SIEMENS

SIMATIC

Process Control System PCS 7 Released modules (V9.1 SP2)

List Manual

valid for PCS 7 as of V9.1 SP2 UC02

V9.1 SP2
A5E50382290-AE

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Process Control System PCS 7 Released modules (V9.1 SP2)

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Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠ DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

⚠ WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

⚠ CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

⚠ WARNING

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Security information

1

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit
https://www.siemens.com/industrialsecurity.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under
https://www.siemens.com/cert.

Industrial Security

2

This product is a part of the SIMATIC PCS 7 and integrated into the overall plant security concept. Siemens strongly recommends setting up, operating, maintaining, and decommissioning the plant environment according to the SIMATIC PCS 7 Compendium Part F – Industrial Security. For more information, refer to Technical documentation SIMATIC PCS 7 (https://support.industry.siemens.com/cs/ww/en/view/109801081).

Preface

3

Purpose of the documentation

This documentation provides you with a general overview of the modules supported by PCS 7.

See the corresponding product manuals for the approved combinations of modules and components.

ET 200SP HA

4

4.1 AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
AI-DI 16/DQ 16x24VDC HART HA	6DL1133-6EW00-0PH1	Input/output module configured channel-by-channel AI-DI/DQ	W P	O	C	
AI 16xI 2-wire HA	6DL1134-6GH00-0PH1	Analog input module 16 AI; 0/4 ... 20 mA, 0 ... 10 mA; 16-bit	W P	O		
AI 16xI 2-wire HART HA	6DL1134-6TH00-0PH1	Analog input module 16 AI; 0/4 ... 20 mA, 0 ... 10 mA; 16-bit; with HART	W P	O	C	
AI 16xTC/8xRTD 2-/3-/4-wire HA	6DL1134-6JH00-0PH1	Analog input module 16 AI TC, 8 AI RTD; 16-bit	W P	O	C	
AI 8xU/I/TC/4xRTD 2-/3-/4-wire HA	6DL1134-6AF00-0PH1	Analog input module 8 AI U/I/TC, 4 AI RTD; 16-bit	W P	O		
AI 4xI 2-/4-wire HART ISOL HA	6DL1134-6UD00-0PK0	Analog input module 4 AQ; channel diagnostics, 16-bit, +/-0.1%; with HART	W P	O	C	
Ex-AI 4xTC/2xRTD 2-/3-/4-wire	6DL1134-6JD00-0HX1	Analog input module 4 AI TC, 2 AI RTD; 16-bit	W P	O		
Ex-AI 2xI 2-wire HART	6DL1134-6TB00-0HX1	Analog input module 2 AI; 0 ... 20 mA; 4 mA ... 20 mA, 15-bit; with HART	W P	O		
F-AI 8xI 2-/4-wire HART HA	6DL1136-6AA00-0PH1	Analog input module 8 F-AI; 16-bit; 2-/4-wire; safety-related	W P	M	C	

4.2 AQ

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
AQ 8xI HART HA	6DL1135-6TF00-0PH1	Analog output module 8 AQ; 0/4 ... 20 mA, 0 ... 10 mA; 16-bit; with HART	W P	O	C	
AQ 4xI HART ISOL HA	6DL1135-6UD00-0PK0	Analog output module 4 AQ; channel diagnostics, 16-bit, +/-0.1%; with HART	W P	O	C	
Ex-AQ 2xI HART	6DL1135-6TB00-0HX1	Analog output module 2 AQ; 0 ... 20 mA, 15-bit; 4 mA ... 20 mA, 16-bit; with HART	W P	O		

4.3 DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DI 32x24VDC HA	6DL1131-6BL00-0PH1	Digital input module 32 DI; 24 V DC	W P	O		
DI 16x24VDC HA	6DL1131-6BH00-0PH1	Digital input module 16 DI; 24 V DC	W P	O	C	
DI 16xNAMUR HA	6DL1131-6TH00-0PH1	Digital input module 16 DI; 24 V DC; NAMUR	W P	O	C	
DI 8x230VAC HA	6DL1131-6GF00-0PK0	Digital input module 8 DI; electrically isolated; 230 V AC	W P	O		
DI 8x24..125VDC HA	6DL1131-6DF00-0PK0	Digital input module 8 DI; 24 ... 125 V DC	W P	O		
Ex-DI 4xNAMUR	6DL1131-6TD00-0HX1	Digital input module 4 DI; NAMUR	W P	O		
F-DI 16x24VDC HA	6DL1136-6BA00-0PH1	Digital input module 16 F-DI; 24 V DC; safety-related	W P	M	C	

4.4 DQ

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DQ 32x24VDC/0.5A HA	6DL1132-6BL00-0PH1	Digital output module 32 DQ; 24 V DC	W P	O		
DQ 16x24VDC/0.5A HA	6DL1132-6BH00-0PH1	Digital output module 16 DQ; 24 V DC	W P	O	C	
RQ 4x120VDC-230VAC/5A CO HA	6DL1132-6HD50-0PK0	Digital output module 4 DQ; electrically isolated; 24 ... 120 V DC, 24 ... 230 V AC	W P	O		
Ex-DQ 2x17.4VDC/27mA	6DL1132-6CB00-0HX1	Digital output module 2 DQ;	W P	O		
Ex-DQ 2x23.1VDC/20mA	6DL1132-6EB00-0HX1	Digital output module 2 DQ;	W P	O		
F-DQ 10x24VDC/2A PP HA	6DL1136-6DA00-0PH1	Digital output module 10 F-DQ; 24 V DC; safety-related	W P	M	C	

4.5 IM

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200SP HA-IM155-6 PN	6DL1155-6AU00-0PM0	PROFINET Interface Module IM155-6 PN operational with up to 56 I/O modules	W P	S	X	

