

System Summary

for Specialists in Automation and Control Technology





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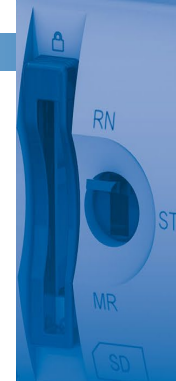




| VIPA MICRO

MICRO

Order no.	Name/Description	
CPUs STEP7 programmable, C-Klasse		
M13-CCF0000	CPU M13C <ul style="list-style-type: none"> ‣ Powered by SPEED7 ‣ Work memory [KB]: 64...128 ‣ Integrated PROFINET controller (limited to 8 Devices) / I-Device ‣ Onboard: 16x DI / 12x DO / 2x AI [voltage 0...10 V] / 4x Counter / 2x [PWM/Pulse Train] ‣ Interface [1x RJ45]: PROFINET, ModbusTCP master/slave, openCommunication ‣ Interface [1x RJ45]: active Ethernet PG/OP communication with DHCP support, switch ‣ Optional: [2x RS485]: MPI, PROFIBUS slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave ‣ OPC UA / Web server ‣ SD card slot with locking, up to 8 expansion modules, configurable via SPEED7 Studio, SIMATIC Manager and TIA Portal 	End of Sales 02/2022
M13-CCF0001	CPU M13C <ul style="list-style-type: none"> ‣ Powered by SPEED7 ‣ Work memory [KB]: 128 ‣ Integrated PROFINET controller (limited to 8 Devices) / I-Device ‣ Onboard: 16x DI / 12x DO / 2x AI [configurable: voltage 0...10 V and/or current 4...20mA] / 4x Counter / 2x [PWM/Pulse Train] ‣ Interface [1x RJ45]: PROFINET, ModbusTCP master/slave, openCommunication ‣ Interface [1x RJ45]: active Ethernet PG/OP communication with DHCP support, switch ‣ Optional: [2x RS485]: MPI, PROFIBUS slave, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave ‣ OPC UA / Web server ‣ SD card slot with locking, up to 8 expansion modules, configurable via SPEED7 Studio, SIMATIC Manager and TIA Portal 	Successor to M13-CCF0000 Available from 04/2021
FeatureSets		
955-C000S00	VIPASetCard 002 (VSC) <ul style="list-style-type: none"> ‣ PROFIBUS slave 	
955-C000020	VIPASetCard 003 (VSC) <ul style="list-style-type: none"> ‣ 64 KB 	
955-C000S20	VIPASetCard 005 (VSC) <ul style="list-style-type: none"> ‣ 64 KB ‣ PROFIBUS slave 	
Memory modules for other components		
955-0000000	VIPA SD-Card (VSD) <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 16x DI ‣ DC 24 V 	

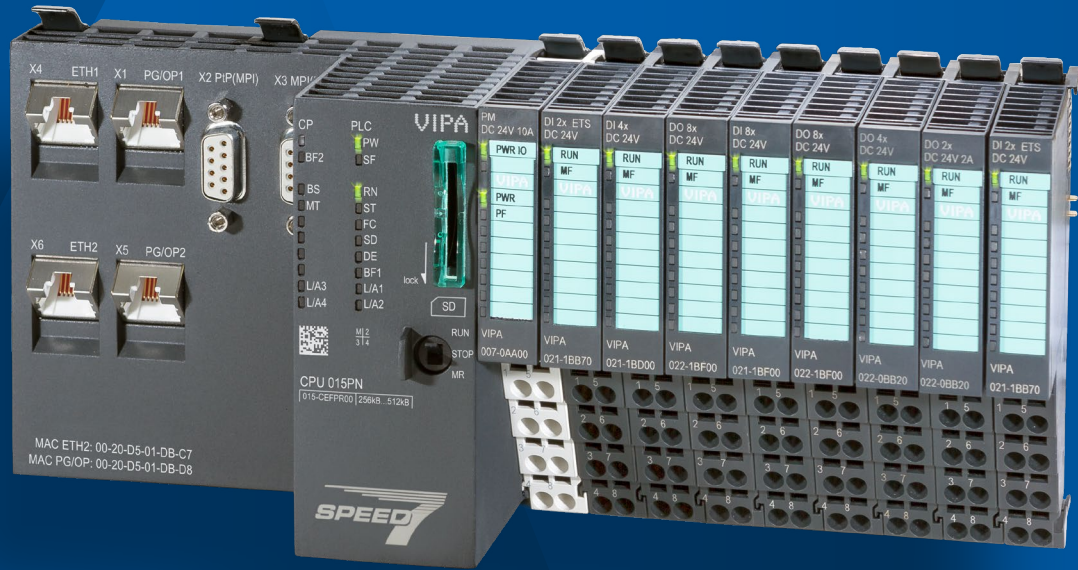


MICRO

Order no.	Name/Description	
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	
Extension		
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	
Power supply		
M07-2BA00	PS M07 - Power supply ▶ Input AC 120-240 V ▶ Output 24V DC 1.5 A 36 W ▶ Efficiency > 89 %	
Accessories		
290-1AF00	35 mm profile rail ▶ Length: 2000 mm	
290-1AF30	35 mm profile rail ▶ Length: 530 mm	







VIPA SLIO

SLIO

Order no.	Name/Description
CPUs STEP7 programmable, standard	
014-CEF0R01	<p>CPU 014</p> <ul style="list-style-type: none"> › Powered by SPEED7 › Work memory [KB]: 128...256 › Integrated PROFINET Controller (limited to 8 Devices) / I-Device › Interface [1x RJ45]: PROFINET, ModbusTCP master/slave, openCommunication › Interface [1x 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 › OPC UA available from hardware version 2
CPUs STEP7 programmable, PROFINET	
015-CEFPR01	<p>CPU 015PN</p> <ul style="list-style-type: none"> › Powered by SPEED7 › Work memory [KB]: 256...512 › Integrated PROFINET Controller / I-Device › 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 › OPC UA available from hardware version 2
017-CEFPR00	<p>CPU 017PN</p> <ul style="list-style-type: none"> › Powered by SPEED7 › Work memory [KB]: 512...2.048 › Integrated PROFINET Controller / I-Device › 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 › OPC UA available from hardware version 2
019-CEFPM00	<p>CPU 019PN</p> <ul style="list-style-type: none"> › Powered by SPEED7 › Work memory [KB]: 3.072 › Integrated PROFINET Controller / I-Device › 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 › Integrated PROFIBUS master/slave › OPC UA / 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	<p>CPU 015N</p> <ul style="list-style-type: none"> › Powered by SPEED7 › SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC manager › Work memory [KB]: 256...512 › Integrated Ethernet CP EtherCAT Controller › Interface [1x RJ45]: EtherCAT-Master › Interface [1x RJ45]: active Ethernet CP, ModbusTCP master/slave, openCommunication › Interface [2x RJ45]: active 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 › SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, EtherCAT Manager for STEP 7 V5.6 › OPC UA available from hardware version 3

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SLIO

Order no.	Name/Description	
CPUs STEP7 programmable, C-Klasse		
013-CCF0R00	CPU 013C ▶ Powered by SPEED7 ▶ Work memory [KB]: 64...128 ▶ Integrated PROFINET Controller (limited to 8 Devices) / I-Device ▶ Onboard 16x DI / 12x DO / 2x AI [voltage 0...10 V] / 4x Counter / 2x [PWM/Pulse Train] ▶ Interface [1x RJ45]: PROFINET, ModbusTCP master/slave, openCommunication ▶ Interface [1x RJ45]: active Ethernet PG/OP communication with DHCP support, switch ▶ Interface [RS485]: MPI, PtP: ASCII, STX/ETX, 3964 (R), USS master, Modbus master/slave ▶ Optional: PROFIBUS master/slave ▶ OPC UA / 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	
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	



