YASKAWA

2018/19

System Summary

for specialists in automation and control technology

10/2018

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Contents

VIPA MICRO

MICRO

Order no.	Name/Description
CPUs STEP7 programmierbar, C-Klasse	
M13-CCF0000	**CPU M13C** › Powered by SPEED7 › Work memory [KB]: 64...128 › Onboard: 16x DI / 12x DO / 2x AI [voltage 0...10 V] / 4x Counter / 2x [PWM/Pulse Train] › Interface [2x RJ45]: active Ethernet PG/OP communication with DHCP support, switch, ModbusTCP master/ slave, openCommunication, SmartPROFINET (iDevice) › Optional: [2x RS485]: MPI, PROFIBUS slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/ slave › Web server › SD 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)** › Industrial SD card › 512 Mbyte (Industrial SLC) › Extremely robust against EMC, shock and vibration › Temperature range -40 up to 85°C › Water-/dust proof in accordance with IP57/IP67 › MTBF (25°C) >5.000.000h › unrecorded
Digital input modules	
M21-1BH00	**SM M21 - Digital input** › 16x DI › DC 24 V
Digital output modules	
M22-1BH00	**SM M22 - Digital output** › 16x DO › DC 24 V › 0,5 A
M22-1HF10	**SM M22 - Digital output** › 8x DO › AC 230 V › 2 A relay
Digital in/output modules	
M23-1BH00	**SM M23 - Digital output** › 8x DI › 8x DO › DC 24 V › 0.5 A
Analog input modules	
M31-1CD50	**SM M31 - Analog input** › 4x AI › 16 Bit › Voltage 0...10 V +-10 V › Current 0/4...20 mA › Resistance 0....3000 Ohm, RTD, Pt100, Pt1000, NI100, NI1000 in 2/3/4 conductor measurement › TC type J, K, N, R, S, T, B, C, E, L and U +-80 mV
Analog output modules	
M32-1BD40	**SM M32 - Analog output** › 4x AO › 12 Bit › Current 0/4...20 mA
M32-1BD70	**SM M32 - Analog output** › 4x AO › 12 Bit › Voltage 0...10 V +-10 V

MICRO

Order no.	Name/Description
Erweiterung	
M09-0CB00	**MICRO Extension 2xRS485** › Interface [1x RS422/RS485]: PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave › Interface [1x RS485]: MPI, optional PROFIBUS slave
Netzteile	
M07-2BA00	**PS M07 - Power supply** › Input AC 120-240 V › Output 24V DC 1.5 A 36 W › Efficiency > 89 %

VIPA SLIO

SLIO

Order no.	Name/Description
CPUs STEP7 programmable, standard	
014-CEF0R01	**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) › 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, PROFINET	
015-CEFPR01	**CPU 015PN** › Powered by SPEED7 › Work memory [KB]: 256...512 › Integrated PROFINET controller › Interface [2x RJ45]: PROFINET, ModbusTCP Master/Slave, openCommunication › 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	**CPU 017PN** › Powered by SPEED7 › Work memory [KB]: 512...2.048 › Integrated PROFINET controller › Interface [2x RJ45]: PROFINET, ModbusTCP master/slave, openCommunication › 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-CEFNR00	**CPU 015N** › Powered by SPEED7 › SD card slot with locking, up tp 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 Ethernet PG/OP-communication with DHCP support, switch, ModbusTCP master/slave, openCommunication, SmartPROFINET (iDevice) › 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
CPUs STEP7 programmierbar, C-Klasse	
013-CCF0R00	**CPU 013C** › Powered by SPEED7 › Work memory [KB]: 64...128 › Onboard 16x DI / 12x DO / 2x AI [voltage 0...10 V]] / 4x Counter / 2x [PWM/Pulse Train] › Interface [2x RJ45]: active Ethernet PG/OP communication with DHCP support, switch, ModbusTCP master/slave, openCommunication, SmartPROFINET (iDevice) › 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
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

SLIO

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-C0MEM40	**VIPASetCard 041 (VSC)** › 256 KB › Motion control 4-axes › PROFIBUS master
955-C0NEM40	**VIPASetCard 042 (VSC)** › 256 KB › Motion control 8-axes › PROFIBUS master
955-C0PEM40	**VIPASetCard 043 (VSC)** › 256 KB › Motion control 20-axes › PROFIBUS master
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)** › Industrial SD card › 512 Mbyte (Industrial SLC) › Extremely robust against EMC, shock and vibration › Temperature range -40 up to 85°C › Water-/dust proof in accordance with IP57/IP67 › MTBF (25°C) >5.000.000h › unrecorded
Clamp modules	
001-1BA00	**CM 001 - Potential distributor module** › 8x DC 24 V clamps
001-1BA10	**CM 001 - Potential distributor module** › 8x DC 0 V clamps
001-1BA20	**CM 001 - Potential distributor module** › 4x DC 24 V clamps › 4x DC 0 V clamps

SLIO

Order no.	Name/Description
Power modules	
007-0AA00	**PM 007 - Power module** › Power supply DC 24 V › (Only electronic module as a spare part for PLC and field bus module)
007-1AB00	**PM 007 - Power module** › Output supply › Power supply DC 24 V › 10 A › Reverse polarity protection › Overvoltage protection
007-1AB10	**PM 007 - Power module** › Output supply › Power supply DC 24 V, 4 A › Power supply DC 24 V for bus supply 5 V, 2 A › Reverse polarity protection › Overvoltage protection › Module supply
Digital input modules	
021-1BB00	**SM 021 - Digital input** › 2x DI › DC 24 V
021-1BB10	**SM 021 - Digital input** › 2x DI (fast) › DC 24 V › Input filter time delay parameterizable 2 µs...4 ms
021-1BD00	**SM 021 - Digital input** › 4x DI › DC 24 V
021-1BD10	**SM 021 - Digital input** › 4x DI (fast) › DC 24 V › Input filter time delay parameterizable 2 µs...4 ms
021-1BD40	**SM 021 - Digital input** › 4x DI › DC 24 V › Connect 2/3 wire
021-1BD50	**SM 021 - Digital input** › 4x DI › DC 24 V › NPN
021-1BD70	**SM 021 - Digital input** › 4x DI › DC 24 V › Input filter time delay parameterizable 2 µs...3 ms › ETS function with µsec time stamp
021-1BF00	**SM 021 - Digital input** › 8x DI › DC 24 V
021-1BF01	**SM 021 - Digital input** › 8x DI › DC 24 V › 0.5 ms time delay
021-1BF50	**SM 021 - Digital input** › 8x DI › DC 24 V › NPN
021-1DF00	**SM 021 - Digital input** › 8x DI › DC 24 V › Diagnostic of wiring errors
021-1SD00	**SM 021 - Digital input** › 4x SDI › DC 24 V › Safety / PROFIsafe

SLIO

Order no.	Name/Description
Digital output modules	
022-1BB00	**SM 022 - Digital output** › 2x DO › DC 24 V › 0.5 A
022-1BB90	**SM 022 - Digital output** › 2x DO › DC 24 V › 0.5 A › PWM till 40 kHz
022-1BD00	**SM 022 - Digital output** › 4x DO › DC 24 V › 0.5 A
022-1BD20	**SM 022 - Digital output** › 4x DO › DC 24 V › 2 A
022-1BD50	**SM 022 - Digital output** › 4x DO › DC 24 V › 0.5 A › NPN
022-1BD70	**SM 022 - Digital output** › 4x DO › DC 24 V › 0.5 A › ETS function – control the exact µs by using time stamp
022-1BF00	**SM 022 - Digital output** › 8x DO › DC 24 V › 0.5 A
022-1BF50	**SM 022 - Digital output** › 8x DO › DC 24 V › 0.5 A › NPN
022-1HB10	**SM 022 - Digital output** › 2x DO › DC 30 V › AC 230 V › 3 A › Potential separated per channel › Relay
022-1HD10	**SM 022 - Digital output** › 4x DO › DC 30 V › AC 230 V › 1.8 A › Potential separated per group (2 channel) › Relay
022-1DF00	**SM 022 - Digital output** › 8x DO › DC 24 V › 0.5 A › Diagnostic of wiring errors
022-1SD00	**SM 022 - Digital output** › 4x SDO › DC 24 V › 0.5 A › Safety / PROFIsafe