4.6 PM

Product name	Article no.	Short description	Properties (Page 141)			
			F	C	R	T
Ex-PM E	6DL1133-6PX00-0HW0	Power Module Ex-PM E 24VDC/0.8A	W P	O		

4.7 TM

Product name	Article no.	Short description	Properties (Page 141)			
			F	C	R	T
Fast Multi IO & Counter	6DL1138-6EA00-0EH1	Input/output module 4xAI, 8xAQ, 4xDI, 6xDI/DQ	W P	O	C	
Vibration protection	6DL1138-6EC00-0EH1	Input/output module 4xAI, 8xAQ, 4xDI, 6xDI/DQ	W P	O		

4.8 BusAdapter

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
BA 2xRJ45	6DL1193-6AR00-0AA0	PROFINET BusAdapter with 2 standard Ethernet sockets (BA 2xRJ45)	W P			
BA 2xFC	6DL1193-6AF00-0AA0	PROFINET BusAdapter with 2 FastConnect Ethernet connections (BA 2xFC)	W P			
BA 2xLC	6DL1193-6AG00-0AA0	PROFINET BusAdapter with 2 glass fiber-optic cable connections (BA 2xLC)	W P			
BA 2xRJ45VD	6GK5991-2VA00-8AA2 [1)]	PROFINET BusAdapter with 2 RJ45VD Ethernet connections	W P			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
BA LC/FC	6DL1193-6AG40-0AA0	PROFINET BusAdapter with 1 LC glass fiber connection and 1 FastConnect Ethernet connection	W P			
BA LC/RJ45	6DL1193-6AG20-0AA0	PROFINET BusAdapter with 1 LC glass fiber connection and 1 RJ45 Ethernet connection	W P			

[1)] Permissible transmission rate: 100 Mbit/s. You can find additional information about the permissible cable lengths in the *SIMATIC documentation: Network components of SIMATIC BusAdapter* (https://support.industry.siemens.com/cs/de/en/view/109759611)

4.9 SP modules

Product name	Article No.	Brief description	Properties (Page 141)			
			F	C	R	T
AI Energy Meter 480VAC ST	6ES7134-6PA20-0BD0	Analog input module AI Energy Meter 480V AC ST; channel diagnostics	W P	M		
CM PtP	6ES7137-6AA00-0BA0	Communications module CM PTP Communications module for serial connection; MODBUS RTU master, slave	W P	M		10/ 22
CM PtP	6ES7137-6AA01-0BA0	Communications module CM PTP Communications module for serial connection; MODBUS RTU master, slave	P	M		

ET 200M

5

5.1 IM

Approved combinations

See the *SIMATIC Distributed I/O Device ET 200M* manual for the approved combinations of Interface Modules and Bus Modules and for the available functions.

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200M- IM 153-1	6ES7 153-1AA02-0XB0	Bus interface for S7-300 SMs, FM 350 to FM 352, FM 355, CP 341, module replacement during operation	W	X		08/ 00
ET 200M- IM 153-1, extended environ- mental conditions	6ES7 153-1AA82-0XB0	Bus interface for S7-300 SMs, extended environmental conditions	W	X		10/ 05
ET 200M- IM 153-1	6ES7 153-1AA03-0XB0	Bus interface for S7-300 SMs, FM 350 to FM 352, FM 355, CP 341, module replacement during operation	W	X		
ET 200M- IM 153-1, extended environ- mental conditions	6ES7 153-1AA83-0XB0	Bus interface for S7-300 SMs, extended environmental conditions	W	X		11/ 03
ET 200M- IM 153-2	6ES7 153-2AA01-0XB0	Bus interface for S7-300 SMs, FMs (except FM 356-4), module replacement during operation	W	X		04/ 00
ET 200M- IM 153-2	6ES7 153-2AA02-0XB0	Bus interface for S7-300 SMs, FMs (except FM 356-4), module replacement during operation	W	X		06/ 04
ET 200M- IM 153-2	6ES7 153-2BA00-0XB0 V3.x	Bus interface for S7-300 SMs, FMs (except FM 356-4), module replacement during operation, extension of process control functions	W	S	X	07/ 06
ET 200M- IM 153-2	6ES7 153-2BA01-0XB0 V4.x	Bus interface for S7-300 SMs, FMs (except FM 356-4), module replacement during operation, extension of process control functions	W	S	X	10/ 09
ET 200M- IM 153-2	6ES7 153-2BA81-0XB0 V4.x	Bus interface for S7-300 SMs, (outdoor), FMs (except FM 356-4), module replacement during operation, extension of process control functions	W	S	X	12/ 10

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200M- IM 153-2	6ES7 153-2BA02-0XB0 V5.x	Bus interface for S7-300 SMs, FMs (except FM 356-4), module replacement during operation, extension of process control functions, up to 12 I/O modules can be operated	W	S	X	01/ 16
ET 200M- IM 153-2	6ES7 153-2BA82-0XB0 V5.x	Bus interface for S7-300 SMs, (outdoor), FMs (except FM 356-4), module replacement during operation, extension of process control functions, up to 12 I/O modules can be operated	W	S	X	10/ 16
ET 200M- IM 153-2 FO	6ES7 153-2AB01-0XB0	Bus interface for S7-300 SMs, with fiber optics, FMs (except FM 356-4), module replacement during operation	W	X		01/ 03
ET 200M- IM 153-2 FO	6ES7 153-2BB00-0XB0 V3.x	Bus interface for S7-300 SMs, with fiber optics, FMs (except FM 356-4), module replacement during operation, extension of process control functions	W	S	X	10/ 06
ET 200M- IM 153-4 PN HF	6ES7 153-4BA00-0XB0 V4.x	Bus interface for S7-300 SMs, with PROFINET connection; supports failsafe and HART module, PN system redundancy	W P			
ET 200M- IM 153-2	6ES7 153-2BA70-0XB0	Bus interface for S7-300 SMs (Outdoor); FMs (except FM 356-4), module replacement during operation, up to 12 I/O modules can be operated	W	S	X	
ET 200M- IM 153-2	6ES7 153-2BA10-0XB0	Bus interface for S7-300 SMs, FMs (except FM356-4), module replacement during operation, extension of process control functions, up to 12 I/O modules can be operated	W	S	X	

