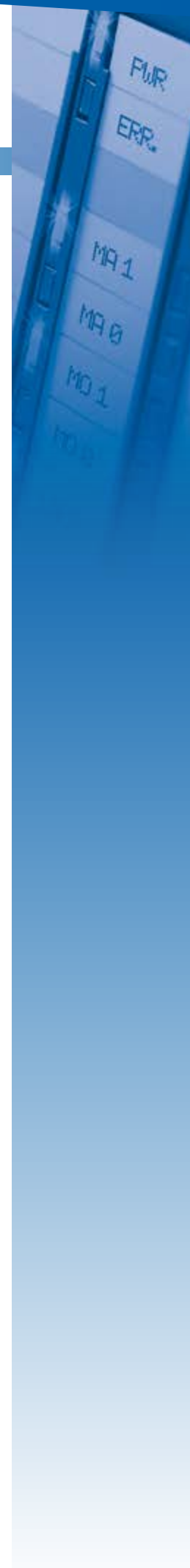
Software

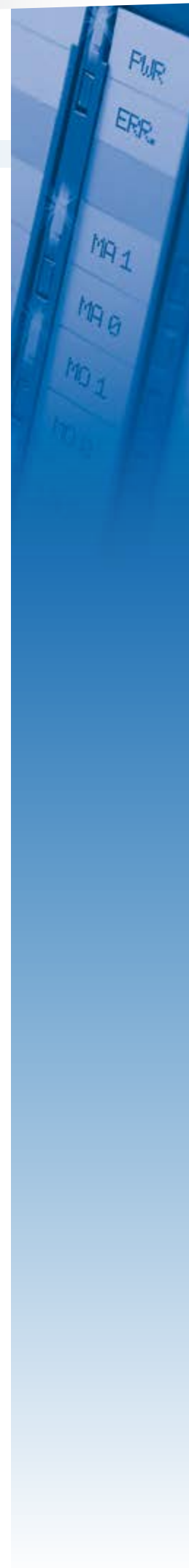
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Order no.	Name/Description
053-1EC00	IM 053EC - EtherCAT slave › EtherCAT slave › RJ45 jack 100BaseTX › up to 64 peripheral modules
053-1IP00	IM 053IP - EtherNet/IP slave › EtherNet/IP-Slave › I/O configuration via fieldbus › up to 64 peripheral modules
053-1MT00	IM 053MT - Modbus/TCP slave › Modbus/TCP slave › I/O configuration via fieldbus › up to 64 peripheral modules
053-1PN00	IM 053PN - PROFINET-IO slave › PROFINET-IO slave › Transfer rate 100Mbit/s › up to 64 peripheral modules › MRP, FreeModuleMapping, 3-times-SharedDevice
Line extensions	
060-1AA00	IM060 Line Extension › SLIO IM060 bus extension › Master module for extension / renewal of the SLIO bus to another line › Connector: 1x RJ45 plug connector › Module width 25.8 mm › Connection: CAT6 cable, maximum length: 2m › Module is always installed at the last place in the line, module IM060 and IM061 always form a pair
061-1BA00	IM061 Line Extension › SLIO IM 061 bus extension › Slave module for extending SLIO bus up to 8 additional lines (up to 64 modules) › Connector: 1x RJ45 plug connector › Module width 25.8 mm › Connection: CAT6 cable, maximum length: 2m › Module is always installed at the first place in the line, Module IM 060 and IM 061 always form a pair
35 mm profile rail	
290-1AF00	35 mm profile rail › length 2000 mm
290-1AF30	35 mm profile rail › length 530 mm
Cables	
950-0KD30	SLIO line extension cable › SLIO line extension cable
Miscellaneous	
000-0AA00	SLIO bus cover › 1 piece
000-0AB00	SLIO shield bus carrier › 10 pieces
000-0AC00	SLIO shield bus carrier › Coding key for secure coding of SLIO modules › Quantity: 100 pieces
000-0DN00	SLIO bus cover › DeviceNet jack for IM › Contact surface: gold › Pole number: 5 › Contact termination: spring force connection





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| VIPA 100V

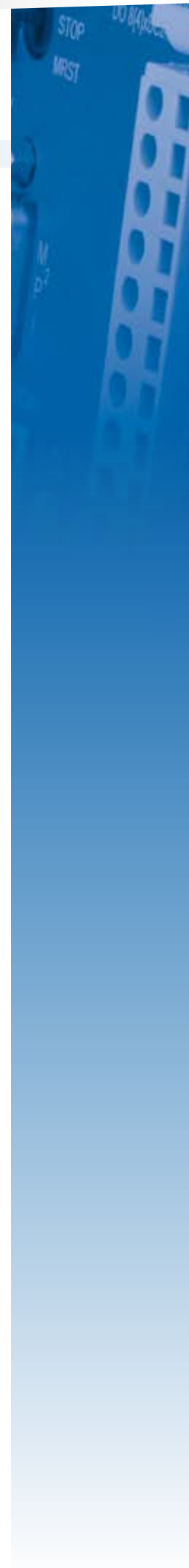
100V

Order no.	Name/Description
CPUs STEP7 programmable	
112-4BH02	VIPA CPU 112 - Micro PLC › 8 (12) inputs › 8 (4) outputs › 8 kB work memory, 16 kB load memory
114-6BJ04	VIPA CPU 114 - Micro PLC › 16 (20) inputs › 8 (4) outputs › from which are 2 PWM 50 kHz outputs › 32 kB work memory, 40 kB load memory
114-6BJ54	VIPA CPU 114R - Micro PLC › 16 inputs › 8 relay outputs › AC 230 V/ DC 30 V › 32 kB work memory, 40 kB load memory
CPUs STEP7 programmable, PiP	
115-6BL14	VIPA CPU 115SER - Micro PLC › 16 (20) inputs › 16 (12) outputs › from which are 2 PWM 50 kHz outputs › 32 kB work memory, 40 kB load memory › RS232 interface
CPUs STEP7 programmable, DP slave	
115-6BL22	VIPA CPU 115DP - Micro PLC › 16 (20) inputs › 16 (12) outputs › 16 kB work memory, 24 kB load memory › PROFIBUS-DP slave interface
115-6BL24	VIPA CPU 115DP - Micro PLC › 16 (20) inputs › 16 (12) outputs › 32 kB work memory, 40 kB load memory › PROFIBUS-DP slave interface
Clamp modules	
101-4FH50	CM 101 - Clamp modules › 8x11 clamps › passive
Digital in/output modules	
123-4EH01	EM 123 - Expansion module, digital › 8 inputs/ 8 outputs › DC 24 V
123-4EJ01	EM 123 - Expansion module, digital › 16 inputs/ 8 outputs › DC 24 V
123-4EL01	EM 123 - Expansion module, digital › 16 inputs/ 16 outputs › Isolated
Analog in/output modules	
134-4EE00	EM 134 - Expansion module, analog › 3 inputs U/I › 1 input Pt, Ni, R › 2 outputs U/I › Configurable
Fieldbus slave modules with I/Os, DIO	
153-4PH00	SM 153 - PROFIBUS-DP slave, digital › PROFIBUS-DP slave › 8 inputs › 8 outputs
153-6PL00	SM 153 - PROFIBUS-DP slave, digital › PROFIBUS-DP slave › 16 inputs › 16 outputs
153-6PL10	SM 153 - PROFIBUS-DP slave, digital › PROFIBUS-DP slave › 24 inputs › 8 outputs



100V

Order no.	Name/Description
Bus connectors	
290-0AA10	Bus connector ‣ 1-tier
35 mm profile rail	
290-1AF00	35 mm profile rail ‣ length 2000 mm
290-1AF30	35 mm profile rail ‣ length 530 mm
Front connector	
292-1AF00	Front connector ‣ 10 pin with cage clamps (included in the scope of delivery of signal modules)
MMC memory	
953-0KX10	MMC - MultiMediaCard ‣ Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x, and 208-1DP01, CC 03 (for load memory not necessary)



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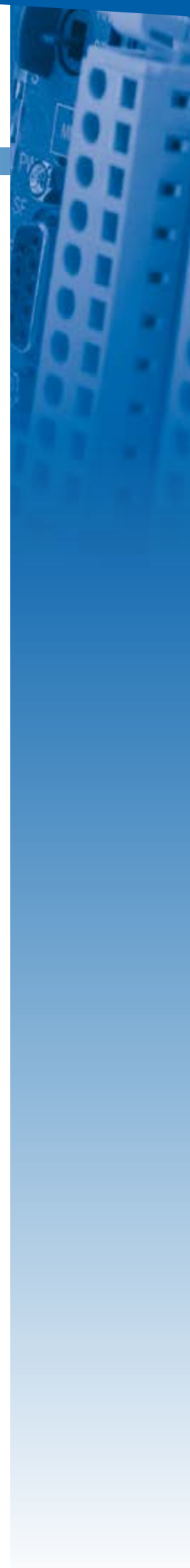




| 200V

200V

Order no.	Name/Description
CPUs STEP7 programmable, standard	
214-1BA03	VIPA CPU 214 - work memory [KB]: 96 - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, configurable with SPEED7 Studio and SIMATIC Manager
214-1BA06	VIPA CPU 214 - work memory [KB]: 96 - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, configurable with SPEED7 Studio, SIMATIC Manager and TIA Portal
214-1BC03	VIPA CPU 214C - work memory [KB]: 48 - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, configurable with SPEED7 Studio and SIMATIC Manager
214-1BC06	VIPA CPU 214C - PLC CPU - work memory [KB]: 48 - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
215-1BA03	VIPA CPU 215 - work memory [KB]: 128 - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio, SIMATIC Manager
215-1BA06	VIPA CPU 215 - work memory [KB]: 128 - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
CPUs STEP7 programmable, NET-CPUs	
214-2BE03	VIPA CPU 214PG - work memory [KB]: 96 - interface [RJ45]: Ethernet PG/OP communication - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
214-2BT13	VIPA CPU 214NET PG - work memory [KB]: 96 - integrated Ethernet CP243 - interface [RJ45]: active Ethernet & PG/OP communication, open Communication - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio, SIMATIC Manager
215-2BE03	VIPA CPU 215PG - work memory [KB]: 128 - interface [RJ45]: Ethernet PG/OP communication - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
215-2BE06	VIPA CPU 215PG - work memory [KB]: 128 - interface [RJ45]: Ethernet PG/OP communication - interface [RS485]: MPI - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
215-2BT13	VIPA CPU 215NET PG - work memory [KB]: 128 - integrated Ethernet CP243 - interface [RJ45]: active Ethernet CP343 & PG/OP-communication - interface 2 [RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R) - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio, SIMATIC Manager and NetPro
215-2BT16	VIPA CPU 215NET PG - work memory [KB]: 128 - interface 1 [RJ45]: Ethernet PG/OP-communication - interface 2 [RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R) - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio, SIMATIC Manager
CPUs STEP7 programmable, PtP	
214-2BS13	VIPA CPU 214SER RS232 - work memory [KB]: 96 - interface [2x RS232]: MPI, PtP: ASCII, STX/ETX, 396(R), USS master, Modbus master/slave - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
214-2BS33	VIPA CPU 214SER RS485 - work memory [KB]: 96 - interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R) , USS master, Modbus master/slave - MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager



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Order no.	Name/Description
215-2BS03	VIPA CPU 215SER ▶ work memory [KB]: 128 ▶ interface [RS485]: MPI ▶ interface [2x RS485]: PtP: ASCII, STX/ETX, 3964(R) ▶ MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
215-2BS33	VIPA CPU 215SER RS485 ▶ work memory [KB]: 128 ▶ interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave ▶ MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
CPUs STEP7 programmable, DP master	
214-2BM06	VIPA CPU 214DPM ▶ work memory [KB]: 96 ▶ interface [RS485]: MPI ▶ interface [RS485]: PROFIBUS master ▶ MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
215-2BM03	VIPA CPU 215DPM ▶ work memory [KB]: 128 ▶ interface [RS485]: MPI ▶ interface [RS485]: PROFIBUS master ▶ MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
CPUs STEP7 programmable, DP slave	
214-2BP03	VIPA CPU 214DP ▶ work memory [KB]: 96 ▶ interface [RS485]: MPI ▶ interface [RS485]: PROFIBUS slave ▶ MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
215-2BP03	VIPA CPU 215DP ▶ work memory [KB]: 128 ▶ interface [RS485]: MPI ▶ interface [RS485]: PROFIBUS slave ▶ MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
CPUs STEP7 programmable, CAN master	
215-2CM03	VIPA CPU 215CAN ▶ work memory [KB]: 128 ▶ interface 1 [RS485]: CANopen master ▶ interface 2 [RS485]: MPI ▶ MMC card slot, up to 32 expansion modules, programmable with SPEED7 Studio and SIMATIC Manager
Clamp modules	
201-1AA00	CM 201 - Double clamps module ▶ Dual terminals ▶ 2x11 clamps, gray/gray ▶ Passive
201-1AA10	CM 201 - Double clamps module ▶ Dual terminals ▶ 2x11 clamps, green-yellow/gray ▶ Passive
201-1AA20	CM 201 - Double clamps module ▶ Dual terminals ▶ 2x11 clamps, red/blue ▶ Passive
201-1AA40	CM 201 - 4-tier clamps module ▶ Quad terminals ▶ 2x5 clamps gray/gray ▶ 2x6 clamps red/blue ▶ Passive
Power supply	
207-1BA00	PS 207 - Power supply ▶ AC 100...240 V w/o manual intervention ▶ Output voltage DC 24 V
207-2BA20	PS 207 - Power supply ▶ AC 100...240 V w/o manual intervention ▶ Output voltage DC 24 V ▶ Terminal module with 2x11 clamps