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Order no.	Name/Description	
955-C0NEM40	VIPASetCard 042 (VSC) <ul style="list-style-type: none"> ‣ 256 KB ‣ Motion control 8-axes ‣ PROFIBUS master 	
955-C0PEM40	VIPASetCard 043 (VSC) <ul style="list-style-type: none"> ‣ 256 KB ‣ Motion control 20-axes ‣ PROFIBUS master 	
955-C0NE040	VIPASetCard 032 (VSC) <ul style="list-style-type: none"> ‣ 256 KB ‣ Motion control 8-axes 	
955-C0PE040	VIPASetCard 033 (VSC) <ul style="list-style-type: none"> ‣ 256 KB ‣ Motion control 20-axes 	
Memory modules for other components		
955-0000000	VIPA SD-Card (VSD) <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 8x DC 24 V clamps 	
001-1BA10	CM 001 - Potential distributor module <ul style="list-style-type: none"> ‣ 8x DC 0 V clamps 	
001-1BA20	CM 001 - Potential distributor module <ul style="list-style-type: none"> ‣ 4x DC 24 V clamps ‣ 4x DC 0 V clamps 	
Power modules		
007-0AA00	PM 007 - Power module <ul style="list-style-type: none"> ‣ Power supply DC 24 V ‣ (Only electronic module as a spare part for PLC and field bus module) 	
007-1AB00	PM 007 - Power module <ul style="list-style-type: none"> ‣ Output supply ‣ Power supply DC 24 V ‣ 10 A ‣ Reverse polarity protection ‣ Overvoltage protection 	
007-1AB10	PM 007 - Power module <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 2x DI ‣ DC 24 V 	
021-1BB10	SM 021 - Digital input <ul style="list-style-type: none"> ‣ 2x DI (fast) ‣ DC 24 V ‣ Input filter time delay parameterizable 2 µs...4 ms 	
021-1BD00	SM 021 - Digital input <ul style="list-style-type: none"> ‣ 4x DI ‣ DC 24 V 	
021-1BD10	SM 021 - Digital input <ul style="list-style-type: none"> ‣ 4x DI (fast) ‣ DC 24 V ‣ Input filter time delay parameterizable 2 µs...4 ms 	
021-1BD40	SM 021 - Digital input <ul style="list-style-type: none"> ‣ 4x DI ‣ DC 24 V ‣ Connect 2/3 wire 	
021-1BD50	SM 021 - Digital input <ul style="list-style-type: none"> ‣ 4x DI ‣ DC 24 V ‣ NPN 	



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Order no.	Name/Description	
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	
021-1BH00	SM 021 - Digital input ▶ 16x DI ▶ DC 24 V	Available from 04/2021
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	
021-1SD10	SM 021 - Digital input ▶ 4x SDI ▶ DC 24 V ▶ Safety / FSoE	
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	
022-1BH00	SM 022 - Digital output ▶ 16x DO ▶ DC 24 V ▶ 0.5 A	Available from 04/2021



SLIO

Order no.	Name/Description	
022-1HB10	SM 022 - Digital output <ul style="list-style-type: none"> ‣ 2x DO ‣ DC 30 V ‣ AC 230 V ‣ 3 A ‣ Potential separated per channel ‣ Relay 	
022-1HD10	SM 022 - Digital output <ul style="list-style-type: none"> ‣ 4x DO ‣ DC 30 V ‣ AC 230 V ‣ 1.8 A ‣ Potential separated per group (2 channel) ‣ Relay 	
022-1DF00	SM 022 - Digital output <ul style="list-style-type: none"> ‣ 8x DO ‣ DC 24 V ‣ 0.5 A ‣ Diagnostic of wiring errors 	
022-1SD00	SM 022 - Digital output <ul style="list-style-type: none"> ‣ 4x SDO ‣ DC 24 V ‣ 0.5 A ‣ Safety / PROFIsafe 	
022-1SD10	SM 022 - Digital output <ul style="list-style-type: none"> ‣ 4x SDO ‣ DC 24 V ‣ 0.5 A ‣ Safety / FSoE 	to be released
Analog input modules		
031-1BB10	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 2x AI ‣ 12 Bit ‣ Current 0(4)...20 mA ‣ 2 wire ‣ Potential separated per channel 	
031-1BB30	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 2x AI ‣ 12 Bit ‣ Voltage 0...10 V 	
031-1BB40	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 2x AI ‣ 12 Bit ‣ Current 0(4)...20 mA 	
031-1BB60	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 2x AI ‣ 12 Bit ‣ Current 0(4)...20 mA ‣ 2 wire 	
031-1BB70	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 2x AI ‣ 12 Bit ‣ Voltage -10 V...+10 V 	
031-1BB90	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 4x AI ‣ 12 Bit ‣ Voltage 0...10 V 	
031-1BD40	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 4x AI ‣ 12 Bit ‣ Current 0(4)...20 mA 	
031-1BD70	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 4x AI ‣ 12 Bit ‣ Voltage -10 V...+10 V 	

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Order no.	Name/Description	
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	
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	



MICRO

SLIO

200V

300S+

HMI

Teleservice

Safety

Software

Accessories

Appendix

SLIO

Order no.	Name/Description	
DMS modules		
031-1CA20	SM 031 - Analog input <ul style="list-style-type: none"> ‣ 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 $\pm 0,1\%$ ($\pm 0,01\%$) ‣ Onboard power supply 2V5, 5 V, 7V5, 10 V und 12 V 	
Energy measurement modules		
031-1PA00	Energy measurement module <ul style="list-style-type: none"> ‣ AI1x 3Ph 230/400V 1A ‣ Remanente Speicherung der Energiewerte Diagnosefunktion ‣ Auflösung Messwert 24 Bit ‣ 3-Phasen und N-Leiter ‣ Elektrische Leistung Elektrische Arbeit ‣ Harmonische Oberwellen ‣ Phasenverschiebung cos ‣ Frequenz 	
031-1PA10	Energy measurement module <ul style="list-style-type: none"> ‣ AI1x 3Ph 230/400V 1/5A ‣ Remanente Speicherung der Energiewerte Diagnosefunktion ‣ Auflösung Messwert 24 Bit ‣ 3-Phasen und N-Leiter ‣ Elektrische Leistung Elektrische Arbeit ‣ Harmonische Oberwellen ‣ Phasenverschiebung cos ‣ Frequenz 	
Analog output modules		
032-1BB30	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 2x AO ‣ 12 Bit ‣ Voltage 0...10 V 	
032-1BB40	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 2x AO ‣ 12 Bit ‣ Current 0(4)...20 mA 	
032-1BB70	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 2x AO ‣ 12 Bit ‣ Voltage -10 V...+10 V 	
032-1BD30	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 4x AO ‣ 12 Bit ‣ Voltage 0...10 V 	
032-1BD40	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 4x AO ‣ 12 Bit ‣ Current 0(4)...20 mA 	
032-1BD70	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 4x AO ‣ 12 Bit ‣ Voltage -10 V...+10 V 	
032-1CB30	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 2x AO ‣ 16 Bit ‣ Voltage 0...10 V 	
032-1CB40	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 2x AO ‣ 16 Bit ‣ Current 0(4)...20 mA 	
032-1CB70	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 2x AO ‣ 16 Bit ‣ Voltage -10 V...+10 V 	
032-1CD30	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 4x AO ‣ 16 Bit ‣ Voltage 0...10 V 	
032-1CD40	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 4x AO ‣ 16 Bit ‣ Current 0(4)...20 mA 	
032-1CD70	SM 032 - Analog output <ul style="list-style-type: none"> ‣ 4x AO ‣ 16 Bit ‣ Voltage -10 V...+10 V 	



SLIO

Order no.	Name/Description	
RS232/422/485 and other CPs		
040-1BA00	CP 040 - Communication processor <ul style="list-style-type: none"> ‣ RS232 interface ‣ Protocols ASCII, STX/ETX, 3964(R) and Modbus RTU (master, slave) 	
040-1CA00	CP 040 - Communication processor <ul style="list-style-type: none"> ‣ RS422/485 interface ‣ Protocols ASCII, STX/ETX, 3964(R) and Modbus RTU (master, slave) 	
Positiner-Module		
054-1BA00	FM054 - Stepper motor module <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 1-channel RS422 with feedback ‣ 4 configurable in-/outputs I/O1... I/O4 ‣ Operating modes: CW/CCW, PLS/DIR, ENC/SIM 	
SSI modules		
050-1BS00	FM 050S - SSI module <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 1x Counter 32 Bit (AB), DC 5 V ‣ Up to 2 MHz (difference signal) 	
050-1BB00	FM 050 - Counter module <ul style="list-style-type: none"> ‣ 2x Counter 32 Bit (AB), DC 24 V ‣ Up to 400 kHz 	
050-1BB30	FM 050 - Counter module Eco <ul style="list-style-type: none"> ‣ 2x Counter 32 Bit (AB) DC 24 V ‣ Up to 400 kHz 	
050-1BB40	FM 050 - Frequency measurement <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 16x Rx and 16x Tx PDOs ‣ 2x SDOs ‣ PDO-Linking ‣ PDO-Mapping: fix ‣ Up to 64 peripheral modules 	
053-1DN00	IM 053DN - DeviceNet slave <ul style="list-style-type: none"> ‣ Group 2 only Device ‣ Poll only Device ‣ Baud rate: 125, 250 and 500 Kbit/s ‣ Up to 64 peripheral modules 	Last Time Buy 31.08.2021
053-1DP00	IM 053DP - PROFIBUS-DP slave <ul style="list-style-type: none"> ‣ 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 	