5.2 Accessories

Approved combinations

See the "SIMATIC Distributed I/O Device ET 200M" manual for the approved combinations of interface modules and bus modules and for the available functions.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Partition	6ES7 195-1KA00-0XA0	Ex partition for ET 200M				
Bus module	6ES7 195-7HA00-0XA0	Active bus module for ET 200M - IM 153; PS/IM				
Bus module	6ES7 195-7HB00-0XA0	Active bus module for ET 200M - IM 153; 2x 40 mm				

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Bus module	6ES7 195-7HC00-0XA0	Active bus module for ET 200M - IM 153; 1x 80 mm				
BM IM/IM	6ES7 195-7HD00-0XA0	Active bus module for ET 200M - IM 153; IM/IM for redundant IM operation				07/04
BM IM/IM	6ES7 195-7HD10-0XA0	Active bus module for ET 200M - IM 153; IM/IM for redundant IM operation				
F separator bus module	6ES7 195-7HG00-0XA0	F separator bus module for ET 200M				
F separator module	6ES7 195-7KF00-0XA0	F separator module for ET 200M				

Compact field unit

6

6.1 Compact field unit

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SIMATIC CFU DIQ	6ES7655-5PX31-0XX0	CFU DIQ Compact Field Unit • 16 freely configurable channels (digital inputs/outputs) Connection via PROFINET; use up to Ex Zone 2/22 (with aluminum housing); MRP; system redundancy S2	W P	X S		
SIMATIC CFU PA	6ES7655-5PX11-0XX0	CFU PA Compact Field Unit • 8 fieldbus connections for PA field devices • 8 freely configurable channels (digital inputs/outputs) Connection via PROFINET; use up to Ex Zone 2/22 (with aluminum housing); MRP; system redundancy S2	W P	X S		

6.2 BusAdapter

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
BA 2xRJ45	6DL1193-6AR00-0AA0	PROFINET BusAdapter with 2 standard Ethernet sockets (BA 2xRJ45)	W P			
BA 2xFC	6DL1193-6AF00-0AA0	PROFINET BusAdapter with 2 FastConnect Ethernet connections (BA 2xFC)	W P			
BA 2xLC	6DL1193-6AG00-0AA0	PROFINET BusAdapter with 2 glass fiber-optic cable connections (BA 2xLC)	W P			
BA 2xRJ45VD	6GK5991-2VA00-8AA2 [1)]	PROFINET BusAdapter with 2 RJ45VD Ethernet connections	W P			
BA LC/FC	6DL1193-6AG40-0AA0	PROFINET BusAdapter with 1 LC glass fiber connection and 1 FastConnect Ethernet connection	W P			
BA LC/RJ45	6DL1193-6AG20-0AA0	PROFINET BusAdapter with 1 LC glass fiber connection and 1 RJ45 Ethernet connection	W P			

[1)] Permissible transmission rate: 100 Mbit/s. You can find additional information about the permissible cable lengths in the *SIMATIC documentation: Network components of SIMATIC BusAdapter* (https://support.industry.siemens.com/cs/de/en/view/109759611)

ET 200PA SMART+

7

7.1 AI

Product name	Article No.	Brief description	Properties (Page 141)			
			F	C	R	T
AI 16xI 2-wire HART PA	6DL1164-6TH00-0PH1	Analog input module 16 AI; with HART	W P	O	C	
AI 16xTC/8xRTD 2-/3-/4-wire PA	6DL1164-6JH00-0PH1	Analog input module 16 AI TC, 8 AI RTD	W P	O	C	

7.2 AQ

Product name	Article No.	Brief description	Properties (Page 141)			
			F	C	R	T
AQ 8xI HART PA	6DL1165-6TF00-0PH1	Analog output module 8 AQ; with HART	W P	O	C	

7.3 DI

Product name	Article No.	Brief description	Properties (Page 141)			
			F	C	R	T
DI 16x24VDC PA	6DL1161-6BH00-0PH1	Digital input module 16 DI; 24 V DC	W P	O	C	
DI 32x24VDC PA	6DL1161-6BL00-0PH1	Digital input module 32 DI; 24 V DC	W P	O		

7.4 DQ

Product name	Article No.	Brief description	Properties (Page 141)			
			F	C	R	T
DQ 16x24VDC/0.5A PA	6DL1162-6BH00-0PH1	Digital output module 16 DQ; 24 V DC	W P	O	C	
DQ 32x24VDC/0.5A PA	6DL1162-6BL00-0PH1	Digital output module 32 DQ; 24 V DC	W P	O		

ET 200PA SMART

8

8.1 AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
AI8	6ES7 650-8AE60-0AA0	Analog input module 8 AI; 13 Bit	W SM	O		
AI8	6ES7 650-8AE60-1AA0	Analog input module 8 AI; 13 Bit version with protective coating	W SM	O		
AI8 Diag	6ES7 650-8AK60-0AA0	Analog input module 8 AI; 16 Bit 0/4...20mA; with diagnostics	W SM	O	C	
AI8 Diag	6ES7 650-8AK60-1AA0	Analog input module 8 AI; 16 Bit 0/4...20mA; with diagnostics; version with protective coating	W SM	O	C	
AI16 Diag	6ES7 650-8AK70-0AA0	Analog input module 16 AI; 16 Bit 0/4...20mA; with diagnostics	W SM	O	C	
AI16 Diag	6ES7 650-8AK70-1AA0	Analog input module 16 AI; 16 Bit 0/4...20mA; with diagnostics; version with protective coating	W SM	O	C	
AI TC/RTD	6ES7 650-8AR60-0AA0	Analog input module 8 AI TC, 4 AI RTD; 16 Bit; with diagnostics	W SM	O	G	
AI TC/RTD	6ES7 650-8AR60-1AA0	Analog input module 8 AI TC, 4 AI RTD; 16 Bit; with diagnostics; version with protective coating	W SM	O	G	
AI8 HART	6ES7 650-8AT60-0AA0	Analog input module 8 AI HART; 16 Bit; 0/4..20mA; with diagnostics; with HART communication; redundancy	W SM	O	C	
AI8 HART	6ES7 650-8AT60-1AA0	Analog input module 8 AI HART; 16 Bit; 0/4..20mA; with diagnostics; with HART communication; redundancy version with protective coating	W SM	O	C	