200V

Order no.	Name/Description
Digital input modules	
221-1BF00	SM 221 - Digital input ‣ 8 inputs
221-1BF10	SM 221 - Digital input ‣ 8 inputs, ‣ Delay time 0.2 ms
221-1BF21	SM 221 - Digital input ‣ 8 alarm inputs ‣ Delay time 0.2 ms
221-1BF30	SM 221 - Digital input ECO ‣ 8 inputs
221-1BF50	SM 221 - Digital input ‣ 8 inputs ‣ Active low input
221-1BH00	SM 221 - Digital input ‣ 16 inputs ‣ LED status display on the conversion module UB4x
221-1BH10	SM 221 - Digital input ‣ 16 inputs
221-1BH20	SM 221 - Digital input ‣ 16 inputs ‣ 2 inputs are configurable as counter ‣ LED status display
221-1BH30	SM 221 - Digital input ECO ‣ 16 inputs
221-1BH50	SM 221 - Digital input ‣ 16 inputs ‣ Active low input ‣ LED status display on conversion module UB4x
221-1FF50	SM 221 - Digital input ‣ 8 inputs ‣ AC 180...265 V
221-2BL10	SM 221 - Digital input ‣ 32 inputs
Digital input with counter	
221-1BH20	SM 221 - Digital input ‣ 16 inputs ‣ 2 inputs are configurable as counter ‣ LED status display
Digital output modules	
222-1BF00	SM 222 - Digital output ‣ 8 outputs ‣ Output current 1A
222-1BF10	SM 222 - Digital output ‣ 8 outputs ‣ Output current 2 A
222-1BF30	SM 222 - Digital output ECO ‣ 8 outputs ‣ Output current 0.5 A
222-1BH00	SM 222 - Digital output ‣ 16 outputs ‣ Output current 0.5 A ‣ LED status display on conversion module UB4x
222-1BH10	SM 222 - Digital output ‣ 16 outputs ‣ Output current 1 A
222-1BH20	SM 222 - Digital output ‣ 16 outputs ‣ Output current 2 A
222-1BH30	SM 222 - Digital output ECO ‣ 16 outputs ‣ Output current 0.5 A
222-1BH50	SM 222 - Digital output ‣ 16 Low-Side outputs ‣ Output current 0.5 A
222-1BH51	SM 222 - Digital output ‣ 16 Low-Side outputs ‣ Output current 0.5A

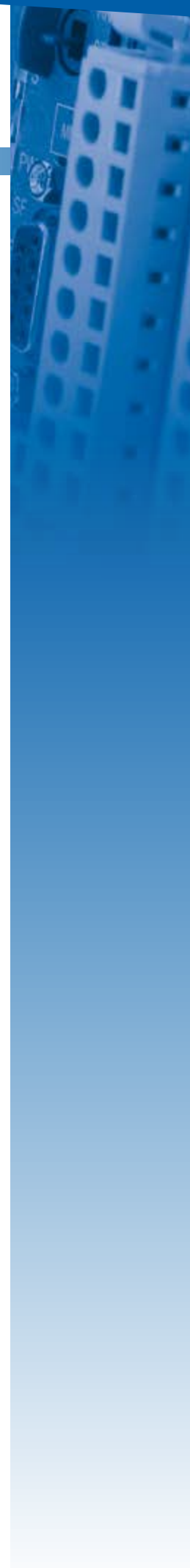


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Order no.	Name/Description
222-1FF00	SM 222 - Digital output ▶ 8 solide-state outputs ▶ AC 230 V/ DC 400 V ▶ Output current 0.5 A
222-1HD10	SM 222 - Digital output ▶ 4 isolated relay outputs ▶ AC 230 V/ DC 30 V ▶ Output current 5 A
222-1HF00	SM 222 - Digital output ▶ 8 relay outputs ▶ AC 230 V/ DC 30 V ▶ Output current 5 A
222-2BL10	SM 222 - Digital output ▶ 32 outputs ▶ Output current 1 A
Digital in/output modules	
223-1BF00	SM 223 - Digital in-/output ▶ 8 channels (as input or output) ▶ Output current 1 A ▶ Diagnostics function
223-2BL10	SM 223 - Digital in-/output ▶ 16 inputs/ 16 outputs ▶ DC 24 V ▶ Output current 1 A
Analog input modules	
231-1BD30	SM 231 - Analog input ECO ▶ 4 inputs ▶ Configurable ▶ Voltage +/-10 V
231-1BD40	SM 231 - Analog input ECO ▶ 4 inputs ▶ Configurable ▶ Current 4...20 mA, +/-20 mA
231-1BD53	SM 231 - Analog input ▶ 4 inputs ▶ Configurable ▶ Voltage, current ▶ Resistance ▶ Resistance thermometer, thermocouple
231-1BD60	SM 231 - Analog input ▶ 4 input 12 bit ▶ Current 4...20 mA ▶ Potential separated per channel
231-1BD70	SM 231 - Analog input ▶ 4 input 12 bit ▶ Voltage +/-10 V ▶ Potential separated per channel
231-1BF00	SM 231 - Analog input ▶ 8 inputs ▶ Configurable ▶ Voltage 0...60 mV ▶ Resistance thermometer, thermocouple
231-1FD00	SM 231 - Analog input FAST ▶ 4 fast inputs ▶ Configurable ▶ Voltage, current ▶ Cycle time 0.8 ms
Analog output modules	
232-1BD30	SM 232 - Analog output ECO ▶ 4 outputs ▶ Configurable ▶ Voltage +/-10 V, 0...10 V
232-1BD40	SM 232 - Analog output ECO ▶ 4 outputs ▶ Configurable ▶ Current 0(4)...20mA
232-1BD51	SM 232 - Analog output ▶ 4 outputs ▶ Configurable ▶ Voltage, current

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Order no.	Name/Description
Analog in/output modules	
234-1BD50	SM 234 - Analog in-/output › 2 inputs/2 outputs › Configurable › Voltage, current
234-1BD60	SM 234 - Analog in-/output › 4 inputs/2 outputs › Configurable › Voltage, current › Resistance, resistance thermometer
Combination modules	
238-2BC00	SM 238C - Digital in-/output, counter, analog in-/output › 16 (12) digital inputs › 0 (4) digital outputs › max. 3 counter › 4 analog inputs › 2 analog outputs
RS232/422/485 and other CPs	
240-1DA10	CM 240 - Mini-switch › 4 Ports for 10/100 MBit/s › "plug and play" through Auto-MDI/MDIX-crossover for 100BASE-TX and 10BASE-T › LEDs for activity, speed and collision
240-1BA20	CP 240 - Communication processor › RS232 interface
240-1CA20	CP 240 - Communication processor › RS485 interface
240-1CA21	CP 240 - Communication processor › RS422/485 interface
240-1EA20	CP 240 - Communication processor › 16 Byte parameter data › The transceiver module works at 868.3 MHz
240-1FA20	CP 240 - Communication processor › M-Bus master, potential separated › up to 6 slaves
Fieldbus master modules	
208-1CA00	IM 208CAN - CANopen master › CANopen master › 125 CAN slaves connectable › Project engineering under VIPA WinCoCT › 40 Transmit PDOs, 40 Receive PDOs
208-1DP01	IM 208DP - PROFIBUS-DP master › PROFIBUS-DP master › 125 DP slaves connectable
Counter modules	
250-1BA00	FM 250 - Counter module › 2/4 channels with 32/16 Bit › DC 24 V or via backplane bus › Free configurable DC 24 V outputs (1 A) › Up to 1 MHz
SSI modules	
250-1BS00	FM 250S - SSI module › 1 SSI channel › Direct power supply to the SSI transducer › Baud rate: 100/300/600 kBit/s (default: 300 kBit/s) › 2 configurable digital outputs, one may be used as hold input
Positioning modules	
253-1BA00	FM 253 - Positioning module › Positioning module for 1axis drive with stepper › 3 inputs for connecting end switches and 2 outputs
254-1BA00	FM 254 - Positioning module › Positioning module for 1axis drive with servo › For drives with an analog set point interface (+/-10 V control voltage) › 3 inputs for connecting end switches and 2 outputs



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Order no.	Name/Description
Fieldbus slave modules without I/Os	
253-1CA01	IM 253CAN - CANopen slave ▶ CANopen slave ▶ 10 Rx and 10 Tx PDO ▶ 2 SDOs ▶ PDO linking ▶ PDO mapping
253-1DP01	IM 253DP - PROFIBUS-DP slave ▶ PROFIBUS-DP slave (DP-V0, DP-V1) ▶ For max. 32 peripheral modules (16 analog) ▶ 244 Byte input and 244 Byte output data
253-1DP11	IM 253DPO - PROFIBUS-DP slave ▶ PROFIBUS-DP slave (DP-V0, DP-V1) ▶ For max. 32 peripheral modules (16 analog) ▶ 244 Byte input and 244 Byte output data ▶ LWL-Interface (POF, HCS)
253-1DP31	IM 253DP - PROFIBUS-DP slave ECO ▶ PROFIBUS-DP slave (RS485, DP-V0, DP-V1) ▶ For max. 8 peripheral modules ▶ 244 Byte input and 244 Byte output data
253-1NE00	IM 253NET - Ethernet slave ▶ Ethernet coupler with Modbus/TCP and Siemens S5 Header protocol ▶ For max. 32 peripheral modules ▶ Max. 256 Byte I/O data ▶ RJ45 jack 100BaseTX, 10BaseT
Bus connectors	
290-0AA10	Bus connector ▶ 1-tier
290-0AA20	Bus connector ▶ 2-tier
290-0AA40	Bus connector ▶ 4-tier
290-0AA80	Bus connector ▶ 8-tier
35 mm profile rail	
290-1AF00	35 mm profile rail ▶ length 2000 mm
290-1AF30	35 mm profile rail ▶ length 530 mm
Front connector	
292-1AF00	Front connector ▶ 10 pin with cage clamps (included in the scope of delivery of signal modules)
292-1AH00	Front connector ▶ 18 pin with cage clamps (included in the scope of delivery of signal modules)
Cables	
260-1XY05	Connection cable ▶ Connection cable for interface modules, length 0.5 m
260-1XY10	Connection cable ▶ Connection cable for interface modules, length 1.0 m
260-1XY20	Connection cable ▶ Connection cable for interface modules, length 2.0 m
Antennas, connectors etc.	
970-0CM00	CM 240 - Jack ▶ For communication processor CM 240 - mini-switch, external DC 24 V power supply
240-0EA00	CP 240 - Portable Antenna ▶ EnOcean Antenna portable, incl. SMA connector
240-0EA10	CP 240 - Magnetic base antenna ▶ EnOcean Antenna magnetic base, incl. 150 cm cable and SMA connector
MMC memory	
953-0KX10	MMC - MultiMediaCard ▶ Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x, and 208-1DP01, CC 03 (for load memory not necessary)
Labelling	
292-1XY20	Clip-on cards ▶ Module labeling, perforated, 10 sheets 108 cards each





