

System Summary

for System 200V and System SLIO



System 200V

200V is a modular control system for centralized and decentralized applications. With a variety of communication and fieldbus modules available, it can be used for complex system topologies and is in use in thousands of applications worldwide.

- Innovative data saving concept
- Comprehensive communication capability and many protocols
- High flexibility in use & application

CPUs STEP7 programmable, standard

Art.-Nr.	Description	SAP-No.
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	100-220-964
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	100-220-965
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	100-220-962
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	100-220-963
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	100-220-975
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	100-220-976

CPU STEP7 programmable, NET-CPU

Art.-Nr.	Description	SAP-No.
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	100-220-971
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	100-220-970
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	100-220-981
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	100-225-197
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	100-220-980
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	100-225-198

CPU's STEP7 programmable, PtP

Art.-Nr.	Description	SAP-No.
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	100-220-973
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	100-220-974
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	100-220-982
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	100-220-984

CPU's STEP7 programmable, DP-Master

Art.-Nr.	Description	SAP-No.
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	100-220-969
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	100-220-979

CPU STEP7 programmable, DP-Slave

Art.-Nr.	Description	SAP-No.
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	100-220-967
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	100-220-978

CPU STEP7 programmable, CAN-Master

Art.-Nr.	Description	SAP-No.
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	100-220-977

Clamp modules

Art.-Nr.	Description	SAP-No.
201-1AA00	CM 201 - Double clamps module 2x 11 clamps, grey/grey Passive	100-220-755
201-1AA10	CM 201 - Double clamps module 2x 11 clamps, green-yellow/gray Passive	100-220-754
201-1AA20	CM 201 - Double clamps module 2x 11 clamps, red/blue Passive	100-220-756
201-1AA40	CM 201 - 4-tier clamps module 2x 5 clamps, grey/grey 2x 6 clamps, red/blue Passive	100-220-591

Power supply

Art.-Nr.	Description	SAP-No.
207-1BA00	PS 207 - Power supply AC 100...240 V without manual intervention DC 24 V 2 A 48 W	100-221-024
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	100-221-025

Digital Input modules

Art.-Nr.	Description	SAP-No.
221-1BF00	SM 221 - Digital input 8x DI DC 24 V	100-220-801
221-1BF10	SM 221 - Digital input 8x DI DC 24 V Delay time 0.2 ms	100-220-798
221-1BF21	SM 221 - Digital input 8x DI DC 24 V Delay time 0.2 ms Alarm	100-220-797
221-1BF30	SM 221 - Digital input ECO 8x DI DC 24 V	100-220-758
221-1BF50	SM 221 - Digital input 8x DI DC 24 V NPN	100-220-796
221-1BH00	SM 221 - Digital input 16x DI DC 24 V For conversion module UB4x With LED status display	100-220-771
221-1BH10	SM 221 - Digital input 16x DI DC 24 V	100-220-772

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	100-220-765
221-1BH30	SM 221 - Digital input ECO 16x DI DC 24 V	100-220-757
221-1BH50	SM 221 - Digital input 16x DI DC 24 V NPN For conversion module UB4x With LED status display	100-220-767
221-1BH51	SM 221 - Digital input 16x DI DC 24 V NPN	100-220-766
221-2BL10	SM 221 - Digital input 32x DI DC 24 V	100-220-782
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	100-220-765

Digital Output modules

Art.-Nr.	Description	SAP-No.
222-1BF00	SM 222 - Digital output 8x DO DC 24 V 1 A	100-220-843
222-1BF10	SM 222 - Digital output 8x DO DC 24 V 2 A	100-220-844
222-1BF20	SM 222 - Digital output 8 outputs Isolation in 4 groups per 2 outputs Output current 2 A	100-220-840
222-1BF30	SM 222 - Digital output ECO 8x DO DC 24 V 0.5 A	100-220-806