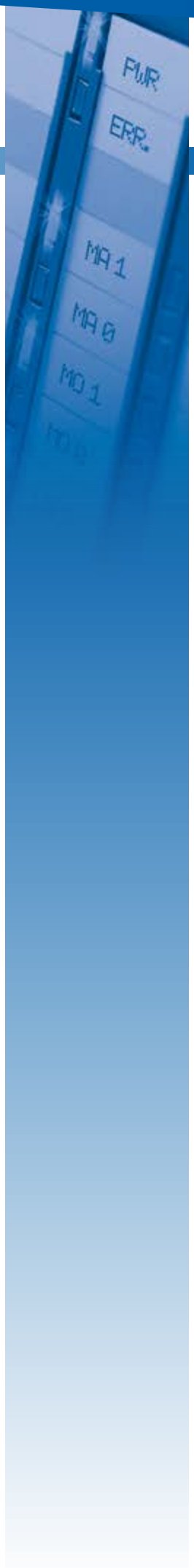
SLIO

Order no.	Name/Description
Analog input modules	
031-1BB10	**SM 031 - Analog input** › 2x AI › 12 Bit › Current 0(4)…20 mA › 2 wire › Potential separated per channel
031-1BB30	**SM 031 - Analog input** › 2x AI › 12 Bit › Voltage 0…10 V
031-1BB40	**SM 031 - Analog input** › 2x AI › 12 Bit › Current 0(4)…20 mA
031-1BB60	**SM 031 - Analog input** › 2x AI › 12 Bit › Current 0(4)…20 mA › 2 wire
031-1BB70	**SM 031 - Analog input** › 2x AI › 12 Bit › Voltage -10 V…+10 V
031-1BB90	**SM 031 - Analog input** › 2x AI › 16 Bit › Voltage -80 mV…+80 mV › TC type J, K, N, R, S, T, B, C, E, L
031-1BD30	**SM 031 - Analog input** › 4x AI › 12 Bit › Voltage 0…10 V
031-1BD40	**SM 031 - Analog input** › 4x AI › 12 Bit › Current 0(4)…20 mA
031-1BD70	**SM 031 - Analog input** › 4x AI › 12 Bit › Voltage -10 V…+10 V
031-1BD80	**SM 031 - Analog input** › 4x AI › 16 Bit › Resistance 0…3000 Ohm › Resistance measurement with 2-, 3- and 4-wires › Resistance temperature transmitter Pt100, Pt1000, NI100 und NI1000
031-1BF60	**SM 031 - Analog input** › 8x AI single ended (reference potential 0V) › 12 Bit › Current 0(4)...20 mA › Separate parameterizable inputs › Isolated opposite backplane bus
031-1BF74	**SM 031 - Analog input** › 8x AI single ended (reference potential 0V) › 12 Bit › Voltage 0...10 V +-10 V › Separate parameterizable inputs › Isolated opposite backplane bus
031-1CB30	**SM 031 - Analog input** › 2x AI › 16 Bit › Voltage 0…10 V
031-1CB40	**SM 031 - Analog input** › 2x AI › 16 Bit › Current 0(4)…20 mA
031-1CB70	**SM 031 - Analog input** › 2x AI › 16 Bit › Voltage -10 V…+10 V

SLIO

Order no.	Name/Description
031-1CD30	**SM 031 - Analog input** › 4x AI › 16 Bit › Voltage 0…10 V
031-1CD35	**SM 031 - Analog input** › 4x AI › 16 Bit › Voltage 0…10 V › Reduced parameter bytes
031-1CD40	**SM 031 - Analog input** › 4x AI › 16 Bit › Current 0(4)…20 mA
031-1CD45	**SM 031 - Analog input** › 4x AI › 16 Bit › Current 0(4)…20 mA › Reduced parameter bytes
031-1CD70	**SM 031 - Analog input** › 4x AI › 16 Bit › Voltage -10 V…+10 V
031-1LB90	**SM 031 - Analog input** › 2x AI › 16 Bit › Voltage -80 mV...+80 mV › TC type J, K, N, R, S, T, B, C, E, L › Reduced parameter bytes
031-1LD80	**SM 031 - Analog input** › 4x AI › 16 Bit › Resistance 0…3000 Ohm › Resistance measurement 2-, 3-, and 4-wires › Resistance temperature transmitter Pt100, Pt1000, NI100 and NI1000 › Reduced parameter bytes
DMS-Module	
031-1CA20	**SM 031 - Analog input** › Direct connection of a resistor full bridge (DMS) or load cell › 4- or 6-wire connection 16 (24) Bit resolution › Auto self calibration zero point and final value › Absolute exactness radical error ±0,1 % (± 0,01 %) › Onboard power supply 2V5, 5 V, 7V5, 10 V und 12 V
Energiemess-Module	
031-1PA10	**Energy measurement module** › AI1x 3Ph 230/400V 1/5A › Remanent storage of the energy values | diagnostic function › Resolution measurement 24 Bit › 3-phase and N-conductor › Electrical efficiency | elektrical work › Harmonic harmonics › Phase delay cos › Frequency
031-1PA00	**Energy measurement module** › AI1x 3Ph 230/400V 1A › Remanent storage of the energy values | diagnostic function › Resolution measurement 24 Bit › 3-phase and N-conductor › Electrical efficiency | elektrical work › Harmonic harmonics › Phase delay cos › Frequency

SLIO



Order no.	Name/Description
Analog output modules	
032-1BB30	**SM 032 - Analog output** › 2x AO › 12 Bit › Voltage 0…10 V
032-1BB40	**SM 032 - Analog output** › 2x AO › 12 Bit › Current 0(4)…20 mA
032-1BB70	**SM 032 - Analog output** › 2x AO › 12 Bit › Voltage -10 V…+10 V
032-1BD30	**SM 032 - Analog output** › 4x AO › 12 Bit › Voltage 0…10 V
032-1BD40	**SM 032 - Analog output** › 4x AO › 12 Bit › Current 0(4)…20 mA
032-1BD70	**SM 032 - Analog output** › 4x AO › 12 Bit › Voltage -10 V…+10 V
032-1CB30	**SM 032 - Analog output** › 2x AO › 16 Bit › Voltage 0…10 V
032-1CB40	**SM 032 - Analog output** › 2x AO › 16 Bit › Current 0(4)…20 mA
032-1CB70	**SM 032 - Analog output** › 2x AO › 16 Bit › Voltage -10 V…+10 V
032-1CD30	**SM 032 - Analog output** › 4x AO › 16 Bit › Voltage 0…10 V
032-1CD40	**SM 032 - Analog output** › 4x AO › 16 Bit › Current 0(4)…20 mA
032-1CD70	**SM 032 - Analog output** › 4x AO › 16 Bit › 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 Modbus RTU (master, slave)
040-1CA00	**CP 040 - Communication processor** › RS422/485 interface › Protocols ASCII, STX/ETX, 3964(R) and Modbus RTU (master, slave)
Positinier-Module	
054-1BA00	**FM054 – Stepper motor module** › 1-channel with feedback › 4 inputs/outputs DC 24 V, 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 24 V, 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

SLIO

Order no.	Name/Description
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 › Comparison function › Alarm function › Diagnostic function
Counter modules	
050-1BA00	**FM 050 - Counter module** › 1x Counter 32 Bit (AB), DC 24 V › Up to 400 kHz › 1x DO, DC 24 V › 0,5 A
050-1BA10	**FM 050 - Counter module** › 1x Counter 32 Bit (AB), DC 5 V › Up to 2 MHz (difference signal)
050-1BB00	**FM 050 - Counter module** › 2x Counter 32 Bit (AB), DC 24 V › Up to 400 kHz
050-1BB30	**FM 050 - Counter module Eco** › 2x Counter 32 Bit (AB) DC 24 V › Up to 400 kHz
050-1BB40	**FM 050 - Frequency measurement** › Frequency measurement › 2x Counter 24 Bit (AB), DC 24 V › Up to 600 kHz
Fieldbus slave modules without I/Os	
053-1CA00	**IM 053CAN - CANopen slave** › 16x Rx and 16x Tx PDOs › 2x SDOs › PDO-Linking › PDO-Mapping: fix › Up to 64 peripheral modules
053-1DN00	**IM 053DN - DeviceNet slave** › Group 2 only Device › Poll only Device › Baud rate: 125, 250 and 500 Kbit/s › Up to 64 peripheral modules
053-1DP00	**IM 053DP - PROFIBUS-DP slave** › DP-V0, DP-V1 › 244 byte input and 244 byte output data › 244 byte parameter data › Various diagnostics functions › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Status LEDs › Up to 64 peripheral modules
053-1EC00	**IM 053EC - EtherCAT slave** › 2-Port Switch RJ45 100BaseTX fullduplex › Supports the application profile: CoE, EoE › Various diagnostics functions › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Status LEDs › Up to 64 peripheral modules
053-1EC01	**IM 053EC - EtherCAT slave** › 2-Port Switch RJ45 100BaseTX fullduplex › Up to 64 peripheral modules › Supports the application profile: CoE, EoE, FoE › Supports FMM (Free Module Mapping) › Various diagnostics functions › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Operation Modes (FreeRun, SyncManager-Event, Distributed Clock) › Supports HotConnect, Easy Maintenance › Web server integrated › Status LEDs
053-1IP00	**IM 053IP - EtherNet/IP slave** › CIP › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Status LED › Up to 64 peripheral modules

SLIO

Order no.	Name/Description
053-1ML00	**IM 053ML - MECHATROLINK** › MECHATROLINK according to IEC 61158, IEC 61784 › Up to 64 peripheral modules › Supports standard I/O profile (16byte and 64byte mode) › Multi slave node with max. 9 stations › Max. 492byte input and 492byte output data › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Integrated Web server › Configuration is done via software tool respectively Web server
053-1MT00	**IM 053MT - Modbus/TCP slave** › Configuration about the integrated web server › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Up to 64 peripheral modules
053-1PN00	**IM 053PN - PROFINET-IO slave** › Integrated 2-port switch › Transfer rate 100Mbit/s full-duplex › Supports MRP slave as MRP client, FMM (Free Module Mapping) › Supports shared device with up to 3 connections › Supports multiple and single write (acyclic communication) › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Status LEDs › Up to 64 peripheral modules
053-1PN01	**IM 053PN - PROFINET-IO slave** › Integrated 2-port switch › Up to 64 peripheral modules › Transfer rate 100Mbit/s full-duplex › Supports MRP slave as MRP client, FMM (Free Module Mapping), Easy Maintenance › Supports shared device with up to 3 connections › Supports IRT (Isochronous Real Time communication) › Supports multiple and single write (acyclic communication) › Integrated Web server › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Status LEDs
Line extensions	
060-1AA00	**IM060 Line Extension** › Extension to another line › Connector: 1x RJ45 plug connector › Module width 25,8 mm › Connection: CAT6 cable › Maximum length: 2 m › Module is always installed at the last place in the line › Module IM060 and IM061 always form a pair
061-1BA00	**IM061 Line Extension** › Extension up to 8 additional lines (up to 64 modules) › Connector: 1x RJ45 plug connector › Module width 48.5 mm › Connection: CAT6 cable › Maximum length: 2 m › Module is always installed at the first place in the line › Module IM060 and IM061 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** › Length: 2 m › Connector: 2x RJ45 › Plug connector › Required to connect the modules IM060 and IM061
Miscellaneous	
000-0AA00	**SLIO bus cover** › 1 piece
000-0AB00	**SLIO shield bus carrier** › 10 pieces
000-0AC00	**SLIO shield bus carrier** › 100 pieces › For secure coding of SLIO modules
000-0DN00	**SLIO bus cover** › 1 piece › For IM 053-1DN00 › Contact surface: gold › Pole number: 5 › Contact termination: spring force connection