8.2 AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
AO8 Diag	6ES7 650-8BK60-0AA0 (as of product version 3)	Analog output module 8 AO; with voltage output; with diagnostics	W SM	O	C	
AO8 Diag	6ES7 650-8BK60-1AA0 (as of product version 3)	Analog output module 8 AO; with voltage output; with diagnostics; variant with protective coating	W SM	O	C	
AO8 Diag	6ES7 650-8BK60-0AA0	Analog output module 8 AO; with diagnostics	W SM	O	C	
AO8 Diag	6ES7 650-8BK60-1AA0	Analog output module 8 AO; with diagnostics; version with protective coating	W SM	O	C	
AO8 HART	6ES7 650-8BT60-0AA0	Analog output module 8 AO HART; 16 Bit 0/4..20mA; with diagnostics; with HART communication; redundancy	W SM	O	C	
AO8 HART	6ES7 650-8BT60-1AA0	Analog output module 8 AO HART; 16 Bit 0/4..20mA; with diagnostics; with HART communication; redundancy version with protective coating	W SM	O	C	

8.3 DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DI32	6ES7 650-8DK80-0AA0	Digital input module 32 DI; DC 24 V	W SM	O	M	
DI32	6ES7 650-8DK80-1AA0	Digital input module 32 DI; DC 24 V; version with protective coating	W SM	O	M	
DI16	6ES7 650-8DK70-0AA0	Digital input module 16 DI; DC 24 V; with diagnostics	W SM	O	C	
DI16	6ES7 650-8DK70-1AA0	Digital input module 16 DI; DC 24 V; with diagnostics; version with protective coating	W SM	O	C	

8.4 DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DO32	6ES7 650-8EK80-0AA0	Digital output module 32 DO; DC 24 V / 0.5 A	W SM	O	M	
DO32	6ES7 650-8EK80-1AA0	Digital output module 32 DO; DC 24 V / 0.5 A; version with protective coating	W SM	O	M	
DO16	6ES7 650-8EK70-0AA0	Digital output module 16 DO; DC 24 V / 0.5 A; with diagnostics	W SM	O	C	
DO16	6ES7 650-8EK70-1AA0	Digital output module 16 DO; DC 24 V / 0.5 A; with diagnostics; version with protective coating	W SM	O	C	

8.5 IM

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
IM 650-8	6ES7 650-8PH00-0AA0	Interface module connection for ET 200PA SMART	W	S	X	
IM 650-8	6ES7 650-8PH00-1AA0	Interface module connection for ET 200PA SMART; version with protective coating	W	S	X	

8.6 Accessories

Accessories

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Bus module PS/IM	6ES7 650-8PA00-0AA0	Backplane bus module for power supply and IM 650-8				
Bus module PS/IM	6ES7 650-8PA00-1AA0	Backplane bus module for power supply and IM 650-8 version with protective coating				
Bus module IM/IM	6ES7 650-8PB00-0AA0	Backplane bus module for 2 x IM 650-8 redundant				
Bus module IM/IM	6ES7 650-8PB00-1AA0	Backplane bus module for 2 x IM 650-8 redundant version with protective coating				

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Bus module	6ES7 650-8PC00-0AA0	Backplane bus module for 2 x SMART electronic module				
Bus module	6ES7 650-8PC00-1AA0	Backplane bus module for 2 x SMART electronic module Version with protective coating				

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9.1 AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 AI 2 WIRE	6ES7 134-5RB00-0AB0	Analog input module 2 AI I; 2-wire measuring transducer; 0..20 mA / 12 bits + sign, 4 ... 20 mA / 12 bits	W			09/06
2 AI 4 WIRE	6ES7 134-5RB50-0AB0	Analog input module 2 AI I; 4-wire measuring transducer; 0..20 mA / 12 bits, 4 ... 20 mA / 12 bits	W			09/06
2 AI TC	6ES7 134-5SB00-0AB0	Analog input module 2 AI TC; 15 bits + sign; standard; thermocouples: E, N, J, K, L, S, R, B, T,U	W			09/06
2 AI RTD	6ES7 134-5SB50-0AB0	Analog input module 2 AI RTD; 15 bits + sign; standard; R: 600 Ohm; RTD: Pt 100, Ni 100:	W			09/06
2 AI 2 WIRE HART	6ES7 134-5TB00-0AB0	Analog input module 2 AI; 4 ... 20 mA, with HART communication for connecting 2-wire measuring transducers	W			09/06
2 AI 4 WIRE HART	6ES7 134-5TB50-0AB0	Analog input module 2 AI; 4 ... 20 mA, with HART communication for connecting 4-wire measuring transducers	W			09/06

9.2 AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 AO 0/4-20mA	6ES7 135-5RB00-0AB0	Analog output module 2 AO; 0..20 mA / 12 bits + sign; 4..20 mA / 12 bits	W			09/06
2 AO HART	6ES7 135-5TB00-0AB0	Analog output module 2 AO; 4..20 mA; with HART communication	W			09/06

9.3 DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
4 DI NAMUR	6ES7 131-5RD00-0AB0	Digital input module 4 DI NAMUR	W			09/06