222-1BH00	SM 222 - Digital output 16x DO DC 24 V 0.5 A For conversion module UB4x With LED status display	100-220-808
222-1BH10	SM 222 - Digital output 16x DO DC 24 V 1 A Total current up to 10 A	100-220-816
222-1BH20	SM 222 - Digital output 16x DO DC 24 V 2 A Total current up to 10 A	100-220-817
222-1BH30	SM 222 - Digital output ECO 16x DO DC 24 V 0.5 A	100-220-805
222-1BH50	SM 222 - Digital output 16x DO DC 24 V 0.5 A NPN For conversion module UB4x	100-220-814
222-1BH51	SM 222 - Digital output 16x DO DC 24 V 0.5 A NPN	100-220-815
222-1FF00	SM 222 - Digital output 8x DO DC 400 V AC 230 V 0.5 A Solid-state relay	100-220-847
222-1HD10	SM 222 - Digital output 4x DO DC 30 V AC 230 V 5 A Isolated per channel Relay	100-220-829
222-1HF00	SM 222 - Digital output 8x DO DC 30 V AC 230 V 5 A Relay	100-220-846

222-2BL10	SM 222 - Digital output 32x DO DC 24 V 1 A 2 groups each 16x DO Total current per group 10 A	100-220-827
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Digital In-/Output modules

Art.-Nr.	Description	SAP-No.
223-1BF00	SM 223 - Digital in-/output 8x DIO DC 24 V DO 1 A Diagnostic function	100-220-762
223-2BL10	SM 223 - Digital in-/output 16x DI 16x DO DC 24 V 1 A Total current up to 10 A	100-220-759

Analog Input modules

Art.-Nr.	Description	SAP-No.
231-1BD30	SM 231 - Analog input ECO 4x AI 12 Bit Voltage +/-10 V Parameterizable	100-220-598
231-1BD40	SM 231 - Analog input ECO 4x AI 12 Bit Current 4...20 mA, +/-20 mA Parameterizable	100-220-597
231-1BD53	SM 231 - Analog input 4x AI 16 Bit Voltage, current Resistance thermometer, thermocouple Parameterizable	100-220-613
231-1BD60	SM 231 - Analog input 4x AI 12 Bit Current 4...20 mA Potential separated per channel	100-220-618

231-1BD70	SM 231 - Analog input 4x AI 12 Bit Voltage +/- 10 V Potential separated per channel	100-220-614
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	100-220-628
231-1FD00	SM 231 - Analog input FAST 4x fast AI 16 Bit Voltage +/- 10 V, +/- 4, +/- 400 mV Current +/- 20 mA, 4...20 mA Parameterizable 0,8 ms cycle time	100-220-599

Analog Output modules

Art.-Nr.	Description	SAP-No.
232-1BD30	SM 232 - Analog output ECO 4x AO 12 Bit Voltage 0...10 V, +/- 10 V Parameterizable	100-220-596
232-1BD40	SM 232 - Analog output ECO 4x AO 12 Bit Current 0(4)...20 mA Parameterizable	100-220-630
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	100-220-637

Analog In-/Output modules

Art.-Nr.	Description	SAP-No.
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	100-220-592
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	100-220-593

Combi-modules

Art.-Nr.	Description	SAP-No.
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	100-220-774

RS232/422/485 and other CPs

Art.-Nr.	Description	SAP-No.
240-1BA20	CP 240 - Communication processor RS232 interface	100-220-689
240-1CA20	CP 240 - Communication processor RS485 interface	100-220-691
240-1CA21	CP 240 - Communication processor RS422/485 interface	100-220-690
240-1FA20	CP 240 - Communication processor M-Bus master Isolated Up to 6 slaves	100-220-688

Fieldbus-Master-Module

Art.-Nr.	Description	SAP-No.
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	100-220-888
208-1DP01	IM 208DP - PROFIBUS-DP master RS485 12 Mbit/s Up to 125 DP slaves	100-220-889