PWR
ERR.
MA 1
MA 0
MD 1

VIPA 100V

100V

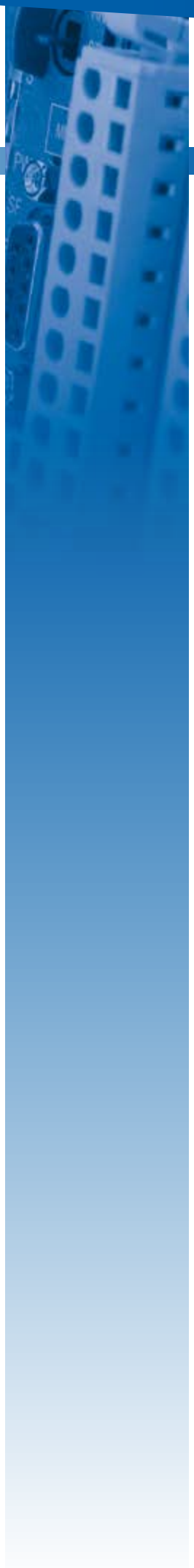
Order no.	Name/Description
CPUs STEP7 programmable	
112-4BH02	**VIPA CPU 112 - Micro PLC** › Work memory [KB]: 8 › Onboard 8x DI / 4x DO / 4x DIO › Interface [MP²I]: MPI › MMC card slot, not expandable › Programmable with WinPLC7(lite) and SIMATIC Manager › WinPLC7(lite) please order separate SW211K2OD
114-6BJ04	**VIPA CPU 114 - Micro PLC** › Work memory [KB]: 32 › Onboard 16x DI / 4x DO / 4x DIO / 2x Counter / 2x PWM › Interface [MP²I]: MPI › MMC card slot, up to 4 modules stackable (100V or 200V) › Programmable with WinPLC7(lite) and SIMATIC Manager › WinPLC7(lite) please order separate SW211K2OD
114-6BJ54	**VIPA CPU 114R - Micro PLC** › Work memory [KB]: 32 › Onboard 16x DI / 8x DO relay / 2x Counter › Interface [MP²I]: MPI › MMC card slot, up to 4 modules stackable (100V or 200V) › Programmable with WinPLC7(lite) and SIMATIC Manager › WinPLC7(lite) please order separate SW211K2OD
115-6BL04	**VIPA CPU 115 - Micro PLC** › Work memory [KB]: 32 › Onboard 16x DI / 12x DO / 4x DIO / 2x Counter / 2x PWM › Interface [MP²I]: MPI › MMC card slot, up to 4 modules stackable (100V or 200V) › Programmable with WinPLC7(lite) and SIMATIC Manager › WinPLC7(lite) please order separate SW211K2OD
CPUs STEP7 programmable, PtP	
115-6BL14	**VIPA CPU 115SER - Micro PLC** › Work memory [KB]: 32 › Onboard 16x DI / 12x DO / 4x DIO / 2x Counter / 2x PWM › Interface [MP²I]: MPI › Interface [RS232/PtP]: ASCII, STX/ETX, 3964R, Modbus master/slave, USS master › MMC card slot, up to 4 modules stackable (100V or 200V) › Programmable with WinPLC7(lite) and SIMATIC Manager › WinPLC7(lite) please order separate SW211K2OD
CPUs STEP7 programmable, DP slave	
115-6BL22	**VIPA CPU 115DP - Micro PLC** › Work memory [KB]: 16 › Onboard 16x DI / 12x DO / 4x DIO / 2x Counter / 2x PWM › Interface [MP²I]: MPI › Interface [RS485]: PROFIBUS-DP slave › MMC card slot, up to 4 modules stackable (100V or 200V) › Programmable with WinPLC7(lite) and SIMATIC Manager › WinPLC7(lite) please order separate SW211K2OD
115-6BL24	**VIPA CPU 115DP - Micro PLC** › Work memory [KB]: 32 › Onboard 16x DI / 12x DO / 4x DIO / 2x Counter / 2x PWM › Interface [MP²I]: MPI › Interface [RS485]: PROFIBUS-DP slave › MMC card slot, up to 4 modules stackable (100V or 200V) › Programmable with WinPLC7(lite) and SIMATIC Manager › WinPLC7(lite) please order separate SW211K2OD
Clamp modules	
101-4FH50	**CM 101 - Clamp modules** › 8x 11 clamps › Passive
Digital in/output modules	
123-4EH01	**EM 123 - Expansion module, digital** › 8x DI › 8x DO › DC 24 V › 0,5 A › Isolated
123-4EJ01	**EM 123 - Expansion module, digital** › 16x DI › 8x DO › DC 24 V › 0,5 A › Isolated

100V

Order no.	Name/Description
123-4EL01	**EM 123 - Expansion module, digital** › 16x DI › 16x DO › DC 24 V › 0,5 A › Isolated
Analog in/output modules	
134-4EE00	**EM 134 - Expansion module, analog** › 3x AI / 1x AI Pt, Ni, R › 2x AO › 12 Bit › Voltage +/- 10 V, 1...5 V, 0…10 V › Current +/-20 mA, 0/4…20 mA › Resistance-/ temperature measurement › Parameterizable
Fieldbus slave modules with I/Os, DIO	
153-4PH00	**SM 153 - PROFIBUS-DP slave, digital** › 8x DI, DC 24 V › 8x DO, DC 24 V, 1 A
153-6PL00	**SM 153 - PROFIBUS-DP slave, digital** › 16x DI, DC 24 V › 16x DO, DC 24 V, 1 A
153-6PL10	**SM 153 - PROFIBUS-DP slave, digital** › 24x DI, DC 24 V › 8x DO, DC 24 V, 1 A
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 › Cage clamps
MMC memory	
953-0KX10	**MMC - MultiMediaCard** › MMC for VIPA CPUs 11x, 21x, 24x, 31x and 51x › MMC for 208-1DP01 and CC 03

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 › Programmable with WinPLC7 and SIMATIC Manager
214-1BA06	**VIPA CPU 214** › Work memory [KB]: 96 › Interface [RS485]: MPI › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7, SIMATIC Manager and TIA Portal
214-1BC03	**VIPA CPU 214** › Work memory [KB]: 48 › Interface [RS485]: MPI › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7 and SIMATIC Manager
214-1BC06	**VIPA CPU 214** › Work memory [KB]: 48 › Interface [RS485]: MPI › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7, 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 WinPLC7 and SIMATIC Manager
215-1BA06	**VIPA CPU 215** › Work memory [KB]: 128 › Interface [RS485]: MPI › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7, 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 WinPLC7 and SIMATIC Manager
214-2BT13	**VIPA CPU 214NET PG** › Work memory [KB]: 96 › Integrated Ethernet CP 243 › Interface [RJ45]: active Ethernet & PG/OP communication › Interface [RS485]: MPI › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7, SIMATIC Manager and NetPro
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 WinPLC7 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 WinPLC7, SIMATIC Manager and TIA Portal
215-2BT13	**VIPA CPU 215NET PG** › Work memory [KB]: 128 › Integrated Ethernet CP 243 › Interface [RJ45]: active Ethernet CP 343 & PG/OP communication › Interface [RS485]: MPI › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7, SIMATIC Manager and NetPro
215-2BT16	**VIPA CPU 215NET PG** › Work memory [KB]: 128 › Integrated Ethernet CP 243 › Interface [RJ45]: active Ethernet PG/OP communication › Interface [RS485]: MPI › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7, SIMATIC Manager and TIA Portal

200V

Order no.	Name/Description
CPUs STEP7 programmable, PtP	
214-2BS13	**VIPA CPU 214SER RS232** › Work memory [KB]: 96 › Interface [RS232]: MPI › Interface [RS232]: PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7 and SIMATIC Manager
214-2BS33	**VIPA CPU 214SER RS485** › Work memory [KB]: 96 › Interface [RS485]: MPI › Interface [RS485]: PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7 and SIMATIC Manager
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 WinPLC7 and SIMATIC Manager
215-2BS33	**VIPA CPU 215SER RS485** › Work memory [KB]: 128 › Interface [RS485]: MPI › Interface [RS485]: PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7 and SIMATIC Manager
CPUs STEP7 programmable, DP master	
214-2BM06	**VIPA CPU 214DPM** › Work memory [KB]: 96 › Interface [RS485]: MPI › Interface [RS485]: PROFIBUS-DP master › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7, SIMATIC Manager and TIA Portal
215-2BM03	**VIPA CPU 215DPM** › Work memory [KB]: 128 › Interface [RS485]: MPI › Interface [RS485]: PROFIBUS-DP master › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7 and SIMATIC Manager
CPUs STEP7 programmable, DP slave	
214-2BP03	**VIPA CPU 214DP** › Work memory [KB]: 96 › Interface [RS485]: MPI › Interface [RS485]: PROFIBUS-DP slave › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7 and SIMATIC Manager
215-2BP03	**VIPA CPU 215DP** › Work memory [KB]: 128 › Interface [RS485]: MPI › Interface [RS485]: PROFIBUS-DP slave › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7 and SIMATIC Manager
CPUs STEP7 programmable, CAN master	
215-2CM03	**VIPA CPU 215CAN** › Work memory [KB]: 128 › Interface [9pol. Sub-D]: CANopen master › Interface [RS485]: MPI › MMC card slot, up to 32 expansion modules › Programmable with WinPLC7 and SIMATIC Manager
Clamp modules	
201-1AA00	**CM 201 - Double clamps module** › 2x 11 clamps, grey/grey › Passive
201-1AA10	**CM 201 - Double clamps module** › 2x 11 clamps, green-yellow/gray › Passive
201-1AA20	**CM 201 - Double clamps module** › 2x 11 clamps, red/blue › Passive
201-1AA40	**CM 201 - 4-tier clamps module** › 2x 5 clamps, grey/grey › 2x 6 clamps, red/blue › Passive