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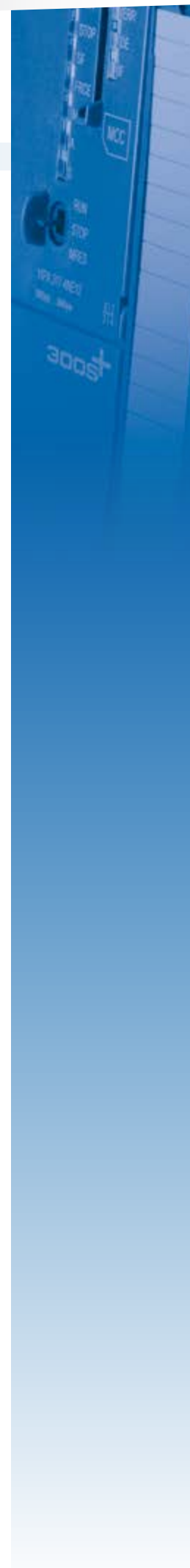
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Order no.	Name/Description
CPUs STEP7 programmable, standard	
314-2AG23	VIPA CPU 314SB DPM - powered by SPEED7 - work memory [KB]: 512 - 1.024 - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
314-2BG23	VIPA CPU 314SE - powered by SPEED7 - work memory [KB]: 256 - 1.024 - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PROFIBUS slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
315-2AG23	VIPA CPU 315SB - powered by SPEED7 - work memory [KB]: 1.024 - 4.096 - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
317-2AJ23	VIPA CPU 317SE - powered by SPEED7 - work memory [KB]: 4.096 - 8.192 - SPEED-Bus - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
CPUs STEP7 programmable, NET-CPUs	
315-4NE23	VIPA CPU 315SN - powered by SPEED7 - work memory [KB]: 1.024 - 4.096 - integrated Ethernet CP343-Lean - interface [RJ45]: Ethernet PG/OP communication - interface [RJ45]: active Ethernet CP343 & PG/OP-communication - interface [RS485]: MPI - interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
317-4NE23	VIPA CPU 317SN - powered by SPEED7 - work memory [KB]: 4.096 - 8.192 - integrated Ethernet CP343 - SPEED-Bus - interface [RJ45]: Ethernet PG/OP communication - interface [RJ45]: active Ethernet CP 343 & PG/OP communication - interface [RS485]: MPI - interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
CPUs STEP7 programmable, PROFINET	
315-4PN23	VIPA CPU 315PN - powered by SPEED7 - work memory [KB]: 1.024 - 4.096 - integrated PROFINET controller - interface [RJ45]: PROFINET - interface [RJ45]: Ethernet PG/OP communication - interface [RS485]: MPI - interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal



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Order no.	Name/Description
315-4PN43	VIPA CPU 315PN ECO - powered by SPEED7 - work memory [KB]: 512 - 1.024 - integrated PROFINET controller - interface [RJ45]: Ethernet / PROFINET-IO & PG/OP communication - interface [RJ45]: PROFINET-IO & PG/OP communication - interface [RS485]: MPI - interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
317-4PN23	VIPA CPU 317PN - powered by SPEED7 - work memory [KB]: 4.096 - 8.192 - integrated PROFINET controller - SPEED-Bus - interface [RJ45]: PROFINET - interface [RJ45]: Ethernet PG/OP communication - interface [RS485]: MPI - interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
CPUs STEP7 programmable, class C	
312-5BE23	VIPA CPU 312SC - powered by SPEED7 - work memory [KB]: 128 - 1.024 - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - onboard 16 DI / 8 DO / 2 Counter / 2 PWM - including front panel connector - SD/MMC card slot with locking, up to 8 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
313-5BF23	VIPA CPU 313SC - powered by SPEED7 - work memory [KB]: 256 - 1.024 - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave - onboard 24 DI / 16 DO / 5 AI [current/voltage] / 2 AO / 1 Pt100 / 3 Counter / 3 PWM - including front panel connector - SD/MMC card slot with locking, up to 8 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
313-6CF23	VIPA CPU 313SC DPM - powered by SPEED7 - work memory [KB]: 256 - 1.024 - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave - onboard 16 DI / 16 DO / 3 Counter / 3 PWM - including front panel connector - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
314-6CF23	VIPA CPU 314ST - powered by SPEED7 - work memory [KB]: 512 - 2.048 - SPEED-Bus - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave - onboard 8 DI / 8 DIO / 5 AI [current/voltage] / 2 AO / 1 Pt100 / 4 Counter - including front panel connector - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal
314-6CG23	VIPA CPU 314SC DPM - powered by SPEED7 - work memory [KB]: 512 - 2.048 - interface [RJ45]: Ethernet PG/OP communication - interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave - onboard 24 DI / 16 DO / 8 DIO / 5 AI [current/voltage] / 2 AO / 1 Pt100 / 4 Counter / 4 PWM - including front panel connector - SD/MMC card slot with locking, up to 32 modules stackable, programmable with SPEED7 Studio, SIMATIC Manager and TIA Portal



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Appendix

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Order no.	Name/Description
Power supply	
307-1BA00	PS 307 - Power supply ▶ Output current 2.5 A ▶ Output voltage DC 24 V ▶ AC 100...240 V without manual switch
307-1EA00	PS 307 - Power supply ▶ Output current 5 A ▶ Output voltage DC 24 V ▶ AC 120/230 V, 60/50 Hz switchable
307-1FB70	PS 307S - Power supply - SPEED-Bus ▶ Only for CPU 317S ▶ Output current 5.5A
307-1KA00	PS 307 - Power supply ▶ Output current 10 A ▶ Output voltage DC 24 V ▶ AC 120/230 V, 60/50 Hz switchable
Digital input modules	
321-1BH01	SM 321 - Digital input ▶ 16 inputs
321-1BH70	SM 321S - FAST Digital input - SPEED-Bus ▶ SPEED-Bus ▶ 16 fast inputs ▶ Parameterizable as alarm/ETS
321-1BL00	SM 321 - Digital input ▶ 32 inputs
321-1FH00	SM 321 - Digital input ▶ 16 inputs, in groups of 4 ▶ AC 120/230 V
Digital output modules	
322-1BF01	SM 322 - Digital output ▶ 8 outputs, in groups of 4 ▶ Output current 2 A
322-1BH01	SM 322 - Digital output ▶ 16 outputs, in groups of 8 ▶ Output current 1 A
322-1BH41	SM 322 - Digital output ▶ 16 outputs, in groups of 8 ▶ DC 24 V ▶ Output current 2 A
322-1BH60	SM 322 - Digital output ▶ 16 outputs ▶ 1 input (activation for outputs) ▶ 16 switches (automatic, manual 0/1) ▶ Output current 0.5 A
322-1BH70	SM 322S - FAST Digital output - SPEED-Bus ▶ SPEED-Bus ▶ 16 fast outputs ▶ Output current 0.5 A
322-1BL00	SM 322 - Digital output ▶ 32 outputs, in groups of 8 ▶ DC 24 V ▶ Output current 1 A
322-1HH00	SM 322 - Digital output ▶ 16 relay outputs, in groups of 8 ▶ AC 230 V/ DC 30 V ▶ Contact rating per channel 5 A
322-5FF00	SM 322 - Digital output ▶ 8 outputs, in groups of 1 ▶ AC 120/230 V ▶ Output current 2 A ▶ Substitute value output (programmable)



300S

Order no.	Name/Description
Digital in/output modules	
323-1BH00	SM 323 - Digital in-/output › 16 channels (as inputs or outputs) › Diagnostic function › Output current 1 A
323-1BH01	SM 323 - Digital in-/output › 8 inputs/ 8 outputs › Output current 1 A
323-1BH70	SM 323S - FAST Digital in-/output - SPEED-Bus › SPEED-Bus › 16 fast inputs/outputs › Output current 0.5 A
323-1BL00	SM 323 - Digital in-/output › 16 inputs/ 16 outputs › Output current 1 A
Analog input modules	
331-1KF01	SM 331 - Analog input › 8 inputs 13 bit › Voltage, current › Resistance › Resistance thermometer
331-7KF01	SM 331 - Analog input › 8 inputs, in 4 groups, 12 bit › Voltage, current › Resistance › Resistance thermometer › Thermocouples
331-7KB01	SM 331 - Analog input › 2 inputs, in 1 group, 12 bit › Voltage, current › Resistance › Resistance thermometer › Thermocouples
331-7AF70	SM 331S - Analog input FAST - SPEED-Bus › 8 inputs, 16 bit › Current ± 20 mA › Oscilloscope-/FIFO function › Interrupt parameterizable
331-7BF70	SM 331S - Analog input FAST - SPEED-Bus › 8 inputs, 16 bit › Voltage ± 10 V › Oscilloscope-/FIFO-Function › Interrupt parameterizable
Analog output modules	
332-5HB01	SM 332 - Analog output › 2 outputs, 12 bit › Configurable › Voltage, current
332-5HD01	SM 332 - Analog output › 4 outputs, 12 bit › Configurable › Voltage, current
Analog in/output modules	
334-OKE00	SM 334 - Analog in-/output › 4 inputs 12 bit › Configurable › Resistance › Voltage 0...10 V › Pt 100 › 2 outputs › voltage



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Appendix

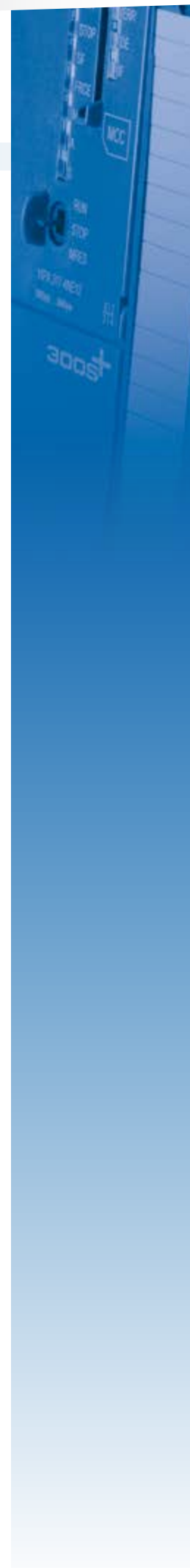
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Order no.	Name/Description
RS232/422/485 and other CPs	
341-1AH01	CP 341 - Communication processor › RS232, isolated › Function compatibility to Siemens CP 341 › Parameterization via the Siemens parameterization package › Data transfer rate up to 76.8 kbit/s › Power supply via backplane bus
341-1CH01	CP 341 - Communication processor › RS422/485, isolated › Function compatibility to Siemens CP 341 › Parameterization via the Siemens parameterization package › Data transfer rate up to 76.8 kbit/s › Power supply via backplane bus
341-2CH71	CP 341S - Communication processor - SPEED-Bus › 2x RS422/485, isolated › SPEED-Bus › Data transfer rate up to 115.2 kbit/s › Integrated diagnostics buffer
Fieldbus master modules	
342-1CA70	CP 342S CAN - CANopen master - SPEED-Bus › CANopen master, SPEED-Bus › 125 CAN slaves connectable › 40 Transmit PDOs, 40 Receive PDOs › 1 SDO (Server), 127 SDO (Client) › Project engineering: VIPA WinCoCT
342-1DA70	CP 342S DP - PROFIBUS-DP master - SPEED-Bus › PROFIBUS-DP master (Class 1), SPEED-Bus › RS485 › 124 DP slaves connectable › Project engineering: Siemens SIMATIC Manager › Diagnostic facilities
342-2IA71	CP 342S IBS - INTERBUS master - SPEED-Bus › Dual INTERBUS master, SPEED-Bus › 2x RS422 › Diagnostics via LEDs, diagnostics device (2x RJ45), Dual Port Master › Up to 512 slaves connectable
Actor/sensor interfaces	
343-2AH10	CP 343-2P ASI - AS-i master › Up to 62 slaves connectable › Corresponding to AS-i specification 3.0 (master profile M3) › Support of analog slaves concerning profile 7.3 resp. 7.4 › Automatic address programming possible (address 0)
Ethernet-CPs	
343-1EX71	CP 343S TCP/IP - Ethernet-CP 343 - SPEED-Bus › Ethernet CP 343S-NET, SPEED-Bus › RJ45 › 16 connections via Siemens NetPro › 64 connections via user program › 32 PG/OP connections
Fieldbus slave modules w/o I/Os	
353-1DP01	IM 353DP - PROFIBUS-DP slave › PROFIBUS-DP slave (DP-V0, DP-V1) › For max. 29 peripheral modules (16 analog) › 244 Byte input and 244 Byte output data › Integrated DC 24 V power supply
Memory extensions	
953-0KX10	MMC - MultiMediaCard › Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x, and 208-1DP01, CC 03 (for load memory not necessary)
953-1LE00	Memory Configuration Card (MCC) 32kByte › for SPEED7-CPUs › 16kbyte program / 16kbyte data
953-1LF00	Memory Configuration Card (MCC) 64kByte › for SPEED7-CPUs › 32kbyte program / 32kbyte data
953-1LG00	Memory Configuration Card (MCC) 128kByte › for SPEED7-CPUs › 64kbyte program / 64kbyte data
953-1LH00	Memory Configuration Card (MCC) 256kByte › for SPEED7-CPUs › 128kbyte program / 128kbyte data