Counter modules

Art.-Nr.	Description	SAP-No.
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	100-220-868

SSI module

Art.-Nr.	Description	SAP-No.
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	100-220-869

Positioning module

Art.-Nr.	Description	SAP-No.
253-1BA00	FM 253 - Positioning module For 1-axis drive with stepper 3x DI, DC 24 V Inputs for connecting end switches 2x DO, 24 V Isolated	100-220-870

Fieldbus-Slave-Module without I/Os

Art.-Nr.	Description	SAP-No.
253-1CA01	IM 253CAN - CANopen slave DC 24 V 1 Mbit/s Up to 32 modules 10 Rx and 10 Tx PDO 2x SDOs PDO linking, PDO mapping	100-220-891
253-1DP01	IM 253DP - PROFIBUS-DP slave DC 24 V 12 Mbit/s Configuration via GSD-file of VIPA Up to 32 modules (16 analog) 244 Byte input and 244 Byte output data	100-220-894
253-1DP11	IM 253DP - Profibus-DP slave DC 24V FO-Interface (POF, HCS) 12Mbit/s Cofiguration via GSD-file of VIPA Up to 32 peripheral modules (16 analog) 244 Byte input and 244 Byte output data	100-220-895
253-1DP31	IM 253DP - PROFIBUS-DP slave ECO DC 24 V 12 Mbit/s Configuration via GSD file of VIPA Up to 8 peripheral modules 244 Byte input- and 244 Byte output data	100-220-858
253-1NE00	IM 253NET - Ethernet slave DC 24 V 10/100 Mbit/s Ethernet coupler with Modbus/TCP and Siemens S5 Header Protocol For up to 32 peripheral modules Max. 256 Byte I/O data RJ45 100BaseTX, 10BaseT	100-220-897

Accessoires

Art.-Nr.	Description	SAP-No.
290-0AA10	Bus connector 1-tier	100-220-651
290-0AA20	Bus connector 2-tier	100-220-652
290-0AA40	Bus connector 4-tier	100-220-653

290-0AA80	Bus connector 8-tier	100-220-654
290-1AF30	35 mm profile rail Length: 530 mm	100-221-013
292-1AF00	Front connector 10 pin Cage clamps	100-220-577
292-1AH00	Front connector 18 pin Cage clamps	100-220-878
953-0KX10	MMC - MultiMediaCard MMC for VIPA CPUs 11x, 21x, 24x, 31x and 51x MMC for 208-1DP01 and CC 03	10110633

SLIO - Decentralized I/O System

SLIO is a modular and extremely compact I/O system. It can be used universally with any of our established systems and also and also with almost all systems of other manufacturers.

- Powerful backplane bus
- Modularly expandable up to 64 modules per fieldbus slave
- Integrated power module
- Comprehensive communication capability and many protocols
- PROFISafe and Fail Safety over EtherCAT

Fieldbus-Slave-Modules

Art.-Nr.	Description	SAP-No.
053-1PN01	IM 053PN - PROFINET-IO slave Integrated 2-port switch Up to 64 peripheral modules Transfer rate 100Mbit/s full-duplex Supports MRP slave as MRP client, FMM (Free Module Mapping), Easy Maintenance Supports shared device with up to 3 connections Supports IRT (Isochronous Real Time communication) Supports multiple and single write (acyclic communication) Integrated Web server Integrated DC 24V power supply for power and electronic section supply of the periphery modules Status LEDs	10105571
053-1EC01	IM 053EC - EtherCAT slave 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	10106201