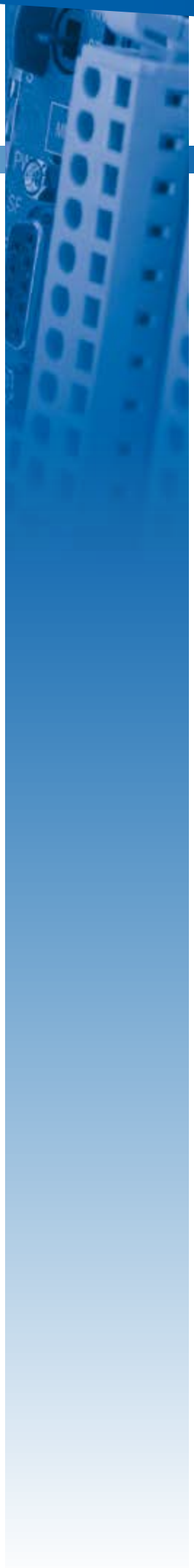
200V

Order no.	Name/Description
Power supply	
207-1BA00	**PS 207 - Power supply** › AC 100…240 V without manual intervention › DC 24 V › 2 A › 48 W
207-2BA20	**PS 207 - Power supply** › 2x 11 clamps, red/blue › AC 100…240 V without manual intervention › DC 24 V › 2 A › 48 W
Digital input modules	
221-1BF00	**SM 221 - Digital input** › 8x DI › DC 24 V
221-1BF10	**SM 221 - Digital input** › 8x DI › DC 24 V › Delay time 0.2 ms
221-1BF21	**SM 221 - Digital input** › 8x DI › DC 24 V › Delay time 0.2 ms › Alarm
221-1BF30	**SM 221 - Digital input ECO** › 8x DI › DC 24 V
221-1BF50	**SM 221 - Digital input** › 8x DI › DC 24 V › NPN
221-1BH00	**SM 221 - Digital input** › 16x DI › DC 24 V › For conversion module UB4x › With LED status display
221-1BH10	**SM 221 - Digital input** › 16x DI › DC 24 V
221-1BH20	**SM 221 - Digital input** › 16x DI › DC 24 V › 2 inputs configurable as counter 1x 32 bit › Up to 100 kHz › LED status display
221-1BH30	**SM 221 - Digital input ECO** › 16x DI › DC 24 V
221-1BH50	**SM 221 - Digital input** › 16x DI › DC 24 V › NPN › For conversion module UB4x › With LED status display
221-1FF50	**SM 221 - Digital input** › 8x DI › AC/DC 180...265 V
221-2BL10	**SM 221 - Digital input** › 32x DI › DC 24 V

200V

Order no.	Name/Description
Digital input with counter	
221-1BH20	**SM 221 - Digital input** › 16x DI › DC 24 V › 2 inputs configurable as counter 1x 32 bit › Up to 100 kHz › LED status display
Digital output modules	
222-1BF00	**SM 222 - Digital output** › 8x DO › DC 24 V › 1 A
222-1BF10	**SM 222 - Digital output** › 8x DO › DC 24 V › 2 A
222-1BF30	**SM 222 - Digital output ECO** › 8x DO › DC 24 V › 0.5 A
222-1BH00	**SM 222 - Digital output** › 16x DO › DC 24 V › 0.5 A › For conversion module UB4x › With LED status display
222-1BH10	**SM 222 - Digital output** › 16x DO › DC 24 V › 1 A › Total current up to 10 A
222-1BH20	**SM 222 - Digital output** › 16x DO › DC 24 V › 2 A › Total current up to 10 A
222-1BH30	**SM 222 - Digital output ECO** › 16x DO › DC 24 V › 0.5 A
222-1BH50	**SM 222 - Digital output** › 16x DO › DC 24 V › 0.5 A › NPN › For conversion module UB4x
222-1BH51	**SM 222 - Digital output** › 16x DO › DC 24 V › 0.5 A › NPN
222-1FF00	**SM 222 - Digital output** › 8x DO › DC 400 V › AC 230 V › 0.5 A › Solid-state relay
222-1HD10	**SM 222 - Digital output** › 4x DO › DC 30 V › AC 230 V › 5 A › Isolated per channel › Relay
222-1HF00	**SM 222 - Digital output** › 8x DO › DC 30 V › AC 230 V › 5 A › Relay
222-2BL10	**SM 222 - Digital output** › 32x DO › DC 24 V › 1 A › 2 groups each 16x DO › Total current per group 10 A

200V



Order no.	Name/Description
Digital in/output modules	
223-1BF00	**SM 223 - Digital in-/output** › 8x DIO › DC 24 V › DO 1 A › Diagnostic function
223-2BL10	**SM 223 - Digital in-/output** › 16x DI › 16x DO › DC 24 V › 1 A › Total current up to 10 A
Analog input modules	
231-1BD30	**SM 231 - Analog input ECO** › 4x AI › 12 Bit › Voltage +/-10 V › Parameterizable
231-1BD40	**SM 231 - Analog input ECO** › 4x AI › 12 Bit › Current 4...20 mA, +/-20 mA › Parameterizable
231-1BD53	**SM 231 - Analog input** › 4x AI › 16 Bit › Voltage, current › Resistance thermometer, thermocouple › Parameterizable
231-1BD60	**SM 231 - Analog input** › 4x AI › 12 Bit › Current 4...20 mA › Potential separated per channel
231-1BD70	**SM 231 - Analog input** › 4x AI › 12 Bit › Voltage +/- 10 V › Potential separated per channel
231-1BF00	**SM 231 - Analog input** › 8x AI › 16 Bit (2-Leiter) › 4x 16 Bit (4-Leiter) › Voltage 0...60 mV › Resistance thermometer, thermocouple › Parameterizable
231-1FD00	**SM 231 - Analog input FAST** › 4x fast AI › 16 Bit › Voltage +/- 10 V, +/- 4 V, +/- 400 mV › Current +/- 20 mA, 4…20 mA › Parameterizable › 0,8 ms cycle time
Analog output modules	
232-1BD30	**SM 232 - Analog output ECO** › 4x AO › 12 Bit › Voltage 0...10 V, +/- 10 V › Parameterizable
232-1BD40	**SM 232 - Analog output ECO** › 4x AO › 12 Bit › Current 0(4)...20 mA › Parameterizable
232-1BD51	**SM 232 - Analog output** › 4x AO › 12 Bit › Voltage +/- 10 V, 1…5 V, 0…10 V › Current +/- 20 mA, 0/4…20 mA › Parameterizable

200V

Order no.	Name/Description
Analog in/output modules	
234-1BD50	**SM 234 - Analog in-/output** › 2x AI › 2x AO › 12 Bit › Voltage +/- 10 V, 1…5 V, 0…10 V › Current +/- 20 mA, 0/4…20 mA › Parameterizable
234-1BD60	**SM 234 - Analog in-/output** › 4x AI › 2x AO › 12 Bit › Voltage +/- 10 V, 1…5 V, 0…10 V › Current +/- 20 mA, 0/4…20 mA › Resistance thermometer › Parameterizable
Combination modules	
238-2BC00	**SM 238C - Digital in-/output, counter, analog in-/output** › 16 (12)x DI, DC 24 V › 0 (4)x DO, DC 24 V, 1 A › Up to 3x Counter up to 30 kHz › 4x AI 12 Bit › 3x voltage, current › 1x RTD › 2x AO 12 Bit voltage, current
RS232/422/485 and other CPs	
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
240-1FA20	**CP 240 - Communication processor** › M-Bus master › Isolated › Up to 6 slaves
Fieldbus master modules	
208-1CA00	**IM 208CAN - CANopen master** › CANopen master › 1 Mbit/s › Up to 125 CAN slaves › Project engineering under VIPA WinCoCT › 40 Transmit PDOs, 40 Receive PDOs
208-1DP01	**IM 208DP - PROFIBUS-DP master** › RS485 › 12 Mbit/s › Up to 125 DP slaves
Counter modules	
250-1BA00	**FM 250 - Counter module** › 2/4 channels with 32/16 Bit › Supply DC 24 V and above backplane bus › 24 V outputs (1 A) free configurable › Up to 1 MHz
SSI modules	
250-1BS00	**FM 250S - SSI module** › 1 SSI channel › RS422 › 12/24 Bit › Direct power supply to the SSI transducer › Baud rate: 100/300/600 Kbit/s (default: 300 Kbit/s) › 2x parameterizable DO, DC 24 V, 1 A › One may be used as hold input

200V

Order no.	Name/Description
Positioning modules	
253-1BA00	**FM 253 - Positioning module** › For 1-axis drive with stepper › 3x DI, DC 24 V › Inputs for connecting end switches › 2x DO, 24 V › Isolated
254-1BA00	**FM 254 - Positioning module** › For 1-axis drive with servo › RS422 › Isolated › 3x DI, DC 24 V › For connecting end switches › 2x DO, DC 24 V › 1 A
Fieldbus slave modules without I/Os	
253-1CA01	**IM 253CAN - CANopen slave** › DC 24 V › 1 Mbit/s › Up to 32 modules › 10 Rx and 10 Tx PDO › 2x SDOs › PDO linking, PDO mapping
253-1DP01	**IM 253DP - PROFIBUS-DP slave** › DC 24 V › 12 Mbit/s › Configuration via GSD-file of VIPA › Up to 32 modules (16 analog) › 244 Byte input and 244 Byte output data
253-1DP31	**IM 253DP - PROFIBUS-DP slave ECO** › DC 24 V › 12 Mbit/s › Configuration via GSD file of VIPA › Up to 8 peripheral modules › 244 Byte input- and 244 Byte output data
253-1NE00	**IM 253NET - Ethernet slave** › DC 24 V › 10/100 Mbit/s › Ethernet coupler with Modbus/TCP and Siemens S5 Header Protocol › For up to 32 peripheral modules › Max. 256 Byte I/O data › RJ45 › 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 › Cage clamps
292-1AH00	**Front connector** › 18 pin › Cage clamps