300S

Order no.	Name/Description
953-1LJ00	Memory Configuration Card (MCC) 512kByte ▶ for SPEED7-CPUs ▶ 256kbyte program / 256kbyte data
953-1LK00	Memory Configuration Card (MCC) 1MByte ▶ for SPEED7-CPUs ▶ 512kbyte program / 512kbyte data
953-1LL00	Memory Configuration Card (MCC) 2MByte ▶ for SPEED7-CPUs ▶ 1MByte program / 1MByte data
953-1LM00	Memory Configuration Card (MCC) 4MByte ▶ for SPEED7-CPUs ▶ 2MByte program / 2MByte data
953-1LP00	Memory Configuration Card (MCC) 8MByte ▶ for SPEED7-CPUs ▶ 4MByte program / 4MByte data
Memory modules for other components	
955-0000000	VIPA SD-Card (VSD) ▶ 512 MB ▶ blank
Configuration and diagnosis modules	
342-0IA01	CP 342 IBS - Configuration/diagnosis module ▶ LC display ▶ 7 buttons ▶ Cable 0.5 m ▶ RJ45 connector ▶ For 342-2IA71
Profile rail	
391-1AF10	BP 391 - SPEED-Bus ▶ Profile rail, 530 mm with integrated High-SPEED rear panel bus for 2 expansion slots
391-1AF30	BP 391 - SPEED-Bus ▶ Profile rail, 530 mm with integrated High-SPEED rear panel bus for 6 expansion slots
391-1AF50	BP 391 - SPEED-Bus ▶ Profile rail, 530 mm with integrated High-SPEED rear panel bus for 10 expansion slots
391-1AJ10	BP 391 - SPEED-Bus ▶ Profile rail, 830 mm with integrated High-SPEED rear panel bus for 2 expansion slots, left justified
391-1AJ30	BP 391 - SPEED-Bus ▶ Profile rail, 830 mm with integrated High-SPEED rear panel bus for 6 expansion slots, left justified
391-1AJ50	BP 391 - SPEED-Bus ▶ Profile rail, 830 mm with integrated High-SPEED rear panel bus for 10 expansion slots, left justified
390-1AB60	Profile rail ▶ Length: 160 mm
390-1BC00	Profile rail ▶ Length: 2000 mm
390-1AE80	Profile rail ▶ Length: 482 mm
390-1AF30	Profile rail ▶ Length: 530 mm
390-1AJ30	Profile rail ▶ Length: 830 mm
Front connector	
392-1AJ00	Front connector ▶ 20pole with screw contact
392-1BJ00	Front connector ▶ 20pole with cage clamps
392-1AM00	Front connector ▶ 40pole with screw contact
392-1BM01	Front connector ▶ 40pole with cage clamps
922-3BC50	Preassembled front connectors ▶ Preassembled front connectors for 300 series ▶ cable length 2.5m ▶ coretype H05V-K ▶ nominal operating voltage DC 24 V ▶ allowed continuous current at load of all cores max 1.5 A ▶ 20 pin with 20 single cores 0,5 mm ² ▶ all the wires are marked at regular intervals with wire numbers



MICRO

CLIO

100V

200V

300S+

UMI

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Appendix

300S

Order no.	Name/Description
922-3BD20	Preassembled front connectors ➤ Preassembled front connectors for 300 series ➤ cable length 3.2m ➤ coretype H05V-K ➤ nominal operating voltage DC 24 V ➤ allowed continuous current at load of all cores max 1.5 A ➤ 20 pin with 20 single cores 0,5 mm² ➤ all the wires are marked at regular intervals with wire numbers
922-3BF00	Preassembled front connectors ➤ Preassembled front connectors for 300 series ➤ cable length 5.0m ➤ coretype H05V-K ➤ nominal operating voltage DC 24 V ➤ allowed continuous current at load of all cores max 1.5 A ➤ 20 pin with 20 single cores 0,5 mm² ➤ all the wires are marked at regular intervals with wire numbers
922-6BC50	Preassembled front connectors ➤ Preassembled front connectors for 300 series ➤ cable length 2.5m ➤ coretype H05V-K ➤ nominal operating voltage DC 24 V ➤ allowed continuous current at load of all cores max 1.5 A ➤ 40 pin with 40 single cores 0,5 mm² ➤ all the wires are marked at regular intervals with wire numbers
922-6BD20	Preassembled front connectors ➤ Preassembled front connectors for 300 series ➤ cable length 3.2m ➤ coretype H05V-K ➤ nominal operating voltage DC 24 V ➤ allowed continuous current at load of all cores max 1.5 A ➤ 40 pin with 40 single cores 0,5 mm² ➤ all the wires are marked at regular intervals with wire numbers
922-6BF00	Preassembled front connectors ➤ Preassembled front connectors for 300 series ➤ cable length 5.0m ➤ coretype H05V-K ➤ nominal operating voltage DC 24 V ➤ allowed continuous current at load of all cores max 1.5 A ➤ 40 pin with 40 single cores 0,5 mm² ➤ all the wires are marked at regular intervals with wire numbers





MICRO

SLIO

100V

200V

300S+

HMI

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Appendix



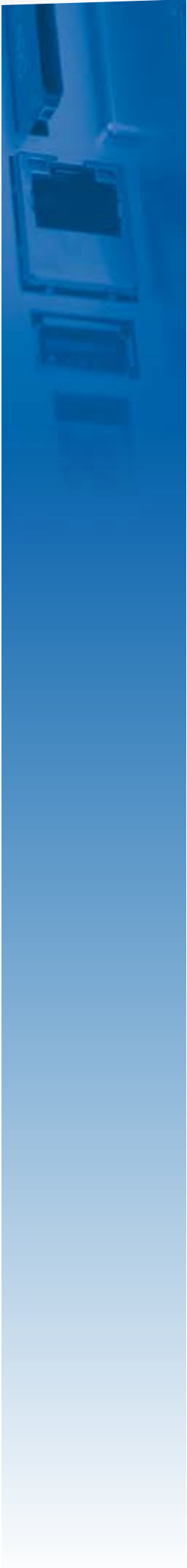


| HMI

HMI

Order no.	Name/Description
eco Panels	
62E-MHC0-DH	VIPA Touch Panel TP 604LC - Display: 4,3" - Processor: Cortex-A8 1000 MHz - RAM [MB]: 256 - User memory [MB]: 128 - External Slot: SD Card - Interface onboard: 1x RS232 1x RS232/422/485 1x USB-A 1x RJ45 (Ethernet) - Interface optional: MPI/DP interface (961-OMP0) - Software: CE6.0 Core Movicon CE Basic
62H-MHC0-DH	VIPA Touch Panel TP 607LC - Display: 7" - Processor: Cortex-A8 1000 MHz - RAM [MB]: 256 - User memory [MB]: 128 - External Slot: SD Card - Interface onboard: 1x RS232 1x RS232/422/485 1x USB-A 1x RJ45 (Ethernet) - Interface optional: MPI/DP interface (961-OMP0) - Software: CE6.0 Core Movicon CE Basic
62H-MHC0-CB	VIPA Touch Panel TP 607LC+ - Display: 7" - Processor: Cortex-A8 1000 MHz - RAM [MB]: 256 - User memory [MB]: 128 - External Slot: SD Card - Interface onboard: 1x RS232 1x RS232/422/485 1x USB-A 1x RJ45 (Ethernet) - Interface optional: MPI/DP interface (961-OMP0) - Software: CE6.0 Core Movicon CE Standard
62K-NHC0-DH	VIPA Touch Panel TP 610LC - Display: 10,4" - Processor: Cortex-A8 1000 MHz - RAM [MB]: 256 - User memory [MB]: 128 - External Slot: SD Card - Interface onboard: 1x RS232 1x RS232/422/485 1x USB-A 2x RJ45 (Ethernet) - Interface optional: MPI/DP interface (961-OMP0) - Software: CE6.0 Core Movicon CE Basic
62K-NHC0-CB	VIPA Touch Panel TP 610LC+ - Display: 10,4" - Processor: Cortex-A8 1000 MHz - RAM [MB]: 256 - User memory [MB]: 128 - External Slot: SD Card - Interface onboard: 1x RS232 1x RS232/422/485 1x USB-A 2x RJ45 (Ethernet) - Interface optional: MPI/DP interface (961-OMP0) - Software: CE6.0 Core Movicon CE Standard
62P-NHC0-DH	VIPA Touch Panel TP 615LC - Display: 15" - Processor: Cortex-A8 1000 MHz - RAM [MB]: 256 - User memory [MB]: 128 - External Slot: SD Card - Interface onboard: 1x RS232 1x RS232/422/485 1x USB-A 2x RJ45 (Ethernet) - Interface optional: MPI/DP interface (961-OMP0) - Software: CE6.0 Core Movicon CE Basic
62P-NHC0-CB	VIPA Touch Panel TP 615LC+ - Display: 15" - Processor: Cortex-A8 1000 MHz - RAM [MB]: 256 - User memory [MB]: 128 - External Slot: SD Card - Interface onboard: 1x RS232 1x RS232/422/485 1x USB-A 2x RJ45 (Ethernet) - Interface optional: MPI/DP interface (961-OMP0) - Software: CE6.0 Core Movicon CE Standard

HMI



Appendix	Accessories	Software	Solutions	Safety	Teleservice	HMI	300S+	200V	100V	SLIO	MICRO
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HMI

Order no.	Name/Description
62K-JID0-CX	VIPA Touch Panel TP 610C - Display: 10,4" - Processor: XScale-CPU 1066 MHz - RAM [MB]: 256 - User memory [MB]: 512 - External Slot: SD Card CFast - Interface onboard: 1x RS232 1x 422/485 2x USB-A 1x USB-B 2x RJ45 (Ethernet) 1x MPI/PROFIBUS-DP - Software: CE6.0 Professional
62K-JIDR-CX	VIPA Touch Panel TP610C RFID - Display: 10,4" - Processor: XScale-CPU 1066 MHz - RAM [MB]: 256 - User memory [MB]: 512 - External Slot: SD Card CFast - Interface onboard: 1x RS232 1x 422/485 2x USB-A 1x USB-B 2x RJ45 (Ethernet) 1x MPI/PROFIBUS-DP - Software: CE6.0 Professional
62M-JID0-CB	VIPA Touch Panel TP 612C - Display: 12" - Processor: XScale-CPU 1066 MHz - RAM [MB]: 256 - User memory [MB]: 512 - External Slot: SD Card CFast - Interface onboard: 1x RS232 1x 422/485 2x USB-A 1x USB-B 2x RJ45 (Ethernet) 1x MPI/PROFIBUS-DP - Software: CE6.0 Professional Movicon CE Standard
62M-JID0-CX	VIPA Touch Panel TP 612C - Display: 12" - Processor: XScale-CPU 1066 MHz - RAM [MB]: 256 - User memory [MB]: 512 - External Slot: SD Card CFast - Interface onboard: 1x RS232 1x 422/485 2x USB-A 1x USB-B 2x RJ45 (Ethernet) 1x MPI/PROFIBUS-DP - Software: CE6.0 Professional
62M-JIDR-CX	VIPA Touch Panel TP 612C RFID - Display: 12" - Processor: XScale-CPU 1066 MHz - RAM [MB]: 256 - User memory [MB]: 512 - External Slot: SD Card CFast - Interface onboard: 1x RS232 1x 422/485 2x USB-A 1x USB-B 2x RJ45 (Ethernet) 1x MPI/PROFIBUS-DP - Software: CE6.0 Professional
Panel PC	
67K-PNJ0-EB	VIPA Panel PC PPC010 CE - Display: 10" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 2 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WEC7 Movicon CE Standard
67K-PNL0-JB	VIPA Panel PC PPC010 ES - Display: 10" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 16 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WES7 Movicon Standard
67K-PNL0-JX	VIPA Panel PC PPC010 ES - Display: 10" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 16 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WES7

HMI

Order no.	Name/Description
67P-PNJ0-EB	VIPA Panel PC PPC021 CE - Display: 15" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 2 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WEC7 Movicon CE Standard
67P-PNL0-JB	VIPA Panel PC PPC015 ES - Display: 15" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 16 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WES7 Movicon Standard
67P-PNL0-JX	VIPA Panel PC PPC015 ES - Display: 15" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 16 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WES7
67S-PNJ0-EB	VIPA Panel PC PPC021 CE - Display: 21" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 2 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WEC7 Movicon CE Standard
67S-PNL0-JB	VIPA Panel PC PPC021 ES - Display: 21" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 16 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WES7 Movicon Standard
67S-PNL0-JX	VIPA Panel PC PPC021 ES - Display: 21" - Processor: Intel Atom D2550 1860 MHz - RAM [GB]: 2 - User memory [GB]: 16 - External Slot: CFast - Interface onboard: 2x 232/422/485 4x USB-A 1x VGA 2x RJ45 (Ethernet) 1x Audio out - Software: WES7
Optional interfaces	
961-OMP0	MPI/PROFIBUS-DP interface For optional retrofitting of the MPI/DP interfaces at eco panels series
Text displays and operator panels	
603-1TD00	VIPA VIPA Text Display TD 03 - Display: 2 x 20 characters - Interface: MP2I - Languages: DE, EN - Visualization of the connected CPU via MPI
603-1OP00	VIPA Operator Panel OP 03 - Display: 2 x 20 characters - Interface: MP2I - User memory: 256 kB - Languages: DE, EN, FR, ES, IT, SV, NO, DA - Project engineering via VIPA OP-Manager or Siemens ProTool