053-1IP01	<p>IM 053IP - EtherNet/IP slave 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</p>	10108144
053-1ML00	<p>IM 053ML - MECHATROLINK MECHATROLINK according to IEC 61158, IEC 61784 Up to 64 peripheral modules Supports standard I/O profile (16byte and 64byte mode) Multi slave node with max. 9 stations Max. 492byte input and 492byte output data Integrated DC 24V power supply for power and electronic section supply of the periphery modules Integrated Web server Configuration is done via software tool respectively Web server</p>	10104960
053-1ML40	<p>IM 053ML - MECHATROLINK MECHATROLINK according to IEC 61158, IEC 61784 Up to 64 peripheral modules Supports standard I/O profile (16byte and 64byte mode) Multi slave node with max. 15 stations Max. 1024byte input and 1024byte 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</p>	10114992
053-1MT01	<p>IM 053MT - Modbus/TCP slave 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</p>	10107862
053-1DP00	<p>IM 053DP - PROFIBUS-DP slave DP-V0, DP-V1 244 byte input and 244 byte output data 244 byte parameter data Various diagnostics functions Integrated DC 24V power supply for power and electronic section supply of the periphery modules Status LEDs Up to 64 peripheral modules</p>	100-220-881

053-1CA00	IM 053CAN - CANopen slave 16x Rx and 16x Tx PDOs 2x SDOs PDO-Linking PDO-Mapping: fix Up to 64 peripheral modules	100-220-879
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Digital Input modules

Art.-Nr.	Description	SAP-No.
021-1BB00	SM 021 - Digital input 2x DI DC 24 V	100-220-778
021-1BB10	SM 021 - Digital input 2x DI (fast) DC 24 V Input filter time delay parameterizable 2 μ s...4 ms	100-220-780
021-1BD00	SM 021 - Digital input 4x DI DC 24 V	100-220-803
021-1BD10	SM 021 - Digital input 4x DI (fast) DC 24 V Input filter time delay parameterizable 2 μ s...4 ms	100-220-787
021-1BD40	SM 021 - Digital input 4x DI DC 24 V Connect 2/3 wire	100-220-786
021-1BD50	SM 021 - Digital input 4x DI DC 24 V NPN	100-220-785
021-1BD70	SM 021 - Digital input 4x DI DC 24 V Input filter time delay parameterizable 2 μ s...3 ms ETS function with μ sec time stamp	100-220-789
021-1BD80	SM 021 - Digital input 4x DI DC 24 V Input filter time delay parameterizable 2 μ s...3 ms ETS function with μ sec time stamp NPN	10115053
021-1BF00	SM 021 - Digital input 8x DI DC 24 V	100-220-800

021-1BF01	SM 021 - Digital input 8x DI DC 24 V 0.5 ms time delay	100-220-790
021-1BF50	SM 021 - Digital input 8x DI DC 24 V NPN	100-220-795
021-1BF51	SM 021 - Digital input 8x DI DC 24 V 0.5 ms time delay NPN	10115051
021-1BH00	SM 021 - Digital input 16x DI DC 24 V	10109488
021-1DF00	SM 021 - Digital input 8x DI DC 24 V Diagnostic of wiring errors	100-220-799
021-1DF50	SM 021 - Digital input 8x DI DC 24 V Diagnostic of wiring errors NPN	10115052

Digital Input modules - Safety

Art.-Nr.	Description	SAP-No.
021-1SD00	SM 021 - Digital input 4x SDI DC 24 V Safety / PROFIsafe	100-220-788
021-1SD10	SM 021 - Digital input 4x SDI DC 24 V Safety / FSoE	10108222

Digital Output modules

Art.-Nr.	Description	SAP-No.
022-1BB00	SM 022 - Digital output 2x DO DC 24 V 0.5 A	100-220-821