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Order no.	Name/Description	
053-1EC01	IM 053EC - EtherCAT slave <ul style="list-style-type: none"> › 2-Port Switch RJ45 100BaseTX full duplex › 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 	
053-1IP01	IM 053IP - EtherNet/IP slave <ul style="list-style-type: none"> › 2-Port Switch RJ45 100BaseTX full duplex › Up to 64 peripheral modules › Supports FMM (Free Module Mapping) › Various diagnostics functions › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Supports HotConnect, Easy Maintenance › Web server integrated › Status LEDs 	
053-1ML00	IM 053ML - MECHATROLINK <ul style="list-style-type: none"> › 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 	
053-1MT01	IM 053MT - Modbus/TCP slave <ul style="list-style-type: none"> › 2-Port Switch RJ45 100BaseTX full duplex › Up to 64 peripheral modules › Supports FMM (Free Module Mapping) › Various diagnostics functions › Integrated DC 24V power supply for power and electronic section supply of the periphery modules › Supports HotConnect, Easy Maintenance › Web server integrated › Status LEDs 	
053-1PN01	IM 053PN - PROFINET-IO slave <ul style="list-style-type: none"> › 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 	

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Order no.	Name/Description	
Line extensions		
060-1AA00	IM060 Line Extension <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › Length: 2000 mm 	
290-1AF30	35 mm profile rail <ul style="list-style-type: none"> › Length: 530 mm 	
Cables		
950-0KD30	SLIO line extension cable <ul style="list-style-type: none"> › Length: 2 m › Connector: 2x RJ45 › Plug connector › Required to connect the modules IM060 and IM061 	
Miscellaneous		
000-0AA00	SLIO bus cover <ul style="list-style-type: none"> › 1 piece 	
000-0AB00	SLIO shield bus carrier <ul style="list-style-type: none"> › 10 pieces 	
000-0AC00	SLIO shield bus carrier <ul style="list-style-type: none"> › 100 pieces › For secure coding of SLIO modules 	
000-0DN00	SLIO DeviceNet Connector <ul style="list-style-type: none"> › 1 piece › For IM 053-1DN00 › Contact surface: gold › Pole number: 5 › Contact termination: spring force connection 	Last Time Buy 31.08.2021







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Order no.	Name/Description	Price in EUR
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	



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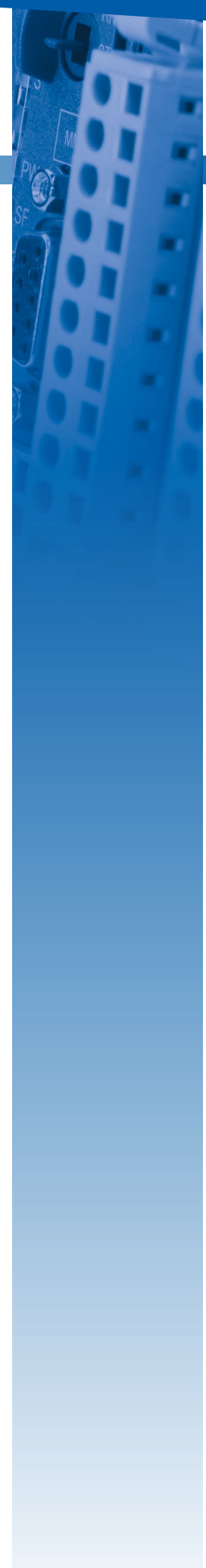
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Order no.	Name/Description	Price in EUR
CPUs STEP7 programmable, PtP		
214-2BS13	VIPA CPU 214SER RS232 † Work memory [KB]: 96 † Interface [RS232]: MPI † Interface [RS232]: PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave † MMC card slot, 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	



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Order no.	Name/Description	Price in EUR
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	
221-1BH51	SM 221 - Digital input ▶ 16x DI ▶ DC 24 V ▶ NPN	
221-1FF50	SM 221 - Digital input ▶ 8x DI ▶ AC/DC 180...265 V	
221-2BL10	SM 221 - Digital input ▶ 32x 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	



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Order no.	Name/Description	Price in EUR
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	

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Order no.	Name/Description	Price in EUR
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	



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Order no.	Name/Description	Price in EUR
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	
Kombi-Module		
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- u. sonstige 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	
Feldbus-Master-Module		
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	
Zählermodule		
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-Module		
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	

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Order no.	Name/Description	Price in EUR
Positioning modules		
253-1BA00	FM 253 - Positioning module <ul style="list-style-type: none"> › For 1-axis drive with stepper › 3x DI, DC 24 V › Inputs for connecting end switches › 2x DO, 24 V › Isolated 	
Fieldbus slave modules without I/Os		
253-1CA01	IM 253CAN - CANopen slave <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 1-tier 	
290-0AA20	Bus connector <ul style="list-style-type: none"> › 2-tier 	
290-0AA40	Bus connector <ul style="list-style-type: none"> › 4-tier 	
290-0AA80	Bus connector <ul style="list-style-type: none"> › 8-tier 	
35 mm profile rail		
290-1AF00	35 mm profile rail <ul style="list-style-type: none"> › Length: 2000 mm 	
290-1AF30	35 mm profile rail <ul style="list-style-type: none"> › Length: 530 mm 	
Front connector		
292-1AF00	Front connector <ul style="list-style-type: none"> › 10 pin › Cage clamps 	
292-1AH00	Front connector <ul style="list-style-type: none"> › 18 pin › Cage clamps 	



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Order no.	Name/Description	Price in EUR
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	
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	





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Order no.	Name/Description	
CPUs STEP7 programmable, standard		
314-2AG23	VIPA CPU 314SB DPM <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 	



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Order no.	Name/Description	
315-4PN43	VIPA CPU 315PN ECO <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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, C-Klasse		
312-5BE23	VIPA CPU 312SC <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 	



MICRO

CPU

200V

300S+

HMI

Teleservice

Safety

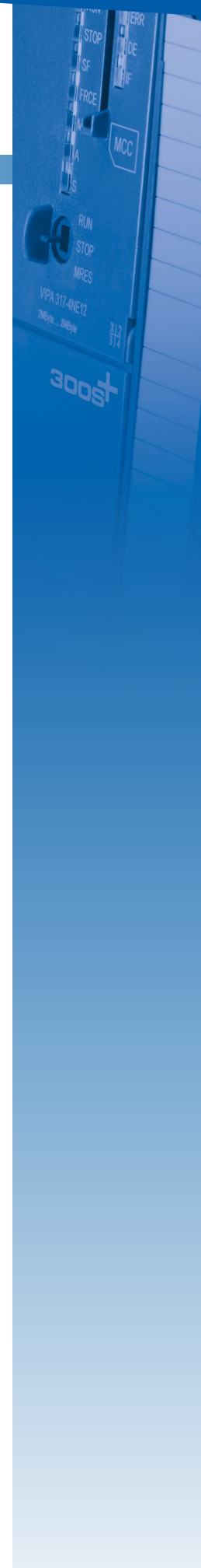
Software

Accessories

Appendix

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	
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	



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Order no.	Name/Description	
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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 8x fast AI ‣ 16 Bit ‣ Voltage +/- 10 V ‣ Potential isolation between the channels ‣ 25µs...1000µs sampling 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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 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 <ul style="list-style-type: none"> ‣ 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-CPU's † 32 KB † 16 KB program/16 KB data	
953-1LF00	Memory Configuration Card (MCC) 64 KB † For SPEED7-CPU's † 64 KB † 32 KB program/32 KB data	
953-1LG00	Memory Configuration Card (MCC) 128 KB † For SPEED7-CPU's † 128 KB † 64 KB program/64 KB data	