HMI

Order no.	Name/Description
Commander compact	
603-1CC23	VIPA Commander Compact CC 03 - Display: 2 x 20 characters - Interface: MP²¹ - User memory: 128 kB - Languages: DE, EN, FR, ES, IT, SV, NO, DA - Project engineering via VIPA OP-Manager or Siemens ProTool - Integrated PLC-CPU: 32/40kByte work/load memory, 16 x DI, 16 x DO, up to 4 I/O expansion modules
HMI software - Editors	
SW614B1MA	Movicon 11 VIPA Edition License - Sealed Envelope with single user licence Movicon 11 VIPA Edition Software Download - Alarm management, recipe management, data logging, user administration, OPC DA server, 262 communication drivers - Support of: Multi-Touch, JavaTM, Webserver - Upgrade option: to newer runtime versions - Extension option: Functionality and trend and archive server function
SW614B4MA	Movicon 11 VIPA Edition Set - Sealed box with single user license for Movicon 11 VIPA Edition USB thumb drive - Alarm management, recipe management, data logging, user administration, OPC DA server, 262 communication drivers - Support of: Multi-Touch, JavaTM, Webserver - Upgrade option: to newer runtime versions - Extension option: Functionality and trend and archive server function
HMI software - Runtime	
SW514S31B	Movicon Version 11.x für Windows Upgrade [128 IO-Bytes] - USB dongle, executable only on VIPA Panel PCs with Movicon basic license (128 IO bytes) - Variable use up to 128 IO-bytes
SW514S33B	Movicon Version 11.x für Windows Upgrade [512 IO-Bytes] - USB dongle, executable only on VIPA Panel PCs with Movicon basic license (512 IO bytes) - Variable use up to 512 IO-bytes
SW514S35B	Movicon Version 11.x für Windows Upgrade [2048 IO-Bytes] - USB dongle, executable only on VIPA Panel PCs with Movicon basic license (2048 IO bytes) - Variable use up to 2048 IO-bytes
UPGWB-1101PC128	Expansion by 1 web client [128 IO bytes] - for Movicon version 11.x for Windows - up to 128 IO-Bytes - online upgrade - executable only on VIPA Panel PCs - expansion for a Movicon 11 Win Standard license - the number of the IO bytes has to correspond - Non-recurring costs per order of 150€ (Art. no. CPTZ)
UPGWB-1101PC512	Expansion by 1 web client [512 IO bytes] - for Movicon version 11.x for Windows - up to 512 IO-Bytes - online upgrade - executable only on VIPA Panel PCs - expansion for a Movicon 11 Win Standard license - the number of the IO bytes has to correspond - Non-recurring costs per order of 150€ (Art. no. CPTZ)
UPGWB-1101PC2048	Expansion by 1 web client [2048 IO bytes] - for Movicon version 11.x for Windows - up to 2048 IO-Bytes - online upgrade - executable only on VIPA Panel PCs - expansion for a Movicon 11 Win Standard license - the number of the IO bytes has to correspond - Non-recurring costs per order of 150€ (Art. no. CPTZ)
UPGWB-1102PC128	Expansion by 2 web clients [128 IO bytes] - for Movicon version 11.x for Windows - up to 128 IO-Bytes - online upgrade - executable only on VIPA Panel PCs - expansion for a Movicon 11 Win Standard license - the number of the IO bytes has to correspond - Non-recurring costs per order of 150€ (Art. no. CPTZ)
UPGWB-1102PC512	Expansion by 2 web clients [512 IO bytes] - for Movicon version 11.x for Windows - up to 512 IO-Bytes - online upgrade - executable only on VIPA Panel PCs - expansion for a Movicon 11 Win Standard license - the number of the IO bytes has to correspond - Non-recurring costs per order of 150€ (Art. no. CPTZ)

HMI

Order no.	Name/Description
UPGWB-1102PC2048	Expansion by 2 web clients [2048 IO bytes] › for Movicon version 11.x for Windows › up to 2048 IO-Bytes › online upgrade › executable only on VIPA Panel PCs › expansion for a Movicon 11 Win Standard license › the number of the IO bytes has to correspond › Non-recurring costs per order of 150€ (Art. no. CPTZ)
CPTZ	Non-recurring costs upgrade › for Movicon online Upgrade Webclient
Memory modules for Touch Panels	
574-2AH00	Compact Flash (CF) 1GB › for VIPA professional Panels
574-2AI00	Compact Flash (CF) 2GB › for VIPA professional Panels
574-2BK00	CFast memory card 8 GB › for VIPA Panel PC
574-2BL00	CFast memory card 16 GB › for VIPA Panel PC
953-1SI00	Secure Disc (SD) 2GB › for VIPA eco und professional Panels
Protective foil	
574-1AE01	Protective foil TP606 › for professional Panels 5.7" and 6.5", 10 pieces
574-1AF01	Protective foil TP608 › for professional Panels 8.4", 10 pieces
574-1AG01	Protective foil TP610 › for professional Panels 10.4", 10 pieces
574-1AH01	Protective foil TP612 › for professional Panels 12.1", 10 pieces
574-1BC01	Protective foil TP604LC › for eco Panels 4.3", 10 pieces
574-1BS01	Protective foil TP607LC › for eco Panels 7.0", 10 pieces
574-1BG01	Protective foil TP604LC › for eco Panels 4.3", 10 pieces
574-1BK01	Protective foil TP604LC › for eco Panels 15", 10 pieces
Cables	
670-0KB20	Ethernet programming cable › for Touch Panels mit Movicon 3,0 m
670-0KB00	OP/AG cable 0°/90° with PU/Diagnostic port › for VIPA CC 03, OP 03, TD 03
670-0KB01	OP/AG cable 90°/90° with PU/Diagnostic port › OP/AG cable 90°/90° with PU/Diagnostic port PU-/Diagnostic port, 2.5 m
660-0KB00	Periphery expansion cable CC 03 › up to 4 expansion modules EM 123 or System 200V modules, 0.5 m
950-0KB50	PC/AG programming cable › MPI cable with with PU-/Diagnostic port, 2.5 m





| Teleservice

Teleservice

Order no.	Name/Description
Teleservice modules	
900-2C580	VIPA TM-C VPN Router 3G+/WAN/LAN › 3G+ modem for external broadband communication › 4x RJ45 LAN 100 Mbit/s (integrated switch, 1x 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 › Please order the antenna separately: (900-0AB51)
900-2C510	VIPA TM-C VPN Router WAN/LAN › 4x RJ45 LAN 100 Mbit/s (integrated switch, 1x 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
900-2C520	VIPA TM-C VPN Router WIFI/WAN/LAN › WIFI interface for connection to a WIFI network › 4x RJ45 LAN 100 Mbit/s (integrated switch, 1x 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 › including WIFI antenna
900-2C610	VIPA TM-C VPN Router WAN/LAN/MPI › For teleservice through broadband connection via Talk2M › 4x RJ45 LAN 100 Mbit/s (integrated switch, 1x configurable LAN/WAN) › 1x SUB-D 9pin MPI/PROFIBUS up to 12 Mbit/s › 1x digital inputs and outputs
900-2H611	VIPA TM-H VPN Router WAN/LAN/MPI › For teleservice through a broadband connection via Talk2M & VPN › 4x RJ45 LAN 100 Mbit/s (integrated Switch, 1 extra WAN Port) › 1x RJ45 WAN 100 Mbit/s › 1x SUB-D 9pin MPI/PROFIBUS up to 12 Mbit/s › 1x digital Input and Output › Alarmmanagement
900-2H682	VIPA TM-H VPN Router HSPA/LAN/MPI › For remote maintenance via Talk2M VPN › 4x RJ45 LAN 100 Mbit / s (integrated switch, 1 extra WAN Port) › 1x RJ45 WAN 100 Mbps › 1x integrated GSM / HSPA Pentaband modem (WAN) › 1x SUB-D 9-pin MPI / PROFIBUS up to 12 Mbit / s › 1x digital input and output › Alarm management › Alarm management via SMS & Email › Please order the antenna separately: 900-0AB51
Antennas and accessories	
900-0AB51	TM antenna GSM/UMTS › Mobile antenna incl. 5 m cable › SMA connector › Resistance: 50 Ohm › Power: 10 W › Gain: 2.14 dBi › 900/1800 MHz



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200V

300S+

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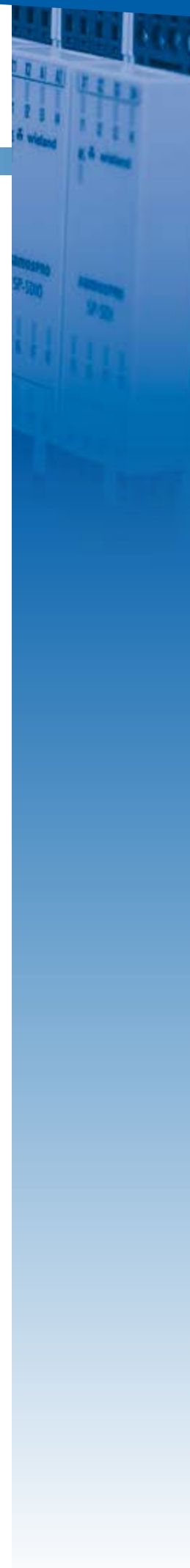




| Safety

Safety

Order no.	Name/Description
Safety electronics modules	
R119000300	samosPRO SP-SDIO84-P1-K-A ‣ samosPRO, IO-module with 8 input/4 solid state output, screw clamp terminal pluggable
R119000400	samosPRO SP-SDIO84-P1-K-C ‣ samosPRO, IO-module with 8 input/4 solid state output, spring clamp terminal pluggable
R119000500	samosPRO SP-SDI8-P1-K-A ‣ samosPRO, IN-module with 8 input, screw clamp terminal pluggable
R119000600	samosPRO SP-SDI8-P1-K-C ‣ samosPRO, IN-module with 8 input, spring clamp terminal pluggable
Gateway modules	
R119001600	samosPRO SP-EN-ETC ‣ samosPRO Gateway for EtherCAT
R119001900	samosPRO SP-PROFIBUS-DP ‣ samosPRO buscoupling modul for PROFIBUS-DP
R119002100	samosPRO SP-CANopen ‣ samosPRO gateway for CANopen
Safety relay	
R118805900	safeRELAY SNE 4004K-A ‣ Output expansion unit ‣ 4 enabling current paths ‣ 3 signaling current paths ‣ AC/DC 24 V ‣ screw terminals pluggable
R118819800	safeRELAY SNE 4004K-C ‣ Output expansion unit ‣ 4 enabling current paths ‣ 3 signaling current paths ‣ AC/DC 24 V ‣ cage clamp terminals pluggable
R118839300	safeRELAY SNE 4024K-A ‣ Output expansion unit ‣ 2x2 enabling current paths, ‣ 2x1 signalling outputs ‣ DC 24 V ‣ screw-terminals pluggable
R118839400	safeRELAY SNE 4024K-C ‣ Output expansion unit ‣ 2x2 enabling current paths ‣ 2x1 signalling outputs ‣ DC 24 V ‣ cage clamp-terminals pluggable
Kompakt-Module	
R119011100	samosPRO SP-COP1-A ‣ samosPRO-COP1-COMPACT-module safety control ‣ with USB-interface ‣ 20 safe inputs/4 safe outputs ‣ screw terminals pluggable
R119011200	samosPRO SP-COP1-A ‣ samosPRO-COP1-COMPACT-module safety control ‣ with USB-interface ‣ 20 safe inputs/4 safe outputs ‣ cage clamp terminals pluggable
R119011300	samosPRO SP-COP1-P-A ‣ samosPRO-COP1-COMPACT-module safety control, PLUS version ‣ incl. press function and standstill monitoring ‣ with USB-interface ‣ 20 safe inputs/4 safe outputs ‣ screw terminals pluggable
R119011400	samosPRO SP-COP1-P-C ‣ samosPRO-COP1-COMPACT-module safety control, PLUS version ‣ incl. press function and standstill monitoring ‣ with USB-interface ‣ 20 safe inputs/4 safe outputs ‣ cage clamp terminals pluggable
R119012100	samosPRO SP-COP2-EN-A ‣ samosPRO-COP1-COMPACT-module safety control ‣ with USB-interface ‣ with Ethernet-interface ‣ 16 safe inputs/4 safe outputs/4 configurable safe I/O ‣ screw terminals pluggable