200V

Order no.	Name/Description
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 m
260-1XY20	**Connection cable** › Connection cable for interface modules › Length: 2 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** › Antenna for EnOcean CP › Including SMA connector
240-0EA10	**CP 240 - Magnetic base antenna** › Antenna for EnOcean CP › Including 150 cm cable and SMA connector
MMC memory	
953-0KX10	**MMC - MultiMediaCard** › MMC for VIPA CPUs 11x, 21x, 24x, 31x and 51x › MMC for 208-1DP01 and CC 03
Labelling	
292-1XY20	**Clip-on cards** › Perforated › 10 sheets each 108 cards

300S+

300S

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 WinPLC7, 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 WinPLC7, 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 WinPLC7, 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 WinPLC7, 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 WinPLC7, 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 WinPLC7, 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 WinPLC7, SIMATIC Manager and TIA Portal

300S

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 › Interface [RJ45]: Ethernet PG/OP communication › Interface [RS485]: MPI › Interface [RS485]: PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave › SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal
317-4PN23	**VIPA CPU 317PN** › Powered by SPEED7 › Work memory [KB]: 8MB › 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 WinPLC7, SIMATIC Manager and TIA Portal
CPUs STEP7 programmable, class C	
312-5BE23	**VIPA CPU 312SC** › Powered by SPEED7 › Work memory [KB]: 128...1.024 › Onboard 16x DI / 8x DO / 2x Counter / 2x PWM › Interface [RJ45]: Ethernet PG/OP communication › Interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave › Including front connector › SD/MMC card slot with locking, up to 8 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal
313-5BF23	**VIPA CPU 313SC** › Powered by SPEED7 › Work memory [KB]: 256...1.024 › Onboard 24x DI / 16x DO / 5x AI [current/voltage] / 2x AO / 1x Pt100 / 3x Counter / 3x PWM › Interface [RJ45]: Ethernet PG/OP communication › Interface [2x RS485]: MPI, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave › Including front connector › SD/MMC card slot with locking, up to 8 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal
313-6CF23	**VIPA CPU 313SC DPM** › Powered by SPEED7 › Work memory [KB]: 256...1.024 › Onboard 16x DI / 16x DO / 3x Counter / 3x PWM › Interface [RJ45]: Ethernet PG/OP communication › Interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave › Including front connector › SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal
314-6CF23	**VIPA CPU 314ST** › Powered by SPEED7 › Work memory [KB]: 512...2.048 › Onboard 8x DI / 8x DIO / 5x AI [current/voltage] / 2x AO / 1x Pt100 / 4x Counter › 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 › Including front connector › SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal
314-6CG23	**VIPA CPU 314SC DPM** › Powered by SPEED7 › Work memory [KB]: 512...2.048 › Onboard 24x DI / 16x DO / 8x DIO / 5x AI [current/voltage] / 2x AO / 1x Pt100 / 4x Counter / 4x PWM › Interface [RJ45]: Ethernet PG/OP communication › Interface [2x RS485]: MPI, PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave › Including front connector › SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal

300S

Order no.	Name/Description
Power supply	
307-1BA00	**PS 307 - Power supply** › AC 100...240 V › DC 24 V › 2,5 A › Without manual switch
307-1EA00	**PS 307 - Power supply** › AC 120...230 V › DC 24 V › 5 A › 60/50 Hz switchable
307-1FB70	**PS 307S - Power supply - SPEED-Bus** › DC 24 V › 5,5 A › Only for 317S PLCs
307-1KA00	**PS 307 - Power supply** › AC 120...230 V › DC 24 V › 10 A › 60/50 Hz switchable
Digital input modules	
321-1BH01	**SM 321 - Digital input** › 16x DI › DC 24 V › For 20 pole front connector
321-1BH70	**SM 321S - FAST Digital input - SPEED-Bus** › 16x fast DI › SPEED-Bus › 2,56µs…40ms › Parameterizable as Alarm/ETS › For 20 pole front connector
321-1BL00	**SM 321 - Digital input** › 32x DI, two groups › DC 24 V › For 40 pole front connector
321-1FH00	**SM 321 - Digital input** › 16x DI, in groups of 4 › AC 120/230 V › For 20 pole front connector
Digital output modules	
322-1BF01	**SM 322 - Digital output** › 8x DO, in groups of 4 › DC 24 V › 2 A › For 20 pole front connector
322-1BH01	**SM 322 - Digital output** › 16x DO, in groups of 8 › 1 A (per group up to 4 A) › For 20 pole front connector
322-1BH01-S	**SM 322 - Digital output** › 16x DO, in groups of 8 › 1 A (per group up to 4 A) › Safe shutdown according to EN ISO 13849-1 to category 3 PLd › For 20 pole front connector
322-1BH41	**SM 322 - Digital output** › 16x DO, in groups of 8 › DC 24 V › 2 A › For 20 pole front connector
322-1BH60	**SM 322 - Digital output** › 16x DO › (1x DI activation for outputs) › DC 24 V › 0.5 A › 16 switch, automatic/manual 0/1 › For 20 pole front connector

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Order no.	Name/Description
322-1BH70	**SM 322S - FAST Digital output - SPEED-Bus** › 16x fast DO › SPEED-Bus › DC 24 V › 0.5 A › 100 kHz › For 20 pole front connector
322-1BL00	**SM 322 - Digital output** › 32x DO, in groups of 8 › DC 24 V › 1 A › For 40 pole front connector
322-1BL00-S	**SM 322 - Digital output** › 32x DO, in groups of 8 › DC 24 V › 1 A › Safe shutdown according to EN ISO 13849-1 to category 3 PLd › For 40 pole front connector
322-1HH00	**SM 322 - Digital output** › 16x DO, in groups of 8 › Relay › DC 24 V › AC 230 V › Contact rating per channel 5 A › For 20 pole front connector
322-5FF00	**SM 322 - Digital output** › 8x DO in groups of 1 › AC 120/230 V › 2 A › Potential separated per channel › Substitute value output (programmable) › For 40 pole front connector
Digital in/output modules	
323-1BH00	**SM 323 - Digital in-/output** › 16x DIO › DC 24 V › 1 A › Diagnostic function › For 20 pole front connector
323-1BH01	**SM 323 - Digital in-/output** › 8x DI › 8x DO › DC 24 V › 1 A › For 20 pole front connector
323-1BH70	**SM 323S - FAST Digital in-/output - SPEED-Bus** › 16x DIO › SPEED-Bus › DC 24 V › 0.5 A › 100 kHz › For 20 pole front connector
323-1BL00	**SM 323 - Digital in-/output** › 16x DI › 16x DO › DC 24 V › 1 A › For 40 pole front connector
323-1BL00-S	**SM 323 - Digital in-/output** › 16x DI › 16x DO › DC 24 V › 1 A › Safe shutdown according to EN ISO 13849-1 to category 3 PLd › For 40 pole front connector

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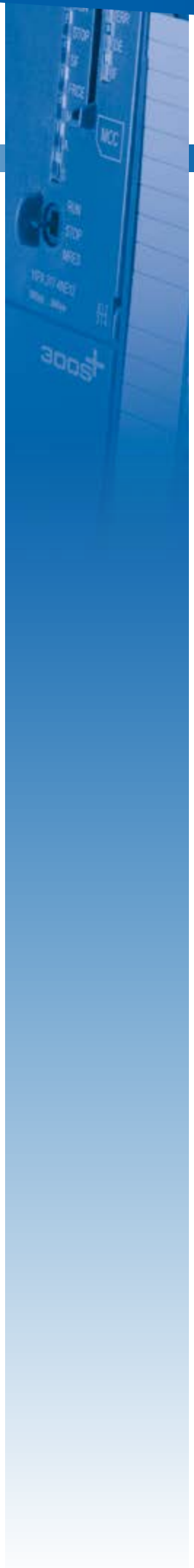
Order no.	Name/Description
Analog input modules	
331-1KF01	**SM 331 - Analog input** › 8x AI › 13 Bit › Voltage +/- 10 V, +/- 50 mV, +/- 500 mV, +/- 5 V, 0 V ... +10 V › Current +/- 20 mA, 0/4…20 mA › Resistance thermometer, thermocouple › For 40 pole front connector
331-7KF01	**SM 331 - Analog input** › 8x AI, in 4 groups › 12 Bit › Voltage +/- 10 V, +/- 5 V, 1…5 V, +/- 80 mV, +/- 250 mV, +/- 500 mV › Current +/- 20 mA, +/- 10 mA, 0/4…20 mA, +/- 3.2 mA › Resistance thermometer, thermocouple › For 20 pole front connector
331-7KB01	**SM 331 - Analog input** › 2x AI, in 1 group › 12 Bit › Voltage +/- 10 V, 1…5 V, 0…10 V › Current +/- 20 mA, 0/4…20 mA › Resistance thermometer, thermocouple › For 20 pole front connectors
331-7AF70	**SM 331S - Analog input FAST - SPEED-Bus** › 8x fast AI › 16 Bit › Current +/- 20 mA › Potential isolation between the channels › 25µs...1000µs sampling rate (parameterizable) › Memory: 8192 value/channel › Oscilloscope-/FIFO-Function › Alarm parameterizable › For 20 pole front connectors
331-7BF70	**SM 331S - Analog input FAST - SPEED-Bus** › 8x fast AI › 16 Bit › Voltage +/- 10 V › Potential isolation between the channels › 25µs...1000µs sampiling rate (parameterizable) › Memory: 8192 value/channel › Oscilloscope-/FIFO-Function › Alarm parameterizable › For 20 pole front connectors
Analog output modules	
332-5HB01	**SM 332 - Analog output** › 2x AO › 12 Bit › Voltage +/- 10 V, 1…5 V, 0…10 V › Current +/- 20 mA, 0/4…20 mA › Parameterizable › For 20 pole front connectors
332-5HD01	**SM 332 - Analog output** › 4x AO › 12 Bit › Voltage +/- 10 V, 1…5 V, 0…10 V › Current +/- 20 mA, 0/4…20 mA › Parameterizable › For 20 pole front connectors
Analog in/output modules	
334-0KE00	**SM 334 - Analog in-/output** › 4x AI › 2x AO › 12 Bit › Input: RTD / output voltage 0...10 V › Parameterizable › For 20 pole front connector
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