9.4 DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 DO	6ES7 132-5SB00-0AB0	Digital output module 2 DO; DC 25 V / 25 mA	W			09/06

9.5 IM

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200iS-IM 151-2	6ES7 151-2AA00-0AB0	Interface module for ET 200iS electronic modules for intrinsically safe PROFIBUS DP	W	X		09/06

9.6 PS

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PS	6ES7 138-5EA00-0AA0	Power supply for ET 200iS				09/06

9.7 Terminal module

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
TM-E30S-44iS	6ES7 193-5CB00-0AA0	Terminal module for Ems; 4 rows; screw terminal				09/06
TM-E30C-44iS	6ES7 193-5CB10-0AA0	Terminal module for EMs; 4 rows; spring-loaded terminal				09/06
TM-PS-iS	6ES7 193-5DA00-0AA0	Terminal module for PS				09/06
TM-IM-iS	6ES7 193-5DB00-0AA0	Terminal module for IM 151-2				09/06

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10.1 AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
4 AI I 2WIRE HART	6ES7134-7TD00-0AB0	Analog input module 4 AI; 4 ... 20 mA; with HART communication for connecting 2-wire measuring transducers	W P	O		
4 AI I 4WIRE HART	6ES7134-7TD50-0AB0	Analog input module 4 AI; 4 ... 20 mA; with HART communication for connecting 4-wire measuring transducers	W P	O		
4 AI TC	6ES7134-7SD00-0AB0	Analog input module 4 AI TC	W P	O		
4 AI RTD	6ES7134-7SD50-0AB0	Analog input module 4 AI RTD	W	O		05/ 08
4 AI RTD	6ES7134-7SD51-0AB0	Analog input module 4 AI RTD	W P	O		

10.2 AI-F

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
4F-AI I Ex HART	6ES7138-7FA00-0AB0	Analog input module 4 AI; 0/4 ... 20 mA; safety-related, EX i; with HART communication for connecting 2-wire measuring transducers	W P	M		

10.3 AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
4 AO I HART	6ES7135-7TD00-0AB0	Analog output module 4 AO; 4 ... 20 mA; with HART communication	W P	O		

10.4 DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
8 DI NAMUR	6ES7131-7RF00-0AB0	Digital input module 8 DI NAMUR	W P	O		

10.5 DI-F

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
8F-DI NAMUR Ex	6ES7138-7FN00-0AB0	Digital input module F-DI 8 NAMUR, safety-related, ex i	W P	M		

10.6 DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 DO Relais UC 60 V/2 A	6ES7132-7HB00-0AB0	Digital output module 2 DO relay; UC 60 V / 2 A	W P	O		
4 DO DC23,1V/20mA	6ES7132-7RD00-0AB0	Digital output module 4 DO; DC 23.1 V / 20 mA	W	O		10/ 06
4 DO DC23,1V/20mA Shutdown "H"	6ES7132-7RD01-0AB0	Digital output module 4 DO; DC 23.1 V / 20 mA; shutdown "H"	W P	O		
4 DO DC17,4V/27mA	6ES7132-7RD10-0AB0	Digital output module 4 DO; DC 17.4 V / 27 mA	W	O		10/ 06
4 DO DC17,4V/27mA Shutdown "H"	6ES7132-7RD11-0AB0	Digital output module 4 DO; DC 17.4 V / 27 mA; shutdown "H"	W P	O		
4 DO DC17,4V/40mA	6ES7132-7RD20-0AB0	Digital output module 4 DO; DC 17.4 V / 40 mA	W	O		10/ 06
4 DO DC17,4V/40mA Shutdown "H""	6ES7132-7RD21-0AB0	Digital output module 4 DO; DC 17.4 V / 40 mA; shutdown "H"	W	O		06/ 10
4 DO DC17,4V/40mA Shutdown "H"	6ES7132-7RD22-0AB0	Digital output module 4 DO; DC 17.4 V / 40 mA; shutdown "H"	W P	O		
4 DO DC23,1V/20mA Shutdown "L"	6ES7132-7GD00-0AB0	Digital output module 4 DO; DC 23.1 V / 20 mA; shutdown "L"	W P	O		

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
4 DO DC17,4V/27mA Shutdown "L"	6ES7132-7GD10-0AB0	Digital output module 4 DO; DC 17.4 V / 27 mA; shutdown "L"	W P	O		
4 DO DC17,4V/40mA Shutdown "L"	6ES7132-7GD20-0AB0	Digital output module 4 DO; DC 17.4 V / 40 mA; shutdown "L"	W	O		06/ 10
4 DO DC17,4V/40mA Shutdown "L"	6ES7132-7GD21-0AB0	Digital output module 4 DO; DC 17.4 V / 40 mA; shutdown "L"	W P	O		
4 DO DC25,5V/22mA Shutdown "L"	6ES7132-7GD30-0AB0	Digital output module 4 DO; DC 25.5 V / 22 mA; shutdown "L"	W P	O		

10.7 DO-F

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
4F-DO Ex(i) DC 17,4V/ 40mA	6ES7138-7FD00-0AB0	Digital output module 4 DO; DC 17.4 V / 40 mA; PP-switching, safety-related, Ex i	W P	M		

10.8 IM

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200iSP-IM 152-1	6ES7152-1AA00-0AB0	Interface module for ET 200iSP electronic modules for intrinsically safe PROFIBUS DP	W	S		
ET 200iSP-IM 152-1	6ES7152-1AA00-0AB0 V2.0	Interface module for ET 200iSP electronic modules for intrinsically safe PROFIBUS DP can be used for redundant operation in the H system	W	S	X	
ET 200iSP-IM 152-1PN	6ES7152-1BA00-0AB0	Interface module for ET 200iSP PROFINET connection Standard and redundant mode	W P	S	X	