Safety

Order no.	Name/Description
R119012200	samosPRO SP-COP2-EN-C › samosPRO-COP1-COMPACT-module safety control › with USB-interface › with Ethernet-interface › 16 safe inputs/4 safe outputs/4 configurable safe I/O › cage clamp-terminals pluggable
R119012300	samosPRO SP-COP2-EN-P-A › samosPRO-COP1-COMPACT-module safety control, PLUS version › incl. press function and standstill monitoring › with USB-interface › with Ethernet-interface › 16 safe inputs/4 safe outputs/4 configurable safe I/O › screw terminals pluggable
R119012400	samosPRO SP-COP2-EN-P-C › samosPRO-COP2-COMPACT-module safety control, PLUS version › incl. press function and standstill monitoring › with USB-interface › with Ethernet-interface › 16 safe inputs/4 safe outputs/4 configurable safe I/O › cage clamp terminals pluggable
R119013100	samosPRO SP-COP2-ENI-A › samosPRO-COP2-COMPACT-module safety control › with USB-interface › with Ethernet-interface › Industrial-Ethernet-protocols: PROFINET, MODBUS-TCP, ETHERNET IP › 16 safe inputs / 4 safe outputs / 4 configurable safe I/O › screw terminals pluggable
R119013200	samosPRO SP-COP2-ENI-C › samosPRO-COP2-COMPACT-module safety control › with USB-interface › with Ethernet-interface › Industrial-Ethernet-protocols: PROFINET, MODBUS-TCP, ETHERNET IP › 16 safe inputs / 4 safe outputs / 4 configurable safe I/O › cage clamp terminals pluggable
R119013300	samosPRO SP-COP2-ENI-P-A › samosPRO-COP2-COMPACT-module safety control, PLUS version › incl. press function and standstill monitoring › with USB-interface › with Ethernet-interface › Industrial-Ethernet-protocols: PROFINET, MODBUS-TCP, ETHERNET IP › 16 safe inputs / 4 safe outputs / 4 configurable safe I/O › cage clamp terminals pluggable
R119013400	samosPRO SP-COP2-ENI-P-C › samosPRO-COP2-COMPACT-module safety control, PLUS version › incl. press function and standstill monitoring › with USB-interface › with Ethernet-interface › Industrial-Ethernet-protocols: PROFINET, MODBUS-TCP, ETHERNET IP › 16 safe inputs / 4 safe outputs / 4 configurable safe I/O › screw terminals pluggable
Safety Zubehör	
R119000900	samosPRO SP-CABLE1 › samosPRO, cable, 2m, M8-DSUB
R119002500	samosPRO SP-CONVERTER › USB-RS232-adapter
R119002600	samosPRO SP-FILTER1 › samosPRO-Output-Filter, 680nF
R119002700	samosPRO SP-FILTER2 › samosPRO-Output-Filter, 2,2uF
R119010000	samosPRO SP-COP-CARD1 › samosPRO memory card for SP-COP
R119010100	samosPRO SP-CABLE-USB1 › samosPRO USB cable for SP-COP, 1.8 m
R119010200	samosPRO SP-CABLE-ETH1 › samosPRO Ethernet cable for SP-COP, 2 m
R119011000	samosPRO SP-COP-STARTERSET › samosPRO starterset › SP-COP2-EN-A › SP-COP CARD1 › SP-PLAN 6 programming tool › SP-CABLE-USB1 › SP-CABLE-ETH1

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| Solutions

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Order no.	Name/Description
Energiemanagement	
SW710B5MA	VIPA EnMS Server/Client Set 64 Measuring Points › 64 Measuring Points included › (NOT expandable) › (NO load management) › Movicon SCADA PRO RT (256 IO-Bytes) included
SW710B4MA	VIPA EnMS Server/Client Set 96 - 128 Measuring Points › 96 Measuring Points included › Expandable up to a maximum of 128 Measuring points (VIPA EnMS Update - SW710X1MA) › (NO load management) › Movicon SCADA PRO RT (512 IO-Bytes) included
SW710B3MA	VIPA EnMS Server/Client Set 32 - 1008 Measuring Points › 32 Measuring Points included › Optional load management (VIPA EnMS Extension - SW710Y1MA) › Optional load management (VIPA EnMS Extension - SW710Y1MA) › Movicon SCADA PRO RT (8192 IO-Bytes) included
SW710X1MA	VIPA EnMS upgrade 4 Measuring Points › Measuring Points expansion for VIPA EnMS Server/Client Products (4 additional measuring points)
SW710Y1MA	VIPA EnMS expansion load management › Load management expansion for VIPA EnMS Server/Client Products



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Software

Order no.	Name/Description
Communication software	
SW110M1MA	VIPA OPC Server MPI License - Sealed Envelope with single user license for VIPA OPC Server Software Download - Serial MPI communication (PC: COM Port <-> PLC: MPI Port) - Windows XP (SP3), Windows Vista, Windows 7 (32bit/64bit) - Windows Server 2003 (SP2), Windows Server 2008, Windows Server 2008 R2
SW110F1MA	VIPA OPC Server Fetch/Write License - Sealed Envelope with single user license for VIPA OPC Server Software Download - CP-communication with configurable connection (PC: Ethernet Port <-> PLC: Ethernet Port) - Required: CP343, PLC315SN/NET, PLC317SN/NET - Windows XP (SP3), Windows Vista, Windows 7 (32bit/64bit) - Windows Server 2003 (SP2), Windows Server 2008, Windows Server 2008 R2
SW110T1MA	VIPA OPC Server S7 TCP/IP License - Sealed Envelope with single user license for VIPA OPC Server Software Download - PG/OP / TCP/IP-communication (PC: Ethernet Port <-> PLC Ethernet Port) - All VIPA PLCs with integrated PG/OP interface - Windows XP (SP3), Windows Vista, Windows 7 (32bit/64bit) - Windows Server 2003 (SP2), Windows Server 2008, Windows Server 2008 R2
SW11131MA	VIPA SPEED7 Com Driver 32bit Developer License - Sealed Envelope with single user license for SPEED7 Com Drivers Software Download - S7-communication driver (Windows 32-Bit-DLL) for all major high-level languages (C++, C#, VB, VB.NET, DELPHI) - For VIPA SPEED7 PLCs and SIEMENS S7 PLCs - Windows XP (SP3), Windows Vista, Windows 7 (32bit/64bit), Windows 8 (32bit/64bit)
SW11161MA	VIPA SPEED7 Com Driver 64bit Developer License - Sealed envelope with single user license for SPEED7 Com Drivers Software Download - S7-communication driver expansion* for 64bit applications (Windows 64Bit-DLL) for high-level language C++ - For VIPA SPEED7 PLC and SIEMENS S7 PLCs - Windows 7 (64bit), Windows 8 (64bit) * SPEED7 Com Driver 32bit is required (SW11131MA or SW11135MA)!
SW111C1MA	VIPA SPEED7 Com Driver CE Developer License - Sealed envelope with single user license for SPEED7 Com Drivers Software License - S7-communication driver for Windows Embedded CE 6.0 (ARM) und C++ - For VIPA SPEED7 PLCs and SIEMENS S7 PLCs
Programming software	
SW010B1MA	SPEED7 Studio BASIC Single License - Sealed envelope with single user license for SPEED7 Studio BASIC (activatable for 3 times) Software Download - Configuration of the VIPA MICRO CPUs, VIPA Touch Panels and Panel-PCs - Project engineering of PROFIBUS / PROFINET / EtherCAT devices - Visualization with the integrated SVG editor (Web visualization) - Connection and licensing of the SCADA System Movicon 11
SW010B4MA	SPEED7 Studio BASIC Single Set - Sealed box with single user license for SPEED7 Studio BASIC (activatable for 3 times) and USB thumb drive - Configuration of the VIPA MICRO CPUs, VIPA Touch Panels and Panel-PCs - Project engineering of PROFIBUS / PROFINET / EtherCAT devices - Visualization with the integrated SVG editor (Web visualization) - Connection and licensing of the SCADA System Movicon 11
SW010P1MA	SPEED7 Studio PRO Single License - Sealed envelope with single user license for SPEED7 Studio PRO (activatable for 3 times) Software Download - Configuration of the VIPA MICRO CPUs, VIPA Touch Panels and Panel-PCs - Project engineering of PROFIBUS / PROFINET / EtherCAT devices - Visualization with the integrated SVG editor (Web visualization) - Connection and licensing of the SCADA System Movicon 11 - Motion control functions for up to 20 axes - Logic analyzer for detailed diagnosis
SW010P4MA	SPEED7 Studio PRO Single Set - Sealed box with multi user license for SPEED7 Studio PRO (activatable for 3 times) and USB thumb drive - Configuration of the VIPA MICRO CPUs, VIPA Touch Panels and Panel-PCs - Project engineering of PROFIBUS / PROFINET / EtherCAT devices - Visualization with the integrated SVG editor (Web visualization) - Connection and licensing of the SCADA System Movicon 11 - Motion control functions for up to 20 axes - Logic analyzer for detailed diagnosis
SW310B1MA	SPEED7 EtherCAT Manager Lizenz - SPEED7 EtherCAT Manager for configuration of VIPA EtherCAT CPUs - project engineering and diagnosis of EtherCAT networks - automatically read of EtherCAT network topologies
Parameterization software	
SW310B1MA	VIPA OP-Manager License Parametrization tool for OP 03

Software

Order no.	Name/Description
SW31WB1MA	VIPA WinCoCT License ‣ Parametrization tool for VIPA CANopen CPUs and CPs
Analysis tool	
SW711A1LA	WinPLC-Analyzer ‣ CD + dongle, German/English, for VIPA Systems and S7-300/400 from Siemens (in combination with WinPLC7), incl. driver
SW711A2LA	WinPLC-Analyzer ‣ CD + dongle, German/English, for VIPA Systems and S7-300/400 from Siemens, incl. driver



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Order no.	Name/Description
S5 components	
306-1LE00	IM 306 DP slave - 115U ZG/EG IM › Converting Siemens S5 PLCs to S7 › Exclusively suited for AG-115U central controller and expansion units › Integrated DC 24V power supply › Adapter casing for S5-115U/F required, please order separately: 6ES5491-0LB11
6ES5491-0LB11	Adapter casing for S5-115U/F
306-1UE00	IM 306 DP slave - 135U/155U ZG/EG IM › Converting Siemens S5 PLCs to S7 › Exclusively suited for AG-135U/155U central controller and expansion units › Integrated DC 24V power supply
306-1UZ00	IM 306 DP slave - 135U/155U ZG CPU › Converting Siemens S5 systems to S7 › Exclusively suited for AG-135U/155U central controller
DP-Repeater	
920-1BB10	VIPA Profibus-Repeater B1 › 1 segment and 31 devices per channel › 9.6 Kbps .. 12 Mbps (automatic recognition) › 1200 m segment length (depending on the baud rate) › Transparent for all PROFIBUS DP protocols › No Profibus address required
920-1BD10	VIPA Profibus-Repeater D1 IP66 › 1 segmente and 31 devices per channel › Screw terminal and DB9 plug connector › Integrated terminators (disconnectable) › Redundant power supply
920-1CA50	VIPA MultiRepeater A5 › 5 segmente and 31 divces per channel › 9.6 Kbps .. 12 Mbps (automatic recognition) › 1200 m segment length (depending on baud rate) › Integrated terminators (disconnectable) › IP65
920-1CB20	VIPA Profibus-MultiRepeater B2-R › 2 segmente and 31 devices per channel › 9.6 Kbps .. 12 Mbps (automatic recognition) › 1200 m segment length (depending on baud rate) › Integrated terminators (disconnectable) › telegram check (integrity check) › Alarm contact and Redundant power supply
920-1CB50	VIPA Profibus-MultiRepeater B5-R › 5 segmente and 31 devices per channel › 9.6 Kbps .. 12 Mbps (automatic recognition) › 1200 m segment length (depending on baud rate) › Integrated terminators (dis-connectable) › Alarm contact › Redundant power supply
920-1DB50	VIPA Profibus-MultiRepeater B5-RD › 5 segmente and 31 devices per channel › 9.6 Kbps .. 12 Mbps (automatic recognition) › 1200 m segment length (depending on the baud rate) › Integrated terminators (disconnectable) › Alarm contact and Redundant power supply
921-1EB50	VIPA Profibus-MultiSwitch B5-R › 5 segmente and 31 devices per channel › segments can be operated with different bau drates › Screw and DB9 terminal › Grounding option configurable › Integrated terminators › Redundant power supply
924-1BB10	VIPA Profibus-Term T1 › 9,6 Kbps up to 12 Mbps › Removable screw terminals and 1 DB9 terminal › Power supply specifications › Redundancy: current 1 OR 2 › Diagnostic LEDs