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Order no.	Name/Description	
953-1LH00	Memory Configuration Card (MCC) 256 KB ▶ For SPEED7-CPU's ▶ 256 KB ▶ 128 KB program/128 KB data	
953-1LJ00	Memory Configuration Card (MCC) 512 KB ▶ For SPEED7-CPU's ▶ 512 KB ▶ 256 KB program/256 KB data	
953-1LK00	Memory Configuration Card (MCC) 1 MB ▶ For SPEED7-CPU's ▶ 1 MB ▶ 512 KB program/512 KB data	
953-1LL00	Memory Configuration Card (MCC) 2 MB ▶ For SPEED7-CPU's ▶ 2 MB ▶ 1 MB program/1 MB data	
953-1LM00	Memory Configuration Card (MCC) 4 MB ▶ For SPEED7-CPU's ▶ 4 MB ▶ 2 MB program/2 MB data	
953-1LP00	Memory Configuration Card (MCC) 8 MB ▶ For SPEED7-CPU's ▶ 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	
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	



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Order no.	Name/Description	
Front connector		
392-1AJ00	Front connector ‣ 20 pole ‣ Screw contact	
392-1BJ00	Front connector ‣ 20 pole ‣ Cage clamps	not discountable
392-1AM00	Front connector ‣ 40 pole ‣ Screw contact	
392-1BM01	Front connector ‣ 40 pole ‣ Cage clamps	not discountable
922-3BC50	Preassembled front connectors ‣ For 300 series ‣ 20 pin with 20 single cores 0,5 mm ² ‣ 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 mm ² ‣ 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 mm ² ‣ 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 mm ² ‣ 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 mm ² ‣ 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 mm ² ‣ 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 ² ‣ Cable length: 5 m	



MICRO

F.I/O

200V

300S+

HMI

Teleservice

Safety

Software

Accessories

Appendix





| HMI

HMI

Order no.	Name/Description	
professional Panels		
62G-FID0-CB	VIPA Touch Panel TP 606C <ul style="list-style-type: none"> ‣ 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 	End of Sales 05/2021
62G-FID0-CB	VIPA Touch Panel TP 606C <ul style="list-style-type: none"> ‣ Display: 6,5" ‣ Processor: ARM Cortex A9 800MHz ‣ RAM [MB]: 1024 ‣ User memory [MB]: 8192 ‣ 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: WEC7 Movicon CE Standard 	Successor for 62G-FID0-CB from 06/2021
62I-JID0-CB	VIPA Touch Panel TP 608C <ul style="list-style-type: none"> ‣ 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 	End of Sales 05/2021
62I-JID0-CX	VIPA Touch Panel TP 608C <ul style="list-style-type: none"> ‣ 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 	End of Sales 05/2021
62I-JJK0-EB	TouchPanel TP608C <ul style="list-style-type: none"> ‣ Display: 8,4" ‣ Processor: ARM Cortex A9 800MHz ‣ Ram [MB]: 1024 ‣ User memory [MB]: 8192 ‣ 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: WEC7 Movicon CE Standard 	Successor for 62I-JID0-CB and 62I-JID0-CX from 06/2021
62K-JJK0-EB	TouchPanel TP610C <ul style="list-style-type: none"> ‣ Display: 10,4" ‣ Processor: ARM Cortex A9 800MHz ‣ Ram [MB]: 1024 ‣ User memory [MB]: 8192 ‣ 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: WEC7 Movicon CE Standard 	Successor for 62K-JID0-CB and 62K-JID0-CX
62M-JJK0-EB	TouchPanel TP612C <ul style="list-style-type: none"> ‣ Display: 12" ‣ Processor: ARM Cortex A9 800MHz ‣ Ram [MB]: 1024 ‣ User memory [MB]: 8192 ‣ 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: WEC7 Movicon CE Standard 	Successor for 62M-JID0-CB and 62M-JID0-CX
Panel PC		
67K-RSL0-JB	Panel PC PPC010 ES <ul style="list-style-type: none"> ‣ 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 	

HMI

Order no.	Name/Description	
67K-RSLO-JX	Panel PC PPC010 ES <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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-RSLO-JB	Panel PC PPC015 ES <ul style="list-style-type: none"> › 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-RSLO-JX	Panel PC PPC015 ES <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 	
67S-RSLO-JB	Panel PC PPC021 ES <ul style="list-style-type: none"> › 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-RSLO-JX	Panel PC PPC021 ES <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 	



HMI

Order no.	Name/Description	
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	
Text displays and operator panels		
603-1TD00	VIPA Text Display TD 03 † Display: 2 x 20 characters † Interface: MP ² I † 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: MP ² I † 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: MP ² I † 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	



HMI

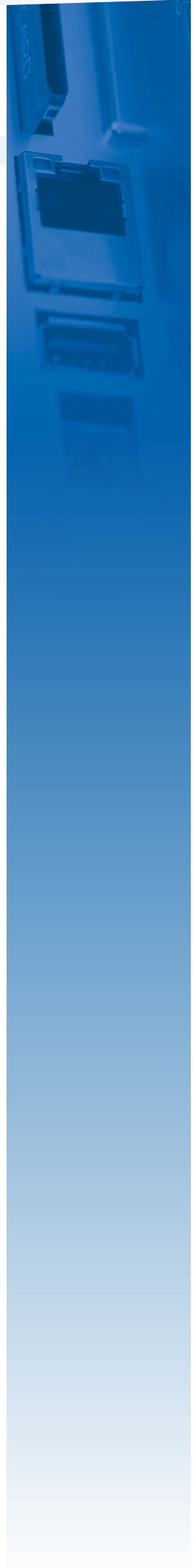
Order no.	Name/Description	
UPGWB-1101PC128	Expansion by 1 web client [128 IO bytes] ▶ for Movicon version 11.x for Windows ▶ up to 128 IO-Bytes ▶ online upgrade ▶ executable only on VIPA Panel PCs ▶ expansion for a Movicon 11 Win Standard license ▶ the number of the IO bytes has to correspond ▶ Non-recurring costs per order of 150€ (Art. no. CPTZ)	
UPGWB-1101PC512	Expansion by 1 web client [512 IO bytes] ▶ for Movicon version 11.x for Windows ▶ up to 512 IO-Bytes ▶ online upgrade ▶ executable only on VIPA Panel PCs ▶ expansion for a Movicon 11 Win Standard license ▶ the number of the IO bytes has to correspond ▶ Non-recurring costs per order of 150€ (Art. no. CPTZ)	
UPGWB-1101PC2048	Expansion by 1 web client [2048 IO bytes] ▶ for Movicon version 11.x for Windows ▶ up to 2048 IO-Bytes ▶ online upgrade ▶ executable only on VIPA Panel PCs ▶ expansion for a Movicon 11 Win Standard license ▶ the number of the IO bytes has to correspond ▶ Non-recurring costs per order of 150€ (Art. no. CPTZ)	
UPGWB-1102PC128	Expansion by 2 web clients [128 IO bytes] ▶ for Movicon version 11.x for Windows ▶ up to 128 IO-Bytes ▶ online upgrade ▶ executable only on VIPA Panel PCs ▶ expansion for a Movicon 11 Win Standard license ▶ the number of the IO bytes has to correspond ▶ Non-recurring costs per order of 150€ (Art. no. CPTZ)	
UPGWB-1102PC512	Expansion by 2 web clients [512 IO bytes] ▶ for Movicon version 11.x for Windows ▶ up to 512 IO-Bytes ▶ online upgrade ▶ executable only on VIPA Panel PCs ▶ expansion for a Movicon 11 Win Standard license ▶ the number of the IO bytes has to correspond ▶ Non-recurring costs per order of 150€ (Art. no. CPTZ)	
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	CFast-Card 8GB SLC ▶ For VIPA Panel PC	
574-2BL00	CFast-Card 16GB SLC ▶ 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	