10.9 PS

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PS DC 24V	6ES7 138-7EA00-0AA0	Power supply for ET 200iSP				07/06
PS DC 24V	6ES7 138-7EA01-0AA0	Power supply for ET 200iSP				
PS AC 120/230V	6ES7 138-7EC00-0AA0	Power supply for ET 200iSP				

10.10 EM

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Reserve module	6ES7138-7AA00-0AA0	Reserve module for free slots				

10.11 Watchdog

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Watchdog module	6ES7138-7BB00-0AB0	Special module for functional check of the ET 200iSP	WP	O		

10.12 Couplers

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
RS 485-IS coupler	6ES7 972-0AC80-0XA0	Fieldbus coupler between PROFIBUS DP and RS 485-IS; to control intrinsically safe PROFIBUS nodes; installation in Zone 2 possible; extended temperature range				

10.13 Terminal module

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
TM-EM/EM 60 S	6ES7 193-7CA00-0AA0	Terminal module for 2 EM; screw terminal				
TM-EM/EM 60 C	6ES7 193-7CA10-0AA0	Terminal module for 2 EM; spring-loaded terminal				
TM-EM/EM 60 S	6ES7 193-7CA20-0AA0	Terminal module for 2 EM; screw terminal				
TM-EM Relais C	6ES7 193-7CB00-0AA0	Terminal module for EM relay; screw terminal				
TM-IM/EM 60 S	6ES7 193-7AA00-0AA0	Terminal module for IM / EM; screw terminal				
TM-IM/EM 60 C	6ES7 193-7AA10-0AA0	Terminal module for IM / EM; spring-loaded terminal				
TM-IM/EM 60 S	6ES7 193-7AA20-0AA0	Terminal module for IM / EM; screw terminal				
TM-IM/IM	6ES7 193-7AB00-0AA0	Terminal module for redundant IM				
TM-PS-A	6ES7 193-7DA00-0AA0	Terminal module for power supply				07/06
TM-PS-B	6ES7 193-7DB00-0AA0	Terminal module for redundant power supply				07/06
TM-PS-A	6ES7 193-7DA10-0AA0	Terminal module for 24 V DC power supply				12/17
TM-PS-B	6ES7 193-7DB10-0AA0	Terminal module for 24 V DC redundant power supply				12/17
TM-PS-A	6ES7 193-7DA20-0AA0	Terminal module for 120/230 V AC power supply				
TM-PS-B	6ES7 193-7DB20-0AA0	Terminal module for 120/230 V AC redundant power supply				

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11.1 AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 AI U	6ES7 134-4FB00-0AB0	Analog input module 2 AI; (+/-5 V, 1 ... 5 V, +/-10 V) / 13 bits; standard	W Y			07/ 05
2 AI U	6ES7 134-4FB01-0AB0	Analog input module 2 AI; (+/-5 V, 1 ... 5 V, +/-10 V) / 13 bits; standard	W Y			
2 AI I 2DMU	6ES7 134-4GB00-0AB0	Analog input module 2 AI; 2-wire measuring transducer (4 ... 20 mA) / 13 bits; standard	W Y			04/ 05
2 AI I 2DMU	6ES7 134-4GB01-0AB0	Analog input module 2 AI; 2-wire measuring transducer (4 ... 20 mA) / 13 bits; standard	W Y			
2 AI I 4DMU	6ES7 134-4GB10-0AB0	Analog input module 2 AI; 4-wire measuring transducer (+/-20 mA, 4 ... 20 mA) / 13 bits; standard	W Y			05/ 05
2 AI I 4DMU	6ES7 134-4GB11-0AB0	Analog input module 2 AI; 4-wire measuring transducer (+/-20 mA, 4 ... 20 mA) / 13 bits; standard	W Y			
2 AI I TC	6ES7 134-4JB00-0AB0	Analog input module 2 AI TC; 15 bits; standard	W Y			09/ 08
2 AI I TC	6ES7 134-4JB01-0AB0	Analog input module 2 AI TC; 15 bits; standard	W Y			10/ 16
2 AI I RTD	6ES7 134-4JB50-0AB0	Analog input module 2 AI RTD; 15 bits; standard	W Y			09/ 08
2 AI I RTD	6ES7 134-4JB51-0AB0	Analog input module 2 AI RTD; 15 bits; standard	W			
2 AI U	6ES7 134-4LB00-0AB0	Analog input module 2 AI; (1 ... 5 V, +/- 5 V, +/- 10 V) / 15 bits; high-resolution	W Y			06/ 06
2 AI U	6ES7 134-4LB02-0AB0	Analog input module 2 AI; (1 ... 5 V, +/- 5 V, +/- 10 V) / 15 bits; high-resolution	W Y			
2 AI I	6ES7 134-4MB00-0AB0	Analog input module 2 AI; (+/-20 mA, 4 ... 20 mA) / 15 bits, high-resolution	W Y			06/ 06
2 AI I	6ES7 134-4MB02-0AB0	Analog input module 2 AI; (+/-20 mA, 4 ... 20 mA) / 15 bits, high-resolution	W Y			
2 AI I TC High Feature	6ES7 134-4NB00-0AB0	Analog input module 2 AI TC; 15 bits; high feature	W Y			09/ 05

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 AI I TC High Feature	6ES7 134-4NB01-0AB0	Analog input module 2 AI TC; 15 bits; high feature	W Y			
2 AI I RTD High Feature	6ES7 134-4NB50-0AB0	Analog input module 2 AI RTD; 15 bits; high feature	W Y			11/ 05
2 AI I RTD High Feature	6ES7 134-4NB51-0AB0	Analog input module 2 AI RTD; 15 bits; high feature	W Y			