022-1BB90	SM 022 - Digital output 2x DO DC 24 V 0.5 A PWM till 40 kHz	100-220-823
022-1BD00	SM 022 - Digital output 4x DO DC 24 V 0.5 A	100-220-832
022-1BD20	SM 022 - Digital output 4x DO DC 24 V 2 A	100-220-833
022-1BD50	SM 022 - Digital output 4x DO DC 24 V 0.5 A NPN	100-220-831
022-1BD70	SM 022 - Digital output 4x DO DC 24 V 0.5 A ETS function – control the exact μ s by using time stamp	100-220-836
022-1BF00	SM 022 - Digital output 8x DO DC 24 V 0.5 A	100-220-845
022-1BF50	SM 022 - Digital output 8x DO DC 24 V 0.5 A NPN	100-220-842
022-1BH00	SM 022 - Digital output 16x DO DC 24 V 0.5 A	10110555
022-1HB10	SM 022 - Digital output 2x DO DC 30 V AC 230 V 3 A Potential separated per channel Relay	100-220-824
022-1HD10	SM 022 - Digital output 4x DO DC 30 V AC 230 V 1.8 A Potential separated per group (2 channel) Relay	100-220-834

022-1DF00	SM 022 - Digital output 8x DO DC 24 V 0.5 A Diagnostic of wiring errors	100-220-837
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Digital Output modules - Safety

Art.-Nr.	Description	SAP-No.
022-1SD00	SM 022 - Digital output 4x SDO DC 24 V 0.5 A Safety / PROFIsafe	100-220-835
022-1SD10	SM 022 - Digital output 4x SDO DC 24 V 0.5 A Safety / FSoE	10108223

Analog Input modules

Art.-Nr.	Description	SAP-No.
031-1BB10	SM 031 - Analog input 2x AI 12 Bit Current 0(4)...20 mA 2 wire Potential separated per channel	100-220-604
031-1BB30	SM 031 - Analog input 2x AI 12 Bit Voltage 0...10 V	100-220-602
031-1BB40	SM 031 - Analog input 2x AI 12 Bit Current 0(4)...20 mA	100-220-601
031-1BB60	SM 031 - Analog input 2x AI 12 Bit Current 0(4)...20 mA 2 wire	100-220-605
031-1BB70	SM 031 - Analog input 2x AI 12 Bit Voltage -10 V...+10 V	100-220-603

031-1BB90	SM 031 - Analog input 2x AI 16 Bit Voltage -80 mV...+80 mV TC type J, K, N, R, S, T, B, C, E, L	100-220-609
031-1BD30	SM 031 - Analog input 4x AI 12 Bit Voltage 0...10 V	100-220-616
031-1BD40	SM 031 - Analog input 4x AI 12 Bit Current 0(4)...20 mA	100-220-615
031-1BD70	SM 031 - Analog input 4x AI 12 Bit Voltage -10 V...+10 V	100-220-617
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	100-220-623
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	100-220-595
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	100-220-594
031-1CB30	SM 031 - Analog input 2x AI 16 Bit Voltage 0...10 V	100-220-606
031-1CB40	SM 031 - Analog input 2x AI 16 Bit Current 0(4)...20 mA	100-220-607
031-1CB70	SM 031 - Analog input 2x AI 16 Bit Voltage -10 V...+10 V	100-220-608

031-1CD30	SM 031 - Analog input 4x AI 16 Bit Voltage 0...10 V	100-220-621
031-1CD35	SM 031 - Analog input 4x AI 16 Bit Voltage 0...10 V Reduced parameter bytes	100-220-622
031-1CD40	SM 031 - Analog input 4x AI 16 Bit Current 0(4)...20 mA	100-220-619
031-1CD45	SM 031 - Analog input 4x AI 16 Bit Current 0(4)...20 mA Reduced parameter bytes	100-220-620
031-1CD70	SM 031 - Analog input 4x AI 16 Bit Voltage -10 V...+10 V	100-220-625
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	100-220-610
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	100-220-624
031-1CA20	SM 031 - Analog input Direct connection of a resistor full bridge (DMS) or load cell 4- or 6-wire connection 16 (24) Bit resolution Auto self calibration zero point and final value Absolute exactness radical error $\pm 0,1\%$ ($\pm 0,01\%$) Onboard power supply 2V5, 5 V, 7V5, 10 V und 12 V	100-220-804