HMI



MICRO

ELIO

200V

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Appendix



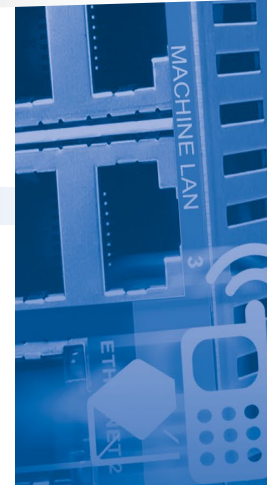


| Teleservice

Teleservice

Order no.	Name/Description	
Teleservice modules		
EC51460	Cosy 141 MPI VPN Router <ul style="list-style-type: none"> › 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 › Certifications: CE, cCSAus 	
EC61330	Cosy 131 Eth. Router <ul style="list-style-type: none"> › 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 › Marking: CE, cULus listed, FCC 	
EC6133C	Cosy 131 WIFI Router <ul style="list-style-type: none"> › 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 › Marking: CE, cULus listed, FCC <p>WIFI-Features:</p> <ul style="list-style-type: none"> › WAN Connectivity: Ethernet or WiFi 802.11 b/g/n › Frequencies: Channels: 1 to 11(inclusive) › Security: WPA2, WPA and WEP › Antenna Connector: RP-SMA female connector › Antenna: Included in the delivery; frequency: 2.4GHz; impedance: 50 Ohms; gain: 2.0dBi 	
EC6133D	Cosy 131 3G+ Router <ul style="list-style-type: none"> › 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 › Marking: CE, cULus listed, FCC <p>Cellular 3G+ Features:</p> <ul style="list-style-type: none"> › Frequencies: GSM/GPRS/EDGE Quad-Band (850, 900, 1800, 1900 MHz) - HSPA+ UMTS Pentaband module (800/850, 900, AWS 1700, 1900, 2100 MHz) › Antenna Connector: Type SMA - Female › Antenna: not included in the delivery 	
EC6133G	Cosy 131 4G EU Router <ul style="list-style-type: none"> › 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 › Marking: CE, cULus listed, FCC <p>Cellular 4G EU Features:</p> <ul style="list-style-type: none"> › Bands: 4G: B1, B3, B7, B8, B20; 3G: B1, B8; Automatic fallback to 3G › Antenna Connector: Type SMA - Female › Antenna: not included in the delivery 	
Flexy20500	Flexy IOT Router Base Unit <ul style="list-style-type: none"> › Flexy 205 base module › 4 x RJ45 Ethernet 10/100 Mb. Configurable LAN/WAN ports, port 1 always LAN › Alarms: Alarms notification by email, SMS, FTP put and/or SNMP traps. › Datalogging: Internal data base for data logging › SD card reader: YES, for easy commissioning (firmware upgrade, backup, Talk2M registration). › Router: IP filtering, IP forwarding, NAT, Port forwarding, Proxy, Routing table, DHCP client/server › VPN Tunnelling: Open VPN either in SSL UDP or HTTPS; › VPN Security: end-to-end encrypted using SSL/TLS › User Flash Disk: up to 30MB available for user application › Input/output: 2x digital input: 0 to 12/24VDC; 1.5kV isolation, 1x digital output: open drain (MOSFET) 200mA; 1.5 kV isolation › Marking: CE, cULus listed, FCC 	

Order no.	Name/Description	
FLA3301	Flexy Option Dual Serial Ports ▶ 1x male SUBD9 serial port RS232/422/485 configurable by dipswitch and ▶ 1x male SUBD9 RS232 serial port with RTS, CTS signals	
FLB3202	Flexy Option Cellular 3G+ ▶ Pentaband UMTS/HSPA+ modem (800/850, 900, AWS1700, 1900, 2100 MHz) ▶ Quad band GPRS/EDGE (850, 900, 1800, 1900 MHz) ▶ Type SMA - Female --- Antenna NOT included	
FLB3204	Flexy Option EU 4G LTE ▶ 4G: B7(2600), B1(2100), B3(1800), B8(900), B20 (800)MHz ▶ 3G: B1 (2100), B8 (900) MHz ▶ 2G: B3 (1800) , B8(900) MHz ▶ Type SMA - Female --- Antenna NOT included	
FLB3205	Flexy Option North America 4G LTE ▶ AT&T compliant ▶ 4G: B12/B17(700),B5(850), B4(AWS1700),B2(1900), B13(700)MHz ▶ 3G: B2(1900), B5(850)MHz ▶ Type SMA - Female --- Antenna NOT included	
FLB3203	Flexy Option VERIZON 4G LTE ▶ only Verizon network compatible, no CDMA ▶ 4G: B4(AWS1700), B13(700) MHz ▶ Type SMA - Female --- Antenna NOT included	
FLB3271	Flexy Option WIFI ▶ WiFi: 802.11 b/g/n WiFi/WLAN client for remote connection ▶ Channels: 1 to 11 (inclusive) WPA2, WPA and WEP ▶ Reverse SMA male connector, Antenna included in the delivery; ▶ frequency: 2.4 GHz; impedance: 50 Ohms, gain:2.0 dB	
FLB3601	Flexy Option 3 USB Ports Card ▶ 4 leds : 1 global status, 1 for each port status ▶ Type A female, Each port has its own 500mA current limit. ▶ Global current limit on the board is 500mA. ▶ All ports will be enabled/disabled together. ▶ Isolation: ▶ Earth GND isolation is limited to 500V due to USB connector design.	
FLX3101	Flexy Option Ethernet WAN ▶ 1x RJ45 Ethernet 10/100 base Tx; 1.5kV isolation	
FLX3402	Flexy Option Extension I/O card ▶ I/O card with 8x DI, 2x DO, 4x AI (0-10V, 4-20mA) Range: ▶ AI : voltage mode 0-10V - 16 bit resolution or current mode 4-20mA, user selectable with Dip Switch configuration. ▶ DI : 0 to 12/24 VDC,DO: 2A/30V VAC/VDC Isolation: ▶ AI: 1.5kV from power supply ▶ DI: 1.5 kV from electronic AND power supply ▶ DO: 1.5kV from electronic AND from power supply	
FLC3701	Flexy Option MPI / PB ▶ 1 x female SUBD9 MPI port, 1.5kV functional isolation from power supply	
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	



MICRO

I/O

200V

300S+

HMI

Teleservice

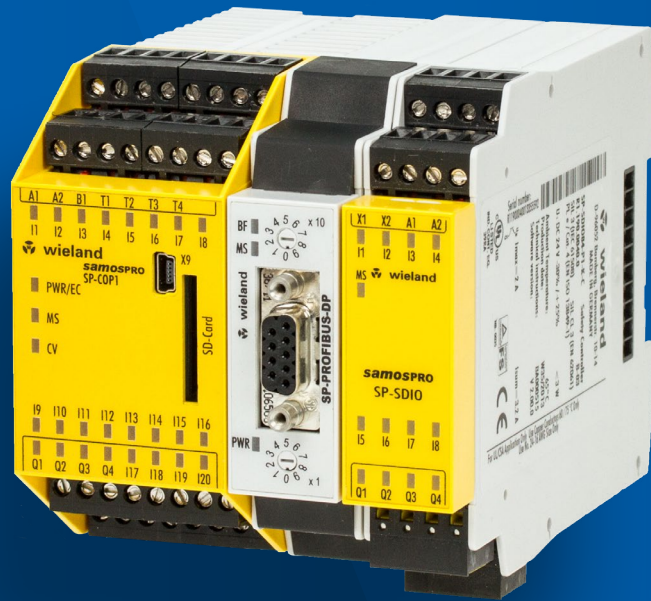
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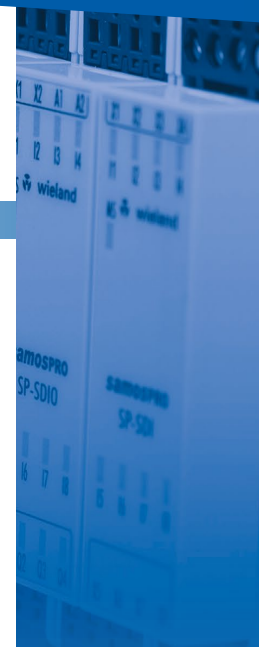




| Safety

Safety

Order no.	Name/Description	
Safety electronics modules		
R119000300	samosPRO SP-SDIO84-P1-K-A † samosPRO † IO-module with 8 input/4 solid state output † Screw 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	
Compact modules		
R119011100	samosPRO SP-COP1-A † samosPRO-COP1-COMPACT-module safety control † With USB-interface † 20 safe inputs/4 safe outputs † Screw terminals pluggable	
R119011200	samosPRO SP-COP1-A † samosPRO-COP1-COMPACT-module safety control † With USB-interface † 20 safe inputs/4 safe outputs † Cage clamp terminals pluggable	
R119011300	samosPRO SP-COP1-P-A † samosPRO-COP1-COMPACT-module safety control, PLUS version † Incl. press function and standstill monitoring † With USB-interface † 20 safe inputs/4 safe outputs † Screw terminals pluggable	
R119011400	samosPRO SP-COP1-P-C † samosPRO-COP1-COMPACT-module safety control, PLUS version † Incl. press function and standstill monitoring † With USB-interface † 20 safe inputs/4 safe outputs † Cage clamp terminals pluggable	