11.2 AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 AO U	6ES7 135-4FB00-0AB0	Analog output module 2 AO; 1 ... 5 V / 12 Bit, +/-10 V / 13 bits; standard	W Y			05/ 05
2 AO U	6ES7 135-4FB01-0AB0	Analog output module 2 AO; 1 ... 5 V / 12 Bit, +/-10 V / 13 bits; standard	W Y			
2 AO I	6ES7 135-4GB00-0AB0	Analog output module 2 AO; (+/-20 mA, 4 ... 20 mA) / 13 bits; standard	W Y			05/ 05
2 AO I	6ES7 135-4GB01-0AB0	Analog output module 2 AO; (+/-20 mA, 4 ... 20 mA) / 13 bits; standard	W Y			
2 AO U	6ES7 135-4LB00-0AB0	Analog output module 2 AO; (1 ... 5 V, +/-10 V) / 15 bits; high-resolution	W Y			08/ 03
2 AO U	6ES7 135-4LB01-0AB0	Analog output module 2 AO; (1 ... 5 V, +/-10 V) / 15 bits; high-resolution, supports isochronous mode	W Y			06/ 06
2 AO U	6ES7 135-4LB02-0AB0	Analog output module 2 AO; (1 ... 5 V, +/-10 V) / 15 bits; high-resolution, supports isochronous mode	W Y			
2 AO I	6ES7 135-4MB00-0AB0	Analog output module 2 AO; (+/-20 mA, 4 ... 20 mA) / 15 bits; high-resolution	W Y			08/ 03
2 AO I	6ES7 135-4MB01-0AB0	Analog output module 2 AO; (+/-20 mA, 4 ... 20 mA) / 15 bits, high-resolution, supports isochronous mode	W Y			06/ 06
2 AO I	6ES7 135-4MB02-0AB0	Analog output module 2 AO; (+/-20 mA, 4 ... 20 mA) / 15 bits; high-resolution, supports isochronous mode	W Y			

11.3 DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 DI DC24V	6ES7 131-4BB00-0AA0	Digital input module 2 DI; 24 V DC; standard	W Y			04/ 05
2 DI DC24V	6ES7 131-4BB01-0AA0	Digital input module 2 DI; 24 V DC; standard	W Y			
4 DI DC24V	6ES7 131-4BD00-0AA0	Digital input module 4 DI; 24 V DC; standard	W Y			04/ 05
4 DI DC24V	6ES7 131-4BD01-0AA0	Digital input module 4 DI; 24 V DC; standard	W Y			
2 DI DC24V High Feature	6ES7 131-4BB00-0AB0	Digital input module 2 DI; 24 V DC; High Feature; with diagnostics	W Y			06/ 05
2 DI DC24V High Feature	6ES7 131-4BB01-0AB0	Digital input module 2 DI; 24 V DC; High Feature; with diagnostics	W Y			
4 DI DC24V High Feature	6ES7 131-4BD00-0AB0	Digital input module 4 DI; 24 V DC; High Feature; with diagnostics	W Y			05/ 05
4 DI DC24V High Feature	6ES7 131-4BD01-0AB0	Digital input module 4 DI; 24 V DC; High Feature; with diagnostics	W Y			
8 DI DC24V High Speed	6ES7 131-4BF00-0AA0	Digital input module 8 DI; DC 24 V;supports isochronous mode	W Y			
4 DI	6ES7 131-4CD00-0AB0	Digital input module 4 DI; UC 24 ... 48 V; High Feature; with diagnostics	W Y			08/ 10
4 DI UC 24..48V HF	6ES7 131-4CD02-0AB0	Digital input module 4 DI; UC 24 ... 48 V; High Feature; with diagnostics	W Y			
2 DI AC 120V	6ES7 131-4EB00-0AB0	Digital input module 2 DI; 120 V AC	W Y			
2 DI AC 230V	6ES7 131-4FB00-0AB0	Digital input module 2 DI; 120 V AC	W Y			
4 DI NAMUR	6ES7 131-4RD00-0AB0	Digital input module 4 DI NAMUR; with diagnostics	W Y			10/ 10
4 DI NAMUR	6ES7 131-4RD02-0AB0	Digital input module 4 DI NAMUR; with diagnostics	W Y			
8 DI DC 24V	6ES7 138-4FA00-0AB0	Digital input module 4 / 8 DI; 24 V DC; 8 DI safety-related SIL-2 or 4 DI safety-related SIL-3, with diagnostics	W Y			06/ 04
8 DI DC 24V	6ES7 138-4FA01-0AB0	Digital input module 4 / 8 DI; 24 V DC; 8 DIsafety-related SIL-2 or 4 DI safety-related SIL-3, with diagnostics	W Y			10/ 05

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
8 DI DC 24V	6ES7 138-4FA02-0AB0	Digital input module 4 / 8 DI; 24 V DC; 8 DI safety-related SIL-2 or 4 DI safety-related SIL-3, with diagnostics	W Y			01/ 07
8 DI DC 24V	6ES7 138-4FA03-0AB0	Digital input module 4 / 8 DI; 24 V DC; 8 DI safety-related SIL-2 or 4 DI safety-related SIL-3, with diagnostics	W Y			10/ 08
8 DI DC 24V	6ES7 138-4FA04-0AB0	Digital input module 4 / 8 DI; 24 V DC; 8 DI safety-related SIL-2 or 4 DI safety-related SIL-3, with diagnostics	W Y			09/ 15
8 DI DC 24V	6ES7 138-4FA05-0AB0	Digital input module 4 / 8 DI; 24 V DC; 8 DI safety-related SIL-2 or 4 DI safety-related SIL-3, with diagnostics	W Y			