031-1PA10	Energy measurement module AI1x 3Ph 230/400V 1/5A Remanent storage of the energy values diagnostic function Resolution measurement 24 Bit 3-phase and N-conductor Electrical efficiency elektrical work Harmonic harmonics Phase delay cos Frequency	10108024
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Analog Output moduels

Art.-Nr.	Description	SAP-No.
032-1BB30	SM 032 - Analog output 2x AO 12 Bit Voltage 0...10 V	100-220-632
032-1BB40	SM 032 - Analog output 2x AO 12 Bit Current 0(4)...20 mA	100-220-631
032-1BB70	SM 032 - Analog output 2x AO 12 Bit Voltage -10 V...+10 V	100-220-633
032-1BD30	SM 032 - Analog output 4x AO 12 Bit Voltage 0...10 V	100-220-640
032-1BD40	SM 032 - Analog output 4x AO 12 Bit Current 0(4)...20 mA	100-220-639
032-1BD70	SM 032 - Analog output 4x AO 12 Bit Voltage -10 V...+10 V	100-220-641
032-1CB30	SM 032 - Analog output 2x AO 16 Bit Voltage 0...10 V	100-220-635
032-1CB40	SM 032 - Analog output 2x AO 16 Bit Current 0(4)...20 mA	100-220-634

032-1CB70	SM 032 - Analog output 2x AO 16 Bit Voltage -10 V...+10 V	100-220-636
032-1CD30	SM 032 - Analog output 4x AO 16 Bit Voltage 0...10 V	100-220-643
032-1CD40	SM 032 - Analog output 4x AO 16 Bit Current 0(4)...20 mA	100-220-642
032-1CD70	SM 032 - Analog output 4x AO 16 Bit Voltage -10 V...+10 V	100-220-644

RS232/422/485 and others CPs

Art.-Nr.	Description	SAP-No.
040-1BA00	CP 040 - Communication processor RS232 interface Protocols ASCII, STX/ETX, 3964(R) and Modbus RTU (master, slave)	100-221-030
040-1CA00	CP 040 - Communication processor RS422/485 interface Protocols ASCII, STX/ETX, 3964(R) and Modbus RTU (master, slave)	100-221-031
042-1IO00	CP 042 Communication processor - IO-Link Master IO-Link master, 4 channels IO-Link ports galvanically isolated from the backplane bus Permanent memory for parameter Channels be run as standard-I/O (SIO) or in IO-Link mode Status-LEDs for SIO-mode, IO-Link mode and for error indication Length of process data for input and output of 64 bytes each IO-Link Manager Software - license free (Download)	10112310

Positioning module

Art.-Nr.	Description	SAP-No.
054-1BA00	FM054 – Stepper motor module 1-channel with feedback 4 inputs/outputs DC 24 V, which can be used as encoder inputs Power control frequency 32 kHz Step pattern 64 times microstepping	100-220-867

054-2BA10	FM054 – Stepper motor module DC 24...48 V, 5 A Closed Loop (field-oriented control) Pseudo Closed Loop (readjustment) Open Loop Step pattern, 64-fold micro steps PWM frequency 32 kHz Encoder inputs 5V, A+, A-, B+, B-, Z+, Z- 3x DI, DC 24 V (user programmable) 1x DO, DC 24 V (user programmable)	10114065
054-1CB00	FM054 - DC motor module 2-channel with feedback 4 inputs/outputs DC 24 V, which can be used as encoder inputs PWM clock frequency 32 kHz	100-220-865
054-1DA00	FM054 - Pulse Train Output Module 1-channel RS422 with feedback 4 configurable in-/outputs I/O1... I/O4 Operating modes: CW/CCW, PLS/DIR, ENC/SIM	100-220-866

SSI modules

Art.-Nr.	Description	SAP-No.
050-1BS00	FM 050S - SSI module SSI - Encoder, master or slave mode Encoder frequency 125 kHz...2 MHz μ s time stamp for encoder value Comparison function Alarm function Diagnostic function	100-221-054