Safety

Order no.	Name/Description	
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	



MICRO

I/O

200V

300S+

HMI

Teleservice

Safety

Software

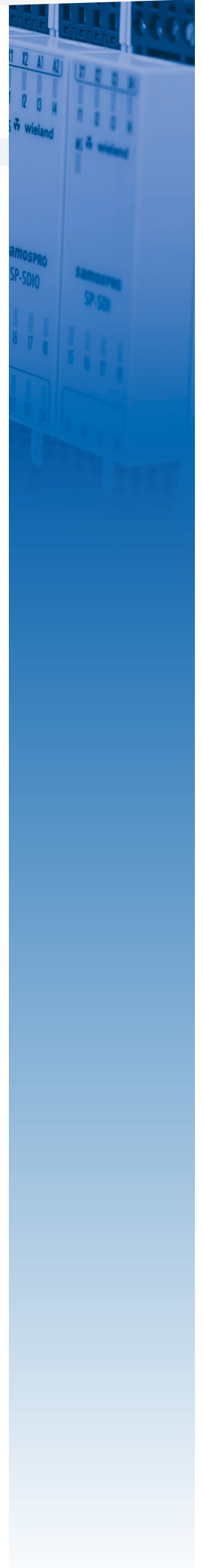
Accessories

Appendix

Safety

Order no.	Name/Description	
Safety Accessoires		
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	
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	





MICRO

PLC

200V

300S+

HMI

Teleservice

Safety

Software

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| 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 license for SPEED7 Com Drivers Software Download ▶ S7-communication driver (Windows 32-Bit-DLL) for all major high-level languages (C+., C#, VB, VB.NET, DELPHI) ▶ For VIPA SPEED7 PLCs and SIEMENS S7 PLCs ▶ Windows XP (SP3), Windows Vista, Windows 7 (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) and 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	
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	
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	



Software

Order no.	Name/Description	
Parameterization software		
SW31OB1MA	VIPA OP-Manager License ▶ Parametrization tool for OP 03 ▶ *NOT COMPATIBLE WITH WINDOWS 10	
SW31WB1MA	VIPA WinCoCT License ▶ Parametrization tool for VIPA CANopen CPUs and CPs ▶ *NOT COMPATIBLE WITH WINDOWS 10	
SW614B1MA	Movicon 11 Yaskawa Edition - Standalone License ▶ Standalone license for Movicon 11 Yaskawa Edition (Editor) ▶ * Does not require SPEED7 Studio	



MICRO

EIO

200V

300S+

HMI

Teleservice

Safety

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Accessories

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| Accessoires

Accessoires

Order no.	Name/Description
S5 components	
306-1LE00	IM 306 DP slave - 115U ZG/EG IM <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › Converting Siemens S5 systems to S7 › Exclusively suited for AG-135U/155U central controller
DP-Repeater	
920-1BB10	VIPA PROFIBUS-Repeater B1 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 1 segment and 31 devices per channel › Screw terminal and DB9 plug connector › Integrated terminators (disconnectable) › Redundant power supply
920-1CA50	VIPA MultiRepeater A5 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 9,6 Kbps up to 12 Mbps › Removable screw terminals and 1 DB9 terminal › Power supply specifications › Redundancy: current 1 OR 2 › Diagnostic LEDs



Accessoires

Order no.	Name/Description	
Ethernet-Switches		
910-1EN50	VIPA unmanaged Industrial-Switch EN5-R <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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-ODP01	EasyConn 90° - PROFIBUS plug <ul style="list-style-type: none"> › Clock rate up to 12 Mbit/s › Metal case › PG jack › Switchable terminating resistor › 90° outgoing cable › Packaging unit: 1 piece 	
972-ODP10	EasyConn 90° - PROFIBUS plug <ul style="list-style-type: none"> › 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-ODP20	EasyConn 45° - PROFIBUS plug <ul style="list-style-type: none"> › 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-ODP30	EasyConn 0° - PROFIBUS plug <ul style="list-style-type: none"> › 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 <ul style="list-style-type: none"> › 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 	



MICRO

FLO

200V

300S+

HMI

Teleservice

Safety

Software

Accessories

Appendix

Accessoires

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	
900-0AB51	TM antenna GSM/UMTS ▶ Mobile antenna incl. 5 m cable ▶ SMA connector ▶ Resistance: 50 Ohm ▶ Power: 10 W ▶ Gain: 2,14 dBi ▶ 900/1800 MHz	





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| 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 YASKAWA Europe GmbH 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 01.04.2021 and replaces all previous price lists.
The price list may be subject to changes, especially as far as the values, dimensions and weights are concerned, if nothing different is noted explicitly.
The goods will be invoiced at the date of dispatch.

Manuals



When ordering modules, you will receive the corresponding customer documentation free of charge as PDF on our webpage.
The latest versions of all our manuals can be found on our homepage: www.vipa.com -> Service -> manuals.
For further information please contact us:
Export sales: +49 (0)9132/744 - 1675 or -1670
Domestic sales: +49 (0)9132 / 744 - 1730
Homepage: <http://www.vipa.com>

Legend/Trademarks



MP2I = MPI + RS232

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Any liability for misprints or errors is excluded.

Availability and technical specifications are subject to change without notice.

General terms and conditions

1. Scope

(1) The following General Terms and Conditions of Delivery and Payment (the „GTCs“) shall apply to each order placed by the customer with us. They shall also apply to all future deliveries, performances or offers to customers even if not included again separately. If the creation and provision of computer programs is the object of a contract, our „General Licence Terms for the Provision and Use of Software“ shall apply as far as they contain provisions that are contrary to these GTCs. Apart from that, these GTCs shall apply.

(2) Any conflicting terms and conditions of the customer are hereby rejected; such terms and conditions shall only be binding if we have expressly agreed to them in writing.

2. Offers and Orders

(1) Offers made by us are non-binding until we confirm an order in writing. Samples and specimens are outline details only that are not binding to us.

(2) We shall be entitled to accept a customer's offer to enter into a contract within four weeks upon our receipt of the offer, unless the customer's offer provides otherwise. The scope of the delivery shall be as defined in our confirmation of the offer.

(3) Our acceptance of the customer's offer to enter into a contract must be in writing to be effective, facsimile and e-mail being sufficient.

(4) We shall be entitled to make partial deliveries as far as this is reasonably acceptable for the customer. A partial delivery is, in particular, reasonably acceptable if

a) the partial delivery may be used by the customer within the scope of the contractually intended use;

b) the delivery of the remaining ordered goods is ensured, and

c) no additional expenses or costs are incurred by the customer due to the partial delivery, unless we declare that we are willing to compensate such costs.

(5) Sample deliveries are considered to have been accepted by the customer subject to these GTCs after the expiration of the agreed time period, unless otherwise agreed in writing or the sample deliveries have been returned to us by the customer during the sample period.

3. Prices

(1) Our prices do not include statutory Value Added Tax (VAT) and are understood net ex works, excluding packaging, insurance, assembly, postage and delivery costs. This is without prejudice to clause 11.

(2) If the time period between the acceptance and the delivery date exceeds four months and our manufacturing or production costs during such time period increase, we shall be entitled to claim such increased costs from the customer.

4. Terms of Payment

(1) The terms of payment shall be subject to the relevant arrangement between Yaskawa and the customer. The relevant point of time regarding the timeliness of a payment shall be the receipt of the payment by us.

(2) In case the customer fails to render payment in due time, or in case payments are deferred, the outstanding amounts shall bear interest at a rate of 5% p.a. as of the due date. In case of any default in payment by the customer, the customer shall pay default interest accruing at a rate of 8 percentage points above the base interest rate p.a. In addition, we reserve the right to claim higher damages or assert further claims.