300S

Order no.	Name/Description
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 diagnostic buffer
Fieldbus master modules	
342-1CA70	**CP 342S CAN - CANopen master - SPEED-Bus** › CANopen master › SPEED-Bus › 1 Mbit/s › 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 › SPEED-Bus › 12 Mbit/s › 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 › Diagnostic via LEDs › Diagnostic 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** › 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** › DC 24 V › 12 Mbit/s › Up to 29 peripheral modules (16 analog) › 244 Byte input- und 244 Byte outputdata › Integrated DC 24 V power supply › Configuration via GSD-file of VIPA
Memory extensions	
953-0KX10	**MMC - MultiMediaCard** › MMC for VIPA CPUs 11x, 21x, 24x, 31x and 51x › MMC for 208-1DP01 and CC 03
953-1LE00	**Memory Configuration Card (MCC) 32 KB** › For SPEED7-CPUs › 32 KB › 16 KB program/16 KB data
953-1LF00	**Memory Configuration Card (MCC) 64 KB** › For SPEED7-CPUs › 64 KB › 32 KB program/32 KB data

300S



Order no.	Name/Description
953-1LG00	**Memory Configuration Card (MCC) 128 KB** › For SPEED7-CPUs › 128 KB › 64 KB program/64 KB data
953-1LH00	**Memory Configuration Card (MCC) 256 KB** › For SPEED7-CPUs › 256 KB › 128 KB program/128 KB data
953-1LJ00	**Memory Configuration Card (MCC) 512 KB** › For SPEED7-CPUs › 512 KB › 256 KB program/256 KB data
953-1LK00	**Memory Configuration Card (MCC) 1 MB** › For SPEED7-CPUs › 1 MB › 512 KB program/512 KB data
953-1LL00	**Memory Configuration Card (MCC) 2 MB** › For SPEED7-CPUs › 2 MB › 1 MB program/1 MB data
953-1LM00	**Memory Configuration Card (MCC) 4 MB** › For SPEED7-CPUs › 4 MB › 2 MB program/2 MB data
953-1LP00	**Memory Configuration Card (MCC) 8 MB** › For SPEED7-CPUs › 8 MB › 4 MB program/4 MB data
Memory modules for other components	
955-0000000	**VIPA SD-Card (VSD)** › Industrial SD card › 512 Mbyte (Industrial SLC) › Extremely robust against EMC, shock and vibration › Temperature range -40 up to 85°C › Water-/dust proof in accordance with IP57/IP67 › MTBF (25°C) >5.000.000h › unrecorded
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** › Length: 530 mm › With integrated High-SPEED rear panel bus › For 2 expansion slots
391-1AF30	**BP 391 - SPEED-Bus** › Length: 530 mm › With integrated High-SPEED rear panel bus › For 6 expansion slots
391-1AF50	**BP 391 - SPEED-Bus** › Length: 530 mm › With integrated High-SPEED rear panel bus › For 10 expansion slots
391-1AJ10	**BP 391 - SPEED-Bus** › Length: 830 mm › With integrated High-SPEED rear panel bus › For 2 expansion slots › Left justified
391-1AJ30	**BP 391 - SPEED-Bus** › Length: 830 mm › With integrated High-SPEED rear panel bus › For 6 expansion slots › Left justified
391-1AJ50	**BP 391 - SPEED-Bus** › Length: 830 mm › With integrated High-SPEED rear panel bus › For 10 expansion slots › Left justified

300S

Order no.	Name/Description
390-1AB60	**Profile rail** › Length: 160 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** › 20 pole › Screw contact
392-1BJ00	**Front connector** › 20 pole › Cage clamps
392-1AM00	**Front connector** › 40 pole › Screw contact
392-1BM01	**Front connector** › 40 pole › Cage clamps
922-3BC50	**Preassembled front connectors** › For 300 series › 20 pin with 20 single cores 0,5 mm² › All the wires are marked at regular intervals with wire numbers › Wire type H05V-K › Permissible constant current by pressure of all wires, max. 1,5 A › Nominal operating voltage DC 24 V › Cable length: 2,5 m
922-3BD20	**Preassembled front connectors** › For 300 series › 20 pin with 20 single cores 0,5 mm² › All the wires are marked at regular intervals with wire numbers › Wire type H05V-K › Permissible constant current by pressure of all wires, max. 1,5 A › Nominal operating voltage DC 24 V › Cable length: 3,2 m
922-3BF00	**Preassembled front connectors** › For 300 series › 20 pin with 20 single cores 0,5 mm² › All the wires are marked at regular intervals with wire numbers › Wire type H05V-K › Permissible constant current by pressure of all wires, max. 1,5 A › Nominal operating voltage DC 24 V › Cable length: 5 m
922-6BC50	**Preassembled front connectors** › For 300 series › 40 pin with 40 single cores 0,5 mm² › All the wires are marked at regular intervals with wire numbers › Wire type H05V-K › Permissible constant current by pressure of all wires, max. 1,5 A › Nominal operating voltage DC 24 V › Cable length: 2,5 m
922-6BD20	**Preassembled front connectors** › For 300 series › 40 pin with 40 single cores 0,5 mm² › All the wires are marked at regular intervals with wire numbers › Wire type H05V-K › Permissible constant current by pressure of all wires, max. 1,5 A › Nominal operating voltage DC 24 V › Cable length: 3,2 m
922-6BF00	**Preassembled front connectors** › For 300 series › 40 pin with 40 single cores 0,5 mm² › All the wires are marked at regular intervals with wire numbers › Wire type H05V-K › Permissible constant current by pressure of all wires, max. 1,5 A › Nominal operating voltage DC 24 V² › Cable length: 5 m

HMI

HMI

Order no.	Name/Description
professional Panels	
62G-FID0-CB	**VIPA Touch Panel TP 606C** › Display: 6,5" › Processor: XScale-CPU | 1066 MHz › RAM [MB]: 256 › User memory [MB]: 512 › External slot: SD Card | CF Card › Onboard Interface: 1x RS232 | 1x 422/485 | 1x USB-A | 1x USB-B | 1x RJ45 (Ethernet) | 1x MPI/ PROFIBUS-DP › Software: CE6.0 Professional | Movicon CE Standard
62I-JID0-CB	**VIPA Touch Panel TP 608C** › Display: 8,4" › Processor: XScale-CPU | 1066 MHz › RAM [MB]: 256 › User memory [MB]: 512 › External slot: SD Card | CF Card › Onboard Interface: 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
62I-JID0-CX	**VIPA Touch Panel TP 608C** › Display: 8,4" › Processor: XScale-CPU | 1066 MHz › RAM [MB]: 256 › User memory [MB]: 512 › External slot: SD Card | CF Card › Onboard Interface: 1x RS232 | 1x 422/485 | 2x USB-A | 1x USB-B | 2x RJ45 (Ethernet) | 1x MPI/ PROFIBUS-DP › Software: CE6.0 Professional
62I-JIDR-CX	**VIPA Touch Panel TP608C RFID** › Display: 8,4" › Processor: XScale-CPU | 1066 MHz › RAM [MB]: 256 › User memory [MB]: 512 › External slot: SD Card | CF Card › Onboard Interface: 1x RS232 | 1x 422/485 | 2x USB-A | 1x USB-B | 2x RJ45 (Ethernet) | 1x MPI/ PROFIBUS-DP › Software: CE6.0 Professional
62K-JID0-CB	**VIPA Touch Panel TP 610C** › Display: 10,4" › Processor: XScale-CPU | 1066 MHz › RAM [MB]: 256 › User memory [MB]: 512 › External slot: SD Card | CF Card › Onboard Interface: 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
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 | CF Card › Onboard Interface: 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 | CF Card › Onboard Interface: 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 | CF Card › Onboard Interface: 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

HMI

Order no.	Name/Description
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 | CF Card › Onboard Interface: 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 | CF Card › Onboard Interface: 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-RSL0-JB	**Panel PC PPC010 ES** › Display: 10.1” › Processor: Intel Celeron J1900 quad core @2 GHz › Work memory: 4 GB › Operating system and user memory: 16 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Standard 7 › Visualization system Movicon 11.5 Runtime and editor
67K-RSL0-JX	**Panel PC PPC010 ES** › Display: 10.1” › Processor: Intel Celeron J1900 quad core @2 GHz › Work memory: 4 GB › Operating system and user memory: 16 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Standard 7
67K-RRJ0-EB	**Panel PC PPC010 CE** › Display: 10.1” › Processor: Intel Celeron J1900 quad core @2 GHz › Work memory: 2 GB › Operating system and user memory: 2 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Compact 7 and Runtime Movicon CE Standard › Visualization system Movicon 11.5 Runtime
67P-RSL0-JB	**Panel PC PPC015 ES** › Display: 15.6” › Processor: Intel Celeron J1900 quad core @2 GHz › Work memory: 4 GB › Operating system and user memory: 16 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Standard 7 › Visualization system Movicon 11.5 Runtime and editor
67P-RSL0-JX	**Panel PC PPC015 ES** › Display: 15.6” › Processor: Intel Celeron J1900 quad core @2 GHz › Work memory: 4 GB › Operating system and user memory: 16 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Standard 7
67P-RRJ0-EB	**Panel PC PPC015 CE** › Display: 15.6” › Processor: Intel Celeron J1900 quad core @2 GHz › Work memory: 2 GB › Operating system and user memory: 2 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Compact 7 and Runtime Movicon CE Standard › Visualization system Movicon 11.5 Runtime