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Order no.	Name/Description
Ethernet-Switches	
910-1EN50	VIPA unmanaged 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 case for DIN rail mounting (wall mounting kit optional)
910-1EN80	VIPA unmanaged 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 12/24/48 VDC, 18 up to 30 VAC - IP30 aluminium case for DIN rail mounting (wall mounting kit optional)
911-2PN50	VIPA managed Industrial-Switch PN5-RD 5x RJ45 10/100BaseTX full-/half duplex, automatic MDI/MDI-X recognition - PROFINET v2 Conformance Class B, Profinet diagnosis via GSD integration - Assurance of service quality, based on IEEE 802.1p and TOS/DiffServ, improves the deterministic operation - Management functions such as IGMP Snooping, IEEE 802.1Q VLAN, QoS, Port Mirroring, SNMP, broad band management, and warning message by E-Mail or relay output - DHCP option 82 for IP address allocation with different allocation rules - Short boot times and recovery technologies Turbo Ring™ and Turbo Chain™ - Redundant power supply for 24 VDC - IP30 aluminium case for DIN rail mounting (wall mounting kit optional)
911-2PN80	VIPA managed Industrial-Switch PN8-RD 8x RJ45 10/100BaseTX full-/ half duplex, automatic MDI/MDI-X recognition - PROFINET v2 Conformance Class B, Profinet diagnosis via GSD integration - Assurance of service quality, based on IEEE 802.1p and TOS/DiffServ, improves the deterministic operation - Management function such as IGMP Snooping, IEEE 802.1Q VLAN, QoS, Port Mirroring, SNMP, broad band management, and warning message by E-Mail or relay output - DHCP option 82 for IP address allocation with different allocation rules - Short boot times and recovery technologies Turbo Ring™ and Turbo Chain™ - Redundant power supply for 24 VDC - IP30 aluminium case for DIN rail mounting (wall mounting kit optional)
FIELDBUS accessories	
972-ODP01	EasyConn 90° - PROFIBUS plug - Clock rate up to 12MBit/s - Metal case - PG jack - Switchable terminating resistor 90° outgoing cable - Packaging unit: 1 piece
972-ODP10	EasyConn 90° - PROFIBUS plug - Clock rate up to 12MBit/s - Metal case - PG jack - Switchable terminating resistor 90° outgoing cable - Bus diagnosis via LEDs - Packaging unit: 1 piece
972-ODP20	EasyConn 45° - PROFIBUS plug - Clock rate up to 12MBit/s - Metal case - PG jack - Switchable terminating resistor 45° outgoing cable - Bus diagnosis via LEDs - Packaging unit: 1 piece
972-ODP30	EasyConn 0° - PROFIBUS plug - Clock rate up to 12MBit/s - Metal case - Switchable terminating resistor 0° outgoing cable - Bus diagnosis via LEDs - Packaging unit: 1 piece



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Order no.	Name/Description
972-0PN00	PN/EC-Stecker 180° Field Plug ➤ PROFINET & EtherCAT plug ➤ Plug: RJ45 ➤ Connection: 8 wire ➤ Connection technique: IDC (insulation displacement connection) terminals ➤ Connection area: AWG24/1 - 22/1, AWG26/7 - 22/7 ➤ Cable diameter: 5,5 - 8,5 mm ➤ Allocation: T568A, T568B ➤ Industrial (4/8 wire) ➤ Packaging unit: 1 piece
972-8PN00	PN/EC-Stecker 180° Field Plug ➤ PROFINET & EtherCAT plug ➤ Plug: RJ45 ➤ Connection: 8 wire ➤ Connection technique: IDC (insulation displacement connection) terminals ➤ Connection area: AWG24/1 - 22/1, AWG26/7 - 22/7 ➤ Cable diameter: 5,5 - 8,5 mm ➤ Packaging unit: 10 pieces
Miscellaneous	
905-6AA00	EasyStrip ➤ Stripping tool for PROFIBUS cables
Cables	
830-0LC00	FCC 2xAWG 22 - Standard PROFIBUS cable ➤ 100m Cable reel
830-0LD00	FCC 2xAWG 22 - Standard PROFIBUS cable ➤ 200m Cable reel
830-0LE00	FCC 2xAWG 22 - Standard PROFIBUS cable ➤ 500m Cable reel
830-0LF00	FCC 2xAWG 22 - Standard PROFIBUS cable ➤ 1000m Cable reel
830-0PC00	PROFINET cable ➤ 100m Cable reel
830-0PD00	PROFINET cable ➤ 200m Cable reel
830-0PE00	PROFINET cable ➤ 500m Cable reel
830-0PF00	PROFINET cable ➤ 1000m Cable reel
950-0KB00	VIPA "Green Cable" ➤ only for CPU 11x, 21x, 31x, 51x
950-0KB01	PC/AG programming cable ➤ RS232-MPI/Profibus adapter, 3m
950-0KB10	PC/AG programming cable ➤ RS232-MPI/PPI adapter, LCD, 3m
950-0KB30	PC/AG programming cable ➤ USB-MPI/PROFIBUS adapter, LCD 3 m
950-0KB31	PC/AG programming cable ➤ USB-MPI/Profibus Adaptor, 3m
950-0KB40	PC/AG programming cable ➤ TCP/IP-MPI/PPI/Profibus adapter, LCD, 3m
950-0KB50	PC/AG programming cable ➤ MPI cable with with PU-/Diagnostic port, 2,5 m
Antennas and accessories	
900-0AB51	TM antenna GSM/UMTS ➤ Mobile antenna incl. 5 m cable ➤ SMA connector ➤ Resistance: 50 Ohm ➤ Power: 10 W ➤ Gain: 2.14 dBi ➤ 900/1800 MHz





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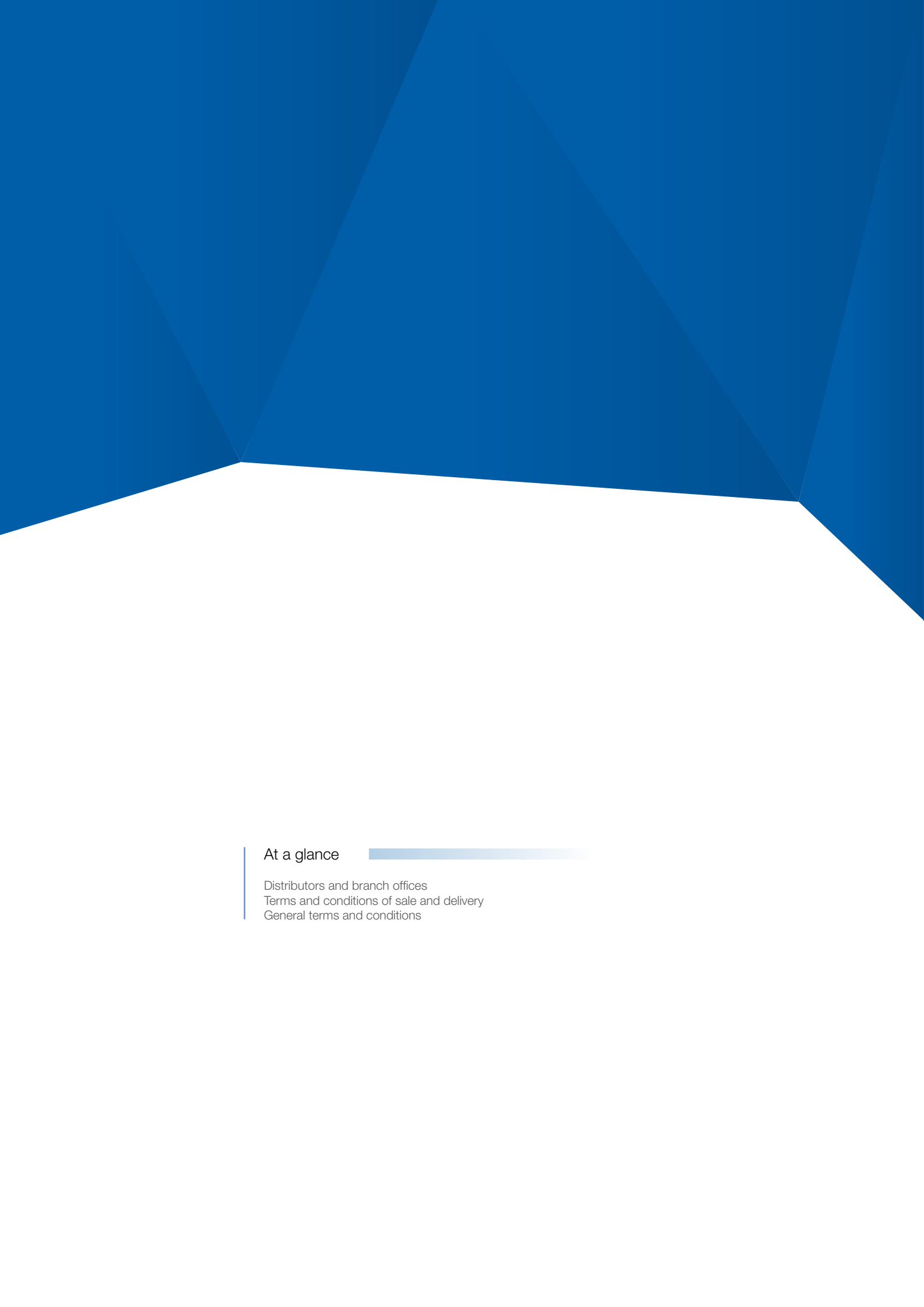
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At a glance

Distributors and branch offices
Terms and conditions of sale and delivery
General terms and conditions



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Distributors and branch offices

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Terms and conditions

General



The general supply and delivery terms are valid in their latest version (see next pages) as well as the addendum on extended retention of title. The prices are quoted in Euro (€) ex works, without insurance, freight and packaging. They do not include any VAT. Packaging cannot be returned. VAT will be indicated separately according to legal regulations and at the respective valid rate.

Minimum Order Value



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

Dispatch and packing costs



Export sales:

Dispatch will be organized on ex works basis with a forwarding agent/courier service named by customer; alternatively freight cost will be calculated and charged according to weight and/or volume on the basis of VIPA Germany's freight rates at local partners..

Domestic sales:

Order value to 1.000 €	= 10,00 €
1.001 € - 2.500 €	= 1,00% of net price
2.501 € - 5.000 €	= 0,85% of net price
5.001 € - 7.500 €	= 0,65% of net price
7.501 € and higher	= all inclusive 57,00 €

Freight charges for bulky goods (e.g. 2 m of rails and cable drums) are calculated separately.

of sale and delivery

Validity



This price list is valid from 01.07.2017.

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 customer documentation free of charge as PDF on our webpage.

The latest versions of all our manuals can be found on our homepage: www.vipa.com -> Service -> manuals.

For further information please contact us:

Export sales: +49 (0)9132/744 - 1675 or -1670

Domestic sales: +49 (0)9132 / 744 - 1730

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

Legend/Trademarks



MP2I = MPI + RS232

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Any liability for misprints or errors is excluded.

Availability and technical specifications are subject to change without notice.

General terms and conditions

1. General provisions

The following General Terms and Conditions of the Gesellschaft für Visualisierung und Prozessautomatisierung, hereinafter referred to as VIPA GmbH, shall apply for all present and future orders, deliveries and services (hereinafter referred to as: deliveries), unless expressly otherwise agreed by contract.

In case of deviations, supplements etc., we hereby expressly object to any conflicting or differing terms and conditions of contractual partners. We exclude all and any terms and conditions of contractual partners unless we expressly agree to them in writing.

2. Subject matter of the contract, scope of delivery, partial deliveries

- a) The offer and/or order confirmation of VIPA GmbH shall be decisive for the scope of delivery.
- b) Regarding cost estimates, drawings, wiring diagrams, samples, software source codes and other documentation, VIPA GmbH hereby retains its rights of ownership, copyrights and patent rights in their entirety. Such documents may only be made accessible to third parties with the prior written consent of VIPA GmbH. Drawings, wiring diagrams, samples, software source codes and other documentation that are part of the offer must be returned immediately on request in case the order is not awarded to VIPA GmbH. With regard to documents that were handed over to VIPA GmbH, the latter is entitled to make accessible such documents to third parties, as far as the company transfers services and deliveries to such third parties in a permissible way.
- c) VIPA GmbH is entitled to make partial deliveries, insofar as this is reasonable for the customer.