(3) A set-off against our claims shall only be valid with such claims of the customer that are undisputed or have been recognised in a final and absolute court judgment. The same shall also apply to retention rights that the customer may exercise.

5. Delivery

(1) All our delivery are free carrier from Yaskawa's warehouse or production site (FCA, Incoterms 2010), unless otherwise agreed.

(2) Unless agreed otherwise, periods agreed for our deliveries and performances commence on the receipt of our acceptance by the customer.

(3) Delivery dates and delivery periods shall only be binding upon an express and written confirmation by us.

(4) Deadlines are considered to be met if the goods have been delivered to the customer prior to the expiry of the deadline in accordance with FCA (Incoterms 2010) or other agreed Incoterms.

(5) We shall not be liable for impossibility of delivery or for delays in delivery as a result of events considered to be force majeure or of other events that were at the time of the conclusion of the contract unforeseeable (e.g. any kind of operational breakdowns, transport delays, strikes, lawful lockouts, shortages of labour, raw materials or energy supplies, difficulties in obtaining any requisite official permits, governmental actions or any deliveries by suppliers which are outstanding, incomplete or late), that we are not responsible for. In such cases we shall immediately inform the customer. If the force majeure event persists for more than six months, each party may rescind from the contract.

(6) If the delivery of goods is delayed by us, we will use reasonable efforts to deliver the goods at a later stage at once.

(7) If the customer delays or fails to pick up the goods, we will charge a storage fee of 5 % of the purchase price for the goods, or alternatively the actual storage costs incurred.

6. Bearing of Risk

(1) Risk shall pass to the customer as soon as the goods are ready for dispatch and we have notified the customer in writing or orally about our readiness for dispatch, at the latest however if the goods have left our warehouse for delivery to the customer.

(2) Transport insurance shall only be concluded at customer's request and expense.

7. Reservation of Title

(1) We shall retain full title of the goods delivered until full payment of all current or future claims arising from the business relationship with the customer (the „Reserved Goods“).

(2) If the customer alters or processes the Reserved Goods, such work shall be deemed to be carried out on our behalf. Where the Reserved Goods are processed or incorporated with other products, we shall be the co-owner of the resulting products in the proportion of the value of the Reserved Goods to the value of the other products. This clause 7 shall apply to any such new product accordingly.

(3) The customer shall keep the Reserved Goods on our behalf in safe custody with the diligence of a prudent businessman.

(4) Subject to withdrawal, the customer may only use the Reserved Goods in the ordinary course of business and only resell the Reserved Goods subject to retention of title. Without our prior consent, the customer shall not be entitled to otherwise dispose of the Reserved Goods in a way that interferes with or otherwise endangers our rights in such goods, including, but not limited to, pledge or transfer as security.

(5) The customer shall immediately inform us in the event of any third party action against the Reserved Goods or against any receivables assigned to us as security and to provide us with all documentation necessary to initiate third-party counterclaim proceedings. The costs of any such third-party counterclaim proceedings or any action required to otherwise redress such third-party action and to replace the Reserved Good shall be borne by the customer, to the extent not reimbursed by a third party.

(6) The customer hereby assigns to us all claims arising from the resale of the Reserved Goods or from the processing of the Reserved Goods, as security for the customer's current and future obligations arising from the business relationship between us and the customer. In the event that the customer resells the Reserved Goods to a third party together with other goods, the customer hereby assigns to us its purchase price claim in an amount of the value of the Reserved Goods. We hereby accept such assignment. As long as the customer complies with its contractual obligations, the assignment of the foregoing claims shall be treated as an undisclosed assignment. Subject to withdrawal, the customer is hereby authorised to collect such claims. In case of withdrawal, the customer shall, at our request, provide us with all information relating to the assigned claims and the debtors that are required to collect such claims by ourselves and shall inform the debtors of the assignment of such claims.

(7) We will not exercise our rights of withdrawal under clause 7(4) and clause 7(6) unless the customer is in default in making payments or unless an application to open a settlement or insolvency proceedings has been filed or the customer has suspended its payments.

(8) If and to the extent a reservation of title is not effective in the jurisdiction in which the contractual goods are located, it shall be deemed agreed that the customer provides us with a security that has the same or similar effect to a reservation of title. If the cooperation of the customer is required in order to create such security, the customer will, at its own expense, take all necessary actions without undue delay.

(9) The customer shall insure the Reserved Goods against theft, breakage, fire, water and other damage at its own expense.

8. Warranty

(1) To the extent that the products delivered by us and the performances rendered by us are defective, we shall, at our option, remedy such defects or arrange for a replacement delivery in accordance with the statutory regulations and the provisions of this clause 8. The customer may only rescind from the contract after two attempts to rectify the defect have failed. Claims for damages exist only to the extent as set out in clause 9. Any replaced products and parts not already owned by us will become our property.

(2) Any claims in relation to defects will become time-barred 12 months after passing of risk or completion of the service and/or repair works.

(3) The customer is required to inspect each delivered product upon receipt without undue delay. Warranty claims shall be excluded if any objections as to the quantity of goods and as to defects identifiable by careful inspection are not notified to us in writing within eight business days upon delivery; the same shall apply to objections regarding hidden defects which are not notified to us within eight business days after its identification.

(4) If a notice of defects of the customer is unjustified, the customer shall reimburse all expenses that we have incurred due to the unjustified notice of defect, provided that it was its fault.

(5) A defective assembly or assembly service conducted by us shall not be deemed as a material defect under the rules for purchase agreements, but only as a defect under the rules for works agreements.

9. Liability for Damages

- (1) Our liability – irrespective of the legal basis – is limited to damages that we or our legal representatives or vicarious agents have caused by wilful misconduct or gross negligence or, in case of a breach of essential contractual duties, by simple negligence.
- (2) Essential contractual obligations include, but are not limited to, the obligation to render performance in a timely manner and without defects, as well as obligations to give advice, to protect and to exercise due care, which shall have the purpose to enable the customer to use the delivered goods according to the contract or to protect the personnel of the customer or third parties from danger to life and limb or customer's property from substantial damage.
- (3) In cases of simple negligence, our liability is limited to damages which are typical in comparable cases and which were foreseeable at the time the contract was concluded or, at the latest, at the time the breach of duty was committed, excluding any indirect damages.
- (4) Claims for damages pursuant to the German Product Liability Act, due to guaranteed quality characteristics, or due to damage to life, body or health, shall not be affected by the above provisions.

10. Refusal of performance

- (1) If a contract is not performed due to customer's fault and in breach of contract, the customer shall compensate damages in the amount of all costs incurred by us, but in any event no less than 5% of the net value of the ordered goods, unless the customer can demonstrate that we incurred fewer damages. The same shall apply if we withdraw from the contract for this reason.

11. Special Conditions for Delivery and Assembly

- (1) Costs for assembly, hourly rates, daily rates, travel expenses, other costs etc. can be taken from the current relevant price sheet for the D&M Division or the Robotics Division, respectively.
- (2) Prior to the start of the assembly, all structural works must be completed to a degree that the assembly can begin immediately after delivery. The foundation must be completely dry and hardened and the rooms in which the assembly should take place must be sufficiently protected against weather, well-lit and sufficiently heated.
- (3) The customer must procure at its own costs
- a) a sufficient number of auxiliary workers and skilled workers re-quired for the assembly;
 - b) the devices and materials required for the assembly and op-eration; and
 - c) the unloading of the railway wagons and the transportation of goods from the railway wagons, trucks or vessels to the place of assembly, free of charge. Delays of the assembly and operation that we are not responsible for shall be reimbursed by the customer in accordance with this clause 11. The risk of transportation for brought delivery parts shall be borne by the customer.