HMI

Order no.	Name/Description
67S-RSL0-JB	**Panel PC PPC021 ES** › Display: 21.5” › Processor: Intel Celeron J1900 quadcore @2 GHz › Work memory: 4 GB › Operating system and user memory: 16 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Standard 7 › Visualization system Movicon 11.5 Runtime and editor
67S-RSL0-JX	**Panel PC PPC021 ES** › Display: 21.5” › Processor: Intel Celeron J1900 quadcore @2 GHz › Work memory: 4 GB › Operating system and user memory: 16 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Standard 7
67S-RRJ0-EB	**Panel PC PPC021 CE** › Display: 21.5” › Processor: Intel Celeron J1900 quad core @2 GHz › Work memory: 2 GB › Operating system and user memory: 2 GB › Memory card plug-in place: CFast › Interfaces: 2x Ethernet (10/100/1000), 2x USB 2.0, 1x USB 3.0, 2x serial (RS232,RS422/RS485), Audio out › Incl. operating system Windows Embedded Standard 7 and Runtime Movicon CE Standard › Visualization system Movicon 11.5 Runtime
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 › Onboard Interface: 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 › Onboard Interface: 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 › Onboard Interface: 2x 232/422/485 | 4x USB-A | 1x VGA | 2x RJ45 (Ethernet) | 1x Audio out › Software: WES7
smartPanel	
H41-71A41-0	**smartPanel TP304-SM** › Display: 4.3" › Processor: Cortex-A8 | 1GHz › Work memory [MB]: 512 › User memory [GB]: 4 › Interface onboard: 1x RS232/422/485 | 1x USB-A | 1x RJ45 (Ethernet) › Software: Windows Embedded Compact 7 › Movicon CE Standard
H71-71A41-0	**smartPanel TP307-SM** › Display: 7" › Processor: Cortex-A8 | 1GHz › Work memory [MB]: 512 › User memory [GB]: 4 › Interface onboard: 1x RS232/422/485 | 1x USB-A | 1x RJ45 (Ethernet) › Software: Windows Embedded Compact 7 › Movicon CE Standard
HA1-71A41-0	**smartPanel TP310-SM** › Display: 10.1" › Processor: Cortex-A8 | 1GHz › Work memory [MB]: 512 › User memory [GB]: 4 › Interface onboard: 1x RS232/422/485 | 1x USB-A | 1x RJ45 (Ethernet) › Software: Windows Embedded Compact 7 › Movicon CE Standard

HMI

Order no.	Name/Description
cloudPanel	
H41-L1A41-0	**cloudPanel TP104-CL** › Display: 4.3" › Processor: Cortex-A8 | 1GHz › Work memory [MB]: 512 › User memory [GB]: 4 › Interface onboard: 1x RS232/422/485 | 1x USB-A | 1x RJ45 (Ethernet) › Software: Linux 3.12
H71-L1A41-0	**cloudPanel TP107-CL** › Display: 7" › Processor: Cortex-A8 | 1GHz › Work memory [MB]: 512 › User memory [GB]: 4 › Interface onboard: 1x RS232/422/485 | 1x USB-A | 1x RJ45 (Ethernet) › Software: Linux 3.12
HA1-L1A41-0	**cloudPanel TP110-CL** › Display: 10.1" › Processor: Cortex-A8 | 1GHz › Work memory [MB]: 512 › User memory [GB]: 4 › Interface onboard: 1x RS232/422/485 | 1x USB-A | 1x RJ45 (Ethernet) › Software: Linux 3.12
Text displays and operator panels	
603-1TD00	**VIPA Text Display TD 03** › Display: 2 x 20 characters › Interface: MP²I › Languages: DE, EN › Visualization of the connected CPU via MPI › Project engineering via TD-Wizard of VIPA
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
Commander compact	
603-1CC23	**VIPA Commander Compact CC 03** › Display: 2 x 20 characters › Interface: MP²I › 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: 32/40 KB work/load memory › 16x DI, 16x DO › Up to 4 I/O expansion modules
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)

HMI

Order no.	Name/Description
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)
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)
Memory modules for Touch Panels	
574-2AH00	**Compact Flash Card (CF) 1 GB** › For VIPA professional Panels
574-2AI00	**Compact Flash Card (CF) 2 GB** › For VIPA professional Panels
574-2BK00	**Compact Flash Card (CF) 8 GB** › For VIPA Panel PC
574-2BL00	**Compact Flash Card (CF) 16 GB** › For VIPA Panel PC
953-1SI00	**Secure Disc (SD) 2 GB** › For VIPA 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

HMI

Order no.	Name/Description
Cables	
670-0KB20	**Ethernet programming cable** › For Touch Panels with Movicon › Length: 3 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** › PU/Diagnostic port › Length: 2,5 m › For VIPA CC03, OP 03, TD 03
660-0KB00	**Periphery expansion cable CC 03** › For up to 4 expansion modules EM 123 or System 200V modules › Length: 0,5 m
950-0KB50	**PC/AG programming cable** › MPI cable with PU-/Diagnostic port › Length: 2,5 m
Housings, connectors etc.	
HYA-7E7S	**7" ECO / 7" Smart mounting adapter** › Mounting adapter

Teleservice

Teleservice

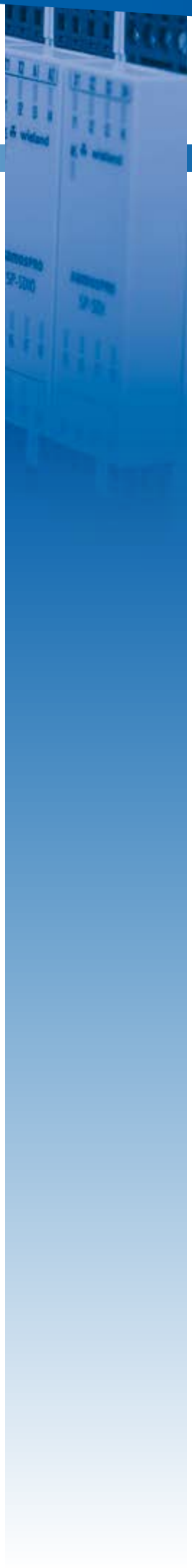
Order no.	Name/Description
Teleservice modules	
900-2C510	**VIPA TM-C VPN Router WAN/LAN** › For remote access via Talk2M VPN › 4x RJ45 LAN 100 mbit/s (integrated switch, configurable LAN/WAN) › 2x digital input for internet / VPN-access › 1x digital output for Talk2M connection › Integrated web interface for configuration › SD card slot › USB interface for connection serial devices
900-2C520	**VIPA TM-C VPN Router WIFI/WAN/LAN** › For remote access via Talk2M VPN › WIFI CLIENT for connection at a WIFI network (WAN) › 4x RJ45 LAN 100 Mbit/s (integrated switch, configurable LAN/WAN) › 2x digital input for internet / VPN-access › 1x digital output for Talk2M connection › Integrated web interface for configuration › SD card slot › USB interface for connection serial devices › Including WIFI antenna
900-2C580	**VIPA TM-C VPN Router 3G+/WAN/LAN** › For remote access via Talk2M VPN, 3G+ modem for connection at a mobile network (WAN) › 4x RJ45 LAN 100 mbit/s (integrated switch, configurable LAN/WAN) › 2x digital input for internet / VPN-access › 1x digital output for Talk 2M connection › Integrated web interface for configuration › SD card slot › USB interface for connection serial devices › Please order the antenna separately (900-0AB51)
900-2C610	**VIPA TM-C VPN Router WAN/LAN/MPI** › For remote access via Talk2M VPN › 4x RJ45 LAN 100 Mbit/s › 4x RJ45 switch LAN › 1x RJ45 WAN › 1x SUB-D 9pin MPI/PROFIBUS up to 12 Mbit/s › 1x digital input and output
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


MACHINE LAN


wieland
samosPRO
SP-CDP1
SD-Card
SP-PROFIBUS-DP
samosPRO
SP-SDIO

Safety

Safety



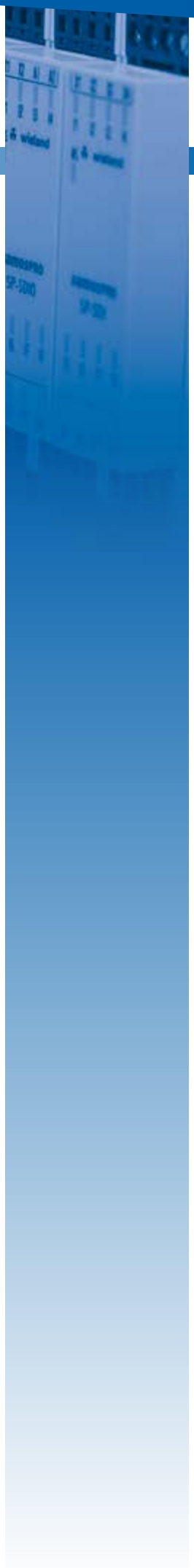
Order no.	Name/Description
Safety electronics modules	
R119000300	**samosPRO SP-SDIO84-P1-K-A** › samosPRO › IO-module with 8 input/4 solid state output › Screw terminals pluggable
R119000400	**samosPRO SP-SDIO84-P1-K-C** › samosPRO › IO-module with 8 input/4 solid state output › Spring clamp terminal pluggable
R119000500	**samosPRO SP-SDI8-P1-K-A** › samosPRO › IN-module with 8 input › Screw terminals 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 bus coupling 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 signalling current paths › AC/DC 24 V › Screw terminals pluggable
R118819800	**safeRELAY SNE 4004K-C** › Output expansion unit › 4 enabling current paths › 3 signalling 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