3. Prices and terms of payment, exclusion of set-off, cost estimates

- a) All the prices of VIPA GmbH are net prices quoted ex works, i.e. not including transport and packaging costs. All costs for delivery ex works, packaging, transport insurance etc. are invoiced separately. The same shall apply for the costs resulting from installation, erection and/or assembly, e.g. travel expenses. VAT will be charged separately. VIPA GmbH is entitled to charge a reminder fee of € 5.00 per reminder upon occurrence of a default.
- b) A set-off by the contractual partner is only permitted in case the outstanding claims are uncontested or established by final enforceable judgment. The same shall apply for any right of retention.
- c) Cost estimates shall be paid for.

4. Delivery period, deadlines, passing of risk

- a) Delivery dates and deadlines are not binding for VIPA GmbH unless it is agreed by contract that they are binding.
- b) The delivery time which was agreed upon shall be extended accordingly in the event of any circumstances beyond our control, which occur either in our own business or in that of a preliminary supplier. This applies in particular to strikes and lockouts as well as cases of force majeure which result from unforeseeable events or events over which the company and/or the preliminary suppliers have no control. VIPA GmbH undertakes to inform its contractual partners of any such delays as soon as they are foreseeable. If the performance of services by VIPA GmbH therefore becomes impossible or is seriously impaired, VIPA GmbH may cancel the contract wholly or in part. The customer is entitled to cancel the contract if VIPA GmbH does not perform the delivery after a written reminder until the end of a new appropriate deadline set by the customer. The compliance with expressly agreed delivery deadlines depends on the receipt in due time of all documents, necessary permits, clearances etc. which are to be supplied by the contractual partner, the clearance and approval of all plans in due time, as well as the compliance with the agreed terms of payment and other obligations by the contractual partner of VIPA GmbH. VIPA GmbH shall be entitled to exercise its right of retention despite a contractual delivery date in case due receivables from prior goods and services have not been settled by the contractual partner.
- c) The delivery deadline shall be considered met and the risk passes to the customer as soon as VIPA GmbH has handed over the item to the forwarding agent, the carrier or another person or institution responsible for dispatch or to the collector. If installation, erection or assembly is included in the scope of delivery, the risk shall pass and the delivery deadline shall be considered met on

the day of taking-over on the business premises of the contractual partner. If a test run was agreed, the latter shall be performed without delay after assembly and/or installation. If the dispatch, the assembly or installation/erection and/or the taking-over or a possible test run is delayed due to reasons for which the contractual partner is responsible or if a default of acceptance occurred, the risk shall pass to the contractual partner upon the start of delay caused by the contractual partner or upon occurrence of default of acceptance. This shall also apply for possible dispatches within the scope of replacement deliveries or after the performance of rectifications of defects by VIPA GmbH. The purchaser shall bear the risk for any reshipments effected by the customer to VIPA GmbH until the items of the reshipment are handed over in the premises of VIPA GmbH. Possible reshipments must always be free of carriage charges for VIPA GmbH.

5. Reservation of title

VIPA GmbH makes deliveries solely on the basis of the following reservation of title. This shall also apply to all future deliveries, even if VIPA GmbH does not make explicit reference to this.

- a) All deliveries / services are solely effected under reservation of title. VIPA GmbH shall remain the owner of the delivered goods until all accounts to which the company entitled from the customer as a result of the business relationship have been paid in full. The customer may neither pledge nor provide the goods as security to which we have retained ownership and it is also not allowed to resell such goods. The reseller is granted the revocable authorisation to resell such goods in the normal course of business, provided that its customers effect payment.
- b) As long as the ownership title has not been transferred, the customer shall be obliged to handle and stock the object of purchase with due care and to insure it at its own expense at replacement value against losses and damage from theft, fire and water. If any servicing or inspection work is required, the customer shall perform such work in due time at its own expense. As long as the ownership title has not been transferred, the customer shall be obliged to notify VIPA GmbH in writing as soon as possible in case the delivered item is pledged or is about to be pledged, retained or is threatened by execution or insolvency or is exposed to other third party interventions etc. In case of a compulsory execution or insolvency, the competent authorities must be informed about the ownership title of VIPA GmbH. The contractual partner shall be liable for damage resulting from neglect as well as for intervention expenses, if any. The expenses incurred by averting a seizure shall be borne by the customer. Where the third party is unable to reimburse the court and out-of-court expenses of a lawsuit pursuant to § 771 of the German Code of Civil Procedure (ZPO), the customer shall be liable for any loss incurred by VIPA GmbH.
- c) The customer shall be entitled to resell the goods subject to reservation of title in the normal course of business. The customer shall assign all purchase price and wage claims etc. arising from the resale of the goods subject to reservation of title to VIPA GmbH in the amount of the invoicing value including VAT. VIPA GmbH accepts this assignment. Such assignment shall be valid irrespective of the fact whether the goods were resold without or after processing. The customer shall be entitled to collect debts even after the assignment. The authority of VIPA GmbH to collect the debts itself shall not be affected by this. However, we undertake to refrain from collecting the claim as long as our contractual partner meets the payment obligations from the collected revenues, is not in delay of payment and, in particular, has not filed an application to open insolvency proceedings, and a cessation of payments does not exist.
- d) The processing, treatment or transformation of the purchased item shall always be made by the purchaser in the name and on behalf of VIPA GmbH. In this case, the customer shall continue to be eligible for the purchased item subsequent to processing or transformation. Should the purchased item be processed with other objects not belonging to VIPA GmbH, VIPA GmbH shall then acquire a joint ownership in the new item in the ratio of the value of the purchased item to the other processed objects at the time of processing. The same shall apply in the event of incorporation. If incorporation takes place in such a way that the customer's product is considered to be the main product, it is agreed that the customer shall transfer pro-rata joint ownership title to VIPA GmbH and shall safeguard on our behalf the sole title or joint title thereby arising. In order to secure the claims of VIPA GmbH against the customer, the latter shall assign to VIPA GmbH any claims that it acquires against a third party through the linking of the goods subject to reservation of title with a property. VIPA GmbH hereby accepts such assignment. VIPA GmbH undertakes to release the securities to which it is entitled, provided that their value exceeds the secured outstanding dues by more than 20%.

6. Claims for damages

- a) VIPA GmbH shall only assume liability if this is expressly agreed upon in writing or if an exclusion of liability is not permitted by law, e.g. in the event of willful intent or gross negligence or in case of harm to life, health and body or if the company is liable according to the Product Liability Act. Any other liability of VIPA GmbH, in particular claims for damages and reimbursement of expenses by the contractual partners, shall be excluded. Liability is also and particularly excluded in the case of non-performance or defective performance and for consequential losses or indirect damage. Liability of VIPA GmbH due to culpa in contrahendo shall be expressly excluded. VIPA GmbH hereby accepts this exclusion.
- b) Contractual penalties are not permissible unless expressly otherwise agreed in writing.

7. Limitation period, suspension of the limitation period

The limitation period for warranty claims and other claims against VIPA GmbH shall be twelve months. In case of shorter statutory limitation periods or shorter limitation periods agreed upon, such shorter limitation period shall apply. A shortening of the limitation period shall not be valid if this is excluded by law, in particular in case of fraudulent concealment of a defect. For deliveries to VIPA GmbH, the statutory limitation periods shall apply. The statutory regulations on suspension of statute of limitation, suspension of and restart of the limitation period shall not be affected by this. Settlement negotiations shall be deemed terminated in case VIPA GmbH does not respond in writing to a letter of the contractual partner after expiration of a period of 8 weeks.

8. Warranty

- a) A warranty beyond the statutory warranty regulations shall only be granted if such warranty is expressly stated in writing.
- b) The goods supplied by VIPA GmbH must be inspected immediately after handover. VIPA GmbH must be notified in writing immediately after receipt and/or inspection of the delivery of any defects, the lack of guaranteed qualities, transport damage, shortfall quantity, wrong deliveries etc and all processing or treatment works must be stopped immediately. Possible hidden defects must be communicated to us in writing as soon as they have been discovered. If such notification is not made in time, the delivery shall be deemed accepted. VIPA GmbH and the carrier must be notified in writing and without delay of any transport damage after receipt of goods. In case the notification of defects is justified and was made in time, VIPA GmbH shall be entitled to either rectify the defects, to effect a faultless replacement delivery and/or to render a faultless service. The contractual partner's right of reduction of the purchase price shall not be affected by unsuccessful rectification or cancellation of the contract.
- c) In case of the following, any warranty and/or any guarantee to which the company exceptionally consented in writing shall be excluded, unless the defect was fraudulently concealed:

Damage or losses resulting from faulty installation made by the customer or third parties or caused by improper use or fire, lightning strike, force majeure etc.

Repairs or repair attempts performed incorrectly or other interventions by the customers or other persons not authorised by VIPA GmbH

Damage caused by non-observance of the operating instructions or other instructions given by the staff of VIPA GmbH

Transport damage

Damage caused by the use of unsuitable or inferior replacement parts

Damage resulting from wear, humidity, strong heating of rooms or other effects of weather and temperature

Wear and tear parts

In case of negligible deviation from the agreed characteristics, in case of negligible impairment of serviceability or in case the model presents only minor deviations from the specifications in catalogues, advertising materials, samples etc.

Insufficient maintenance of the goods by the contractual partner

- d) No warranty is granted for second-hand goods supplied by VIPA GmbH. Second-hand goods are sold as seen.

- e) VIPA GmbH is entitled to claim compensation for the costs and expenses it incurred from the contractual partner in case the notification of defects was not justified. Claims from the purchaser towards VIPA GmbH for compensation of expenses, in particular transport costs and service assignments, due to supplementary performance, are excluded insofar as the expenses increase due to the fact that the object of delivery was subsequently carried to a place other than the agreed delivery address of the contractual partner.

- f) For any software, the conditions of the software licence of VIPA GmbH and of the software producer shall apply.

9. Impossibility of performance, adaptation of the contract

If it becomes impossible for VIPA GmbH to effect or provide the agreed delivery or service, the general legal principles shall apply as follows:

If the impossibility is the fault of VIPA GmbH, the contractual partner is entitled to make a claim for damages; however, such claim for damages of the purchaser shall be limited to 10% of the value of such part of the delivery or service that could not be used properly or put into service due to the impossibility of performance.

Any claims for damages exceeding the aforementioned 10% shall be excluded. This shall not apply in the event of willful intent or gross negligence, where liability is mandatory, or in case of harm to life, health and body.

The customer's right to withdraw from the contract shall not be affected by this.

In case unforeseeable events considerably modify the economic importance or the content of the delivery or service or affect the business operations of VIPA GmbH, the contract shall be adapted accordingly by VIPA GmbH, provided that this is compliant with the principles of good faith.

As far as this is not economically feasible, VIPA GmbH shall have the right to withdraw from the contract. When the company intends to make use of its right of withdrawal, it shall inform the purchaser of its intention as soon as the significance of the event will have fully come to its knowledge, i.e. also in such cases when an extension of the time of delivery was agreed with the purchaser.

10. Place of jurisdiction, place of performance, applicable law

- a) The sole local and international place of jurisdiction (if the contractual partner is a merchant) for all disputes arising directly or indirectly from the contract shall be the registered office of VIPA GmbH.
- b) The contractual relationship shall be subject to German substantive law only.
- c) The place of performance for deliveries and services of VIPA GmbH shall be the registered office of VIPA GmbH.

11. Authorisations, foreign countries

The contractual partner shall be responsible for and obtain official authorisations that may be required, in particular export licences. VIPA GmbH shall not be responsible or liable for possible official authorisations, in particular export licences, that may be required. The contractual partner is obliged to comply with all export provisions and export restrictions and all other provisions of the foreign trade legislations, in particular those of Germany, the EU and the EU member states, and to ensure that its contractual partners and third parties comply with these provisions as well. The contractual partner shall be obliged to make all required notifications, to provide all required information and to make all other necessary declarations to foreign authorities duly and completely.

The contractual partner shall pay all required customs duties, taxes or levies which may arise from a delivery into or the rendering of a service in a foreign country.

12. Other provisions, validity of the contract, authorisations

Should one or several provisions of the contract, including these General Terms and Conditions, be invalid, the validity of the contract or the General Terms and Conditions as a whole shall not be effected. In this case, the parties undertake to replace the invalid provision by a valid one which comes closest to the economic purpose of the invalid provision. The same shall be done in case of contractual gaps.

Changes and amendments to the contract must be effected in writing in order to be effective.

VIPA Controls worldwide

...in about 60 countries at home



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