12. Special Conditions for Works

The following conditions shall apply if the contract is a contract for work:

- (1) Without undue delay after notification of the completion of the work, the customer shall conduct a test-run of the subject matter of the contract, test its compliance with the contractually agreed functionality and performance and – provided no defects occur, which have to be notified without undue delay – accept the work in writing towards us at the latest within two weeks. If the customer does not notify us of any defects within such two-weeks period, the work is deemed to be accepted, with the effect that the risk as to the performance for the work shall pass to the customer.
- (2) At customer's request, we shall instruct and train the customer's employees on the handling of the work at the customer's location. In such case, the customer shall bear any costs for travelling, accommodation and allowance of our training personnel and provide – if necessary – training rooms and protective clothing in sufficient quantities, free of charge.
- (3) In order to deliver any work on time, the customer must timely and duly comply with its contractual duties to cooperate. If the customer does not or does not duly comply with its duties, the delivery periods shall be extended by the period of delay.
- (4) Detailed provisions in relation to the customer's duty to cooperate are set out in the respective underlying contract.
- (5) Rights of the customer in case of defects after acceptance
- a) If the work is defective, the customer may claim supplementary performance (i.e. remediation of the defect or performance of new work). The choice between remediation of the defect or performance of new work is in our option.
 - b) After the fruitless expiration of a time period set for the supplementary performance, the customer may remedy any defect himself and claim for the compensation of any requisite expenses, unless we were entitled to refuse a supplementary performance.
 - c) In case the remedy of defects fails, we unjustifiably refuse a sup-plementary performance or we do not provide a supplementary performance within a reasonable time period set by the customer, the customer may abate the remuneration or rescind from the contract and claim expenses without avail or claim damages in lieu of performance.
 - d) The customer does not have any claims with regard to defects caused by or resulting from improper operation or maintenance of the work or modifications to the work by the customer or any third party.
 - e) The customer's claims for defects of work become time-barred one year after acceptance of the work.

13. Confidentiality

The customer shall treat all trade and business secrets which are dis-closed to him during the performance of the contract as confidential and shall not disclose such trade and business secrets to third parties. This duty of confidentiality shall remain in force for a period of five years after the expiration of the contract. Yaskawa may claim compensation of any incurred damages in case of an unpermitted disclosure. In addition, the customer shall pay at least EUR 50,000 for each case of noncompliance with its confidentiality obligation.

14. Rights to Work Results / Copyright

The customer shall have a simple, non-exclusive and non-transferable right to use the work results made in the scope of a contract (such as cost estimates, drawings, organisational analyses), to the extent that these are required for the utilisation of the work result in the course of the customer's business activities.

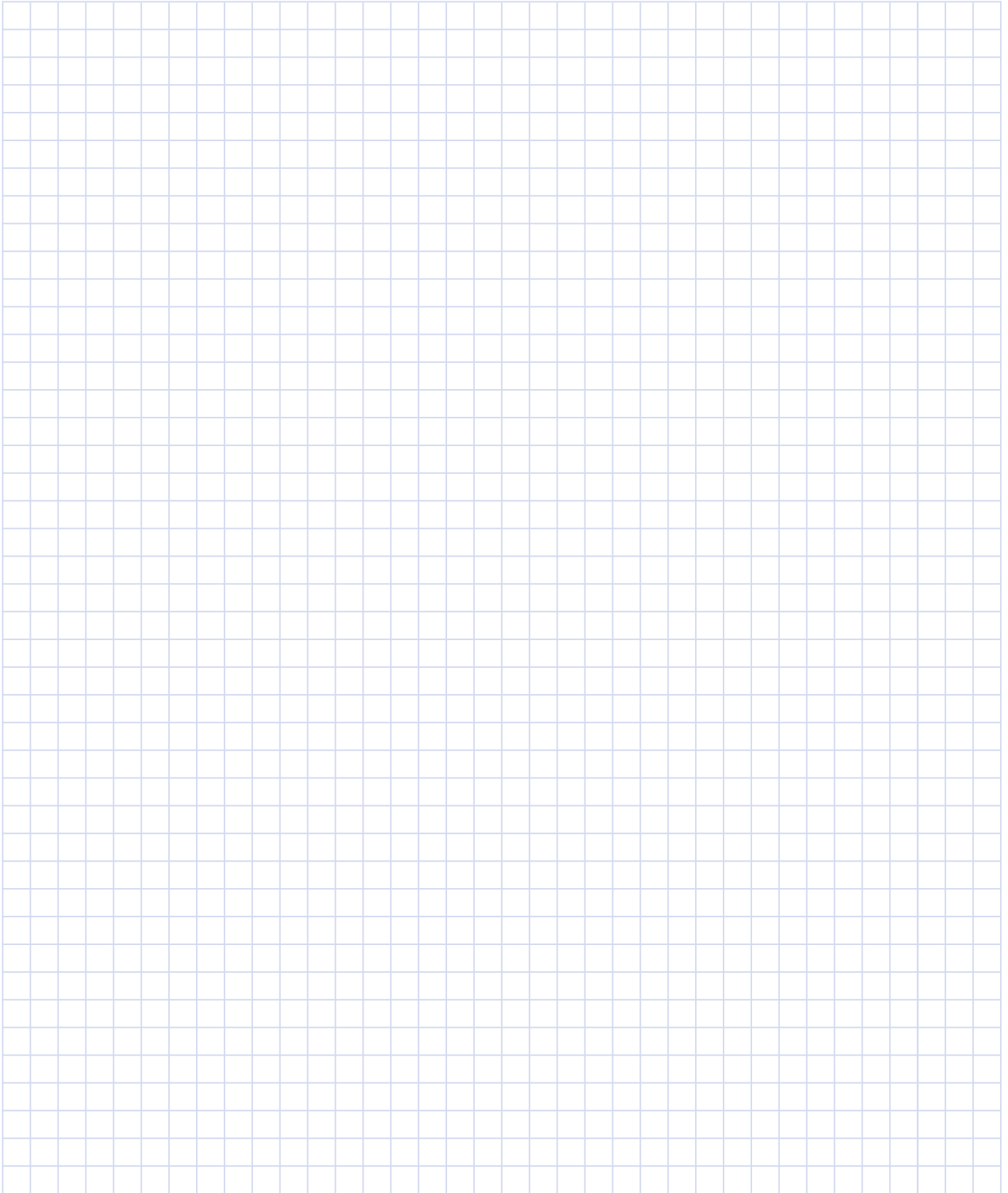
15. Data Protection

Yaskawa Europe GmbH takes the protection of its customers' data very serious. Therefore, we comply with all applicable data protection rules. Yaskawa will not make your data available to any undertaking outside our group, that is not involved in the delivery or performance of your order. Your data that is required for the performance of your order will be stored, processed and used in the Yaskawa group as reasonable necessary. Your data will not be transferred to non-affiliated undertakings. We store and process your address and your order data to improve our offering and for commercial com-munications. You may object against the storage and processing of your data for commercial communication at any time by mail to Yaskawa Europe GmbH, Ohmstr. 4, 91074 Herzogenaurach, Germany or via e-mail to info@yaskawa.eu.com. Following receipt of your objection, we will not use your data for any purposes other than the per-formance of your order.

16. Final Provisions

- (1) The customer shall be responsible for the compliance with any applicable law, writs, rules, regulations and any regulatory actions and policies and shall procure any permissions, licenses and authorisations and the compliance with any other statutory provisions that are necessary to conduct its business in compliance with the applicable law.
- (2) If a delivery of the goods to certain countries or territories or to one or more consignees is not permissible or restricted due to statutory provi-sions or trade regulations and trade sanction applicable to our goods or Yaskawa or Yaskawa's production sites or should such restrictions enter into force after the acceptance of an offer or during the delivery, Yaskawa reserves the right to rescind from the contract and to charge any incurred costs to the customer.
- (3) The contractual relationship is governed by the laws of the Federal Republic of Germany, as between persons domiciled in Germany. This includes, without limitation, the legal concepts and terms contained in these GTCs, the English translations of which may not be identical with the original German terms in their respective legal understanding. The United Nations Convention on Contracts for the International Sale of Goods (CISG) does not apply.
- (4) The place of performance is Eschborn/Taunus in case of delivery by the Drives & Motion Division, respectively Allershausen in case of delivery by the Robotics Division.
- (5) The exclusive place of jurisdiction is Frankfurt am Main. However, we are entitled to sue the customer in any other legal jurisdiction.
- (6) There are no oral side agreements to this contract. Any amendments and supplements to these GTCs must be made in writing to be effective. This shall also apply to any amendment of this written form requirement.
- (7) Should a provision of these GTCs be invalid, this does not affect the validity of the remaining provisions. An invalid provision of these GTCs shall be deemed to be replaced by such valid provision that comes closest to the intended commercial purpose of the invalid provision.

Notizen



Drives Motion Controls Worldwide

...at Home in About 60 Countries



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