Safety

Order no.	Name/Description
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
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, 2 m, 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

Safety

Order no.	Name/Description
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 starter set › SP-COP2-EN-A › SP-COP CARD1 › SP-PLAN 6 programming tool › SP-CABLE-USB1 › SP-CABLE-ETH1



Software

Software

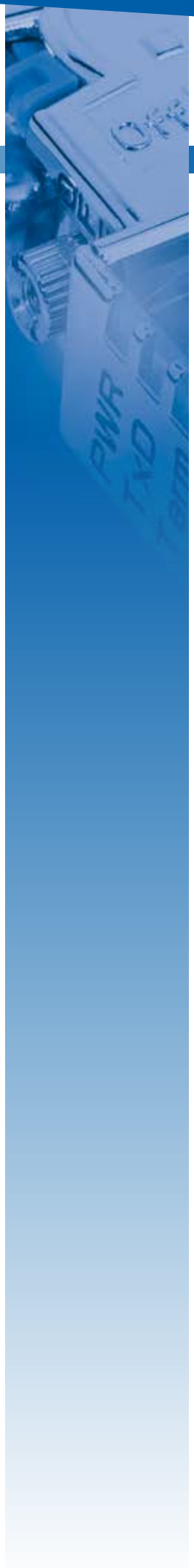
Order no.	Name/Description
Communication software	
SW110M1MA	**VIPA OPC Server | MPI | License** › Sealed Envelope with single user license for VIPA OPC Server | Software Download › Serial MPI communication (PC: COM Port <-> PLC: MPI Port) › Windows XP (SP3), Windows Vista, Windows 7 (32 Bit/64 Bit) › 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 (32 Bit/64 Bit) › 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 (32 Bit/64 Bit) › Windows Server 2003 (SP2), Windows Server 2008, Windows Server 2008 R2
SW11131MA	**VIPA SPEED7 Com Driver | 32 Bit | Developer License** › Sealed Envelope with single user licence 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 (32 Bit/64 Bit), Windows 8 (32bit/64bit)
SW11161MA	**VIPA SPEED7 Com Driver | 64 Bit | Developer License** › Sealed envelope with single user licence for SPEED7 Com Drivers | Software Download › S7-communication driver expansion* for 64 Bit applications (Windows 64Bit-DLL) for high-level language C++ › For VIPA SPEED7 PLC and SIEMENS S7 PLCs › Windows 7 (64 Bit), Windows 8 (64 Bit) › * SPEED7 Com Driver 32 Bit is required (SW11131MA or SW11135MA)!
SW111C1MA	**VIPA SPEED7 Com Driver | CE | Developer License** › Sealed envelope with single user licence for SPEED7 Com Drivers | Software Licence › S7-communication driver for Windows Embedded CE 6.0 (ARM) und C++ › For VIPA SPEED7 PLCs and SIEMENS S7 PLCs
Programming software	
SW010L1MA	**SPEED7 Studio LITE | Single | License** › Sealed envelope with single user license for SPEED7 Studio LITE (activatable for 3 times) | Software Download › Configuration of VIPA MICRO and SLIO CPUs › Project engineering of PROFIBUS / PROFINET / EtherCAT devices › Visualization with the integrated SVG editor (Web visualization)
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 und SLIO CPUs, VIPA Touch Panels and Panel-PCs › Project engineering and diagnosis of the 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 and SLIO CPUs, VIPA Touch Panels and Panel-PCs › Project engineering and diagnosis of the 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 and SLIO CPUs CPUs, VIPA Touch Panels and Panel-PCs › Project engineering and diagnosis of the 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 and SLIO CPUs, VIPA Touch Panels and Panel-PCs › Project engineering and diagnosis of the 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

Software

Order no.	Name/Description
SW310B1MA	**SPEED7 EtherCAT Manager | Licence** › SPEED7 EtherCAT Manager for configuration of VIPA EtherCAT CPUs › Project engineering and diagnosis of EtherCAT networks › Automatically read of EtherCAT network topologies
Parameterization software	
SW31OB1MA	**VIPA OP-Manager | License** › Parametrization tool for OP 03
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

Accessories

Accessories

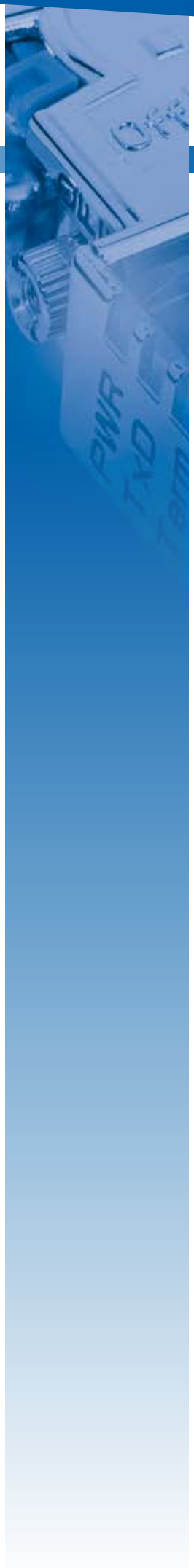


Order no.	Name/Description
S5 components	
306-1LE00	**IM 306 DP slave - 115U ZG/EG IM** › Converting Siemens S5 PLCs to S7 › Exclusively suited for AG-115U central controller and expansion units › Integrated DC 24 V power supply › Adapter casing for S5-115U/F required, please order separately: 6ES5491-0LB11
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 24 V 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 segment and 31 devices per channel › Screw terminal and DB9 plug connector › Integrated terminators (disconnectable) › Redundant power supply
920-1CA50	**VIPA MultiRepeater A5** › 5 segments and 31 devices 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 segments 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 › Optional bus redundancy › Robust mode
920-1CB50	**VIPA PROFIBUS-MultiRepeater B5-R** › 5 segments 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 and redundant power supply › Optional bus redundancy
920-1DB50	**VIPA PROFIBUS-MultiRepeater B5-RD** › 5 segments 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 › Optional bus redundancy › DP slave with bus diagnostic
921-1EB50	**VIPA PROFIBUS-MultiSwitch B5-R** › 5 segments and 31 devices per channel › Adjustable baud rate per channel (changes at the speed in the ongoing operation) › 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

Accessories

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 DC 12- 45 V › 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 DC 12/24/48 V, AC 18 up to 30 V › 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 DC 24 V › 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 DC 24 V › IP30 aluminium case for DIN rail mounting (wall mounting kit optional)
FIELDBUS accessories	
972-0DP01	**EasyConn 90° - PROFIBUS plug** › Clock rate up to 12 Mbit/s › Metal case › PG jack › Switchable terminating resistor › 90° outgoing cable › Packaging unit: 1 piece
972-0DP10	**EasyConn 90° - PROFIBUS plug** › Clock rate up to 12 Mbit/s › Metal case › PG jack › Switchable terminating resistor › 90° outgoing cable › Bus diagnosis via LEDs › Packaging unit: 1 piece
972-0DP20	**EasyConn 45° - PROFIBUS plug** › Clock rate up to 12 Mbit/s › Metal case › PG jack › Switchable terminating resistor › 45° outgoing cable › Bus diagnosis via LEDs › Packaging unit: 1 piece
972-0DP30	**EasyConn 0° - PROFIBUS plug** › Clock rate up to 12 Mbit/s › Metal case › Switchable terminating resistor › 0° outgoing cable › Bus diagnosis via LEDs › Packaging unit: 1 piece
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

Accessories



Order no.	Name/Description
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** › 100 m cable reel
830-0LD00	**FCC 2xAWG 22 - Standard PROFIBUS cable** › 200 m cable reel
830-0LE00	**FCC 2xAWG 22 - Standard PROFIBUS cable** › 500 m cable reel
830-0LF00	**FCC 2xAWG 22 - Standard PROFIBUS cable** › 1000 m cable reel
830-0PC00	**PROFINET cable** › 100 m cable reel
830-0PD00	**PROFINET cable** › 200 m cable reel
830-0PE00	**PROFINET cable** › 500 m cable reel
830-0PF00	**PROFINET cable** › 1000 m cable reel
950-0KB00	**VIPA "Green Cable"** › only for CPU 11x, 21x, 31x, 51x
950-0KB01	**PC/AG programming cable** › RS232-MPI/PROFIBUS adapter › Length: 3 m
950-0KB10	**PC/AG programming cable** › RS232-MPI/PPI adapter › LCD › Length: 3 m
950-0KB30	**PC/AG programming cable** › USB-MPI/PPI adapter › LCD › Length: 3 m
950-0KB31	**PC/AG programming cable** › USB-MPI/PROFIBUS adapter › Length: 3 m
950-0KB40	**PC/AG programming cable** › TCP/IP-MPI/PPI/PROFIBUS adapter › LCD › Length: 3 m
950-0KB50	**PC/AG programming cable** › MPI cable with PU-/Diagnostic port › Length: 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

Appendix

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 € 250,- net.
Orders with a value less than € 250,- will be charged with a handling fee of € 75,- 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 01.10.2018.
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

VIPA, SLIO, System 100V, System 200V, System 300V, System 300S, System 400V, System 500S and Commander Compact are registered trademarks of VIPA Gesellschaft für Visualisierung und Prozessautomatisierung mbH.

SPEED7 is a registered trademark of profichip GmbH.

SIMATIC, STEP, SINEC, S7-300 and S7-400 are registered trademarks of Siemens AG.

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Portable Document Format (PDF) and Postscript are registered trademarks of Adobe Systems, Inc.

Zenon is a registered trademark of Copa Data GmbH.

All other trademarks, logos and service or product marks specified herein are owned by their respective companies.

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 exists.

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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