Counter modules

Art.-Nr.	Description	SAP-No.
050-1BA00	FM 050 - Counter module 1x Counter 32 Bit (AB), DC 24 V Up to 400 kHz 1x DO, DC 24 V 0,5 A	100-220-578
050-1BA10	FM 050 - Counter module 1x Counter 32 Bit (AB), DC 5 V Up to 2 MHz (difference signal)	100-220-579
050-1BB00	FM 050 - Counter module 2x Counter 32 Bit (AB), DC 24 V Up to 400 kHz	100-220-584
050-1BB30	FM 050 - Counter module Eco 2x Counter 32 Bit (AB) DC 24 V Up to 400 kHz	100-220-585

050-1BB40	FM 050 - Frequency measurement Frequency measurement 2x Counter 24 Bit (AB), DC 24 V Up to 600 kHz	100-220-583
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Line connections / Line extensions

Art.-Nr.	Description	SAP-No.
060-1AA00	IM060 Line Extension Extension to another line Connector: 1x RJ45 plug connector Module width 25,8 mm Connection: CAT6 cable Maximum length: 2 m Module is always installed at the last place in the line Module IM060 and IM061 always form a pair	100-220-886
060-1AA01	IM060 Line Extension Line extension master for extension to another line Module is always installed at the last position in the line Connector: 1x RJ45 plug connector Module width 25.8 mm Cable length: up to 10 m Connection: via cable 950-OKD30 (2 m) Alternative connection: ethernet cable S/STP CAT6a or S/FTP CAT6a Module 060-1AA01 master and 061-1BA01 slave must always be used in pairs	10115007
061-1BA00	IM061 Line Extension Extension up to 8 additional lines (up to 64 modules) Connector: 1x RJ45 plug connector Module width 48.5 mm Connection: CAT6 cable Maximum length: 2 m Module is always installed at the first place in the line Module IM060 and IM061 always form a pair	100-220-887
061-1BA01	IM061 Line Extension Line extension master for extension to another line Module is always installed at the first position in the next line Connector: 1x RJ45 plug connector Module width 25.8 mm Cable length: up to 10 m Connection: via cable 950-OKD30 (2 m) Alternative connection: ethernet cable S/STP CAT6a or S/FTP CAT6a Module 060-1AA01 master and 061-1BA01 slave must always be used in pairs	10115008

950-0KD30	SLIO line extension cable Length: 2 m Connector: 2x RJ45 Plug connector Required to connect the modules IM060 and IM061	100-221-037
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Clamp modules

Art.-Nr.	Description	SAP-No.
001-1BA00	CM 001 - Potential distributor module 8x DC 24 V clamps	10110620
001-1BA10	CM 001 - Potential distributor module 8x DC 0 V clamps	10110621
001-1BA20	CM 001 - Potential distributor module 4x DC 24 V clamps 4x DC 0 V clamps	10110622

Power modules

Art.-Nr.	Description	SAP-No.
007-0AA00	PM 007 - Power module Power supply DC 24 V (Only electronic module as a spare part for PLC and field bus module)	100-220-988
007-1AB00	PM 007 - Power module Output supply Power supply DC 24 V 10 A Reverse polarity protection Overvoltage protection	100-220-986
007-1AB10	PM 007 - Power module Output supply Power supply DC 24 V, 4 A Power supply DC 24 V for bus supply 5 V, 2 A Reverse polarity protection Overvoltage protection Module supply	100-220-987

Accessoires

Art.-Nr.	Description	SAP-No.
290-1AF30	35 mm profile rail Length: 530 mm	100-221-013
000-0AA00	SLIO bus cover 1 piece	10110617

000-0AB00	SLIO shield bus carrier 10 pieces	10110618
000-0AC00	SLIO shield bus carrier 100 pieces For secure coding of SLIO modules	100-221-034

SLIO - PLC System Powered by SPEED 7

SLIO is a modular and extremely compact control system. It can be universally combined and deployed with each of our established systems and nearly all those of other producers.

- Individually expandable with up to 64 I/O modules per line
- Expandable memory
- High-performance backplane bus
- Extremely fast cycle times
- Proven SPEED7 technology
- PROFINET Controller, EtherCat Master and PROFIBUS Master

CPUs STEP7 programmable, Standard/PROFINET

Art.-Nr.	Description	SAP-No.
019-CEFPM00	CPU 019PN Powered by SPEED7 Work memory [KB]: 6.144 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 Integrated OPC UA server and Web server SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC Manager and TIA Portal	10107916
017-CEFPRO0	CPU 017PN 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 Integrated OPC UA server and 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	100-221-371

015-CEFPR01	<p>CPU 015PN 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 Integrated OPC UA server and 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</p>	100-221-370
014-CEFOR01	<p>CPU 014 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 Integrated OPC UA server and 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</p>	100-221-369

CPUs STEP7 programmable, C-Klasse

Art.-Nr.	Description	SAP-No.
013-CCFOR00	<p>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 Integrated OPC UA server and Web server SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC Manager and TIA Portal</p>	100-220-703

CPU STEP7 programmable, EtherCAT

Art.-Nr.	Description	SAP-No.
015-CEFNR00	<p>CPU 015N Powered by SPEED7 SD card slot with locking, up to 64 expansion modules, configurable with SPEED7 Studio, SIMATIC manager Work memory [KB]: 256...512 Integrated Ethernet CP EtherCAT Controller Interface [1x RJ45]: EtherCAT-Master Interface [1x RJ45]: active Ethernet CP, ModbusTCP master/slave, openCommunication Interface [2x RJ45]: active 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 Integrated OPC UA server and 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</p>	100-225-195

FeatureSets - PROFIBUS Master

Art.-Nr.	Description	SAP-No.
955-C000M00	VIPASetCard 001 (VSC) PROFIBUS master	100-221-094
955-C000M20	VIPASetCard 004 (VSC) 64 KB PROFIBUS master	100-221-089
955-C000M30	VIPASetCard 007 (VSC) 128 KB PROFIBUS master	100-221-085
955-C000M40	VIPASetCard 010 (VSC) 256 KB PROFIBUS master	100-221-087
955-C000M50	VIPASetCard 013 (VSC) 512 KB PROFIBUS master	100-221-397
955-C000M60	VIPASetCard 015 (VSC) 1 MB PROFIBUS master	100-221-398
955-C000M70	VIPASetCard 017 (VSC) 1,5 MB PROFIBUS master	100-221-399

Art.-Nr.	Description	SAP-No.
955-C000S00	VIPASetCard 002 (VSC) PROFIBUS slave	100-221-095
955-C000S20	VIPASetCard 005 (VSC) 64 KB PROFIBUS slave	100-221-090
955-C000S30	VIPASetCard 008 (VSC) 128 KB PROFIBUS slave	100-221-086
955-C000S40	VIPASetCard 011 (VSC) 256 KB PROFIBUS slave	100-221-088

FeatureSets - Memory extensions

Art.-Nr.	Description	SAP-No.
955-C000020	VIPASetCard 003 (VSC) 64 KB	100-221-093
955-C000030	VIPASetCard 006 (VSC) 128 KB	100-221-091
955-C000040	VIPASetCard 009 (VSC) 256 KB	100-221-092
955-C000050	VIPASetCard 012 (VSC) 512 KB	100-221-392
955-C000060	VIPASetCard 014 (VSC) 1 MB	100-221-393
955-C000070	VIPASetCard 016 (VSC) 1,5 MB	100-221-394

FeatureSets for other components

Art.-Nr.	Description	SAP-No.
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	100-221-084

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