11.4 DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
2 DO DC24V/0.5A	6ES7 132-4BB00-0AA0	Digital output module 2 DO; 24 V DC / 0.5 A; standard	W Y			04/ 05
2 DO DC24V/0.5A	6ES7 132-4BB01-0AA0	Digital output module 2 DO; 24 V DC / 0.5 A; standard	W Y			
2 DO DC24V/2A	6ES7 132-4BB30-0AA0	Digital output module 2 DO; 24 V DC / 2 A; standard	W Y			04/ 05
2 DO DC24V/2A	6ES7 132-4BB31-0AA0	Digital output module 2 DO; 24 V DC / 2 A; standard	W Y			
2 DO DC24V/0.5A High Feature	6ES7 132-4BB00-0AB0	Digital output module 2 DO; 24 V DC / 0.5 A; High Feature; with diagnostics	W Y			09/ 05
2 DO DC24V/0.5A High Feature	6ES7 132-4BB01-0AB0	Digital output module 2 DO; 24 V DC / 0.5 A; High Feature; with diagnostics	W Y			
2 DO DC24V/2A High Feature	6ES7 132-4BB30-0AB0	Digital output module 2 DO; 24 V DC / 2 A; High Feature; with diagnostics	W Y			07/ 05
2 DO DC24V/2A High Feature	6ES7 132-4BB31-0AB0	Digital output module 2 DO; 24 V DC / 2 A; High Feature; with diagnostics	W Y			
4 DO DC24V/0.5A	6ES7 132-4BD00-0AA0	Digital output module 4 DO; 24 V DC / 0.5 A; standard	W Y			05/ 05

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
4 DO DC24V/0.5A High Feature	6ES7 132-4BD00-0AB0	Digital output module 4 DO; 24 V DC / 0.5 A; High Feature; with diagnostics	W Y			
4 DO DC24V/0.5A	6ES7 132-4BD01-0AA0	Digital output module 4 DO; 24 V DC / 0.5 A; standard	W Y			10/ 10
4 DO DC24V/0.5A	6ES7 132-4BD02-0AA0	Digital output module 4 DO; 24 V DC / 0.5 A; standard	W Y			
4 DO DC24V/2A	6ES7 132-4BD30-0AA0	Digital output module 4 DO; 24 V DC / 2 A; standard	W Y			04/ 05
4 DO DC24V/2A High Feature	6ES7 132-4BD30-0AB0	Digital output module 4 DO; 24 V DC / 2 A; High Feature, with diagnostics	W Y			
4 DO DC24V/2A	6ES7 132-4BD31-0AA0	Digital output module 4 DO; 24 V DC / 2 A; standard	W Y			05/ 07
4 DO DC24V/2A	6ES7 132-4BD32-0AA0	Digital output module 4 DO; 24 V DC / 2 A; standard	W Y			
8 DO DC24V/0.5A High Speed	6ES7 132-4BF00-0AA0	Digital output module 8 DO; 24 V DC/ 0.5 A; supports isochronous mode	W Y			
8 DO DC24V/0.5A High Feature	6ES7 132-4BF00-0AB0	Digital output module 8 DO; 24 V DC/ 0.5 A; High Feature, with diagnostics, supports isochronous mode	W Y			
2 DO AC 120/230V/ 1A	6ES7 132-4FB00-0AB0	Digital output module 2 DO; 120 / 230 V, 1 A AC	W Y			01/ 07
2 DO AC 120/230V/ 1A	6ES7 132-4FB01-0AB0	Digital output module 2 DO; 120 / 230 V, 1 A AC	W Y			
2 DO Rel. 24.230V/5A	6ES7 132-4HB00-0AB0	Digital output module 2 relays; 24..230 V / 5 A UC	W Y			04/ 05
2 DO Rel. 24.230V/5A	6ES7 132-4HB01-0AB0	Digital output module 2 relays; 24..230 V / 5 A UC	W Y			
2 DO Rel. 24.230V/5A	6ES7 132-4HB10-0AB0	Digital output module 2 relays; form C; 24..230 V / 5 A UC	W Y			05/ 11
2 DO Rel. 24.230V/5A	6ES7 132-4HB12-0AB0	Digital output module 2 relays; form C; 24..230 V / 5 A UC	W Y			
4 DO DC 24V/2A	6ES7 138-4FB00-0AB0	Digital output module 4 DO; DC 24 V / 2 A; safety-related up to SIL-3, with diagnostics, PM-switching	W Y			06/ 04
4 DO DC 24V/2A	6ES7 138-4FB01-0AB0	Digital output module 4 DO; DC 24 V / 2 A; safety-related up to SIL-3, with diagnostics, PM-switching	W Y			10/ 05
4 DO DC 24V/2A	6ES7 138-4FB02-0AB0	Digital output module 4 DO; DC 24 V / 2 A; safety-related up to SIL-3, with diagnostics, PM-switching	W Y			10/ 08

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
4 DO DC 24V/2A	6ES7 138-4FB03-0AB0	Digital output module 4 DO; DC 24 V / 2 A; safety-related up to SIL-3, with diagnostics, PM-switching	W Y			07/ 14
4 DO DC 24V/2A	6ES7 138-4FB04-0AB0	Digital output module 4 DO; DC 24 V / 2 A; DC safety related to SIL-3, with diagnostics, PM switching	W Y			

11.5 FM

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Counter module, 24 V/100 kHz	6ES7 138-4DA04-0AB0	Counter module, 24 V / 100 kHz; for single, continuous and periodic counting, supports isochronous mode (only counting and measuring modes have been released for PCS 7)	W Y			

11.6 IM

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
IM 151-1	6ES7 151-1BA00-0AB0	Interface module IM 151-1 for ET 200S; high feature	W Y	X		10/ 05
IM 151-1	6ES7 151-1BA01-0AB0	Interface module IM 151-1 for ET 200S; high feature	W Y	X		03/ 07
IM 151-1	6ES7 151-1BA02-0AB0	Interface module IM 151-1 for ET 200S; high feature	W Y	X		

11.7 PS

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PM-E DC24V	6ES7 138-4CA00-0AA0	Power supply, DC 24 V; with diagnostics	W Y			04/ 05
PM-E DC24V	6ES7 138-4CA01-0AA0	Power supply, DC 24 V; with diagnostics	W Y			
PM-E DC24V HF	6ES7 138-4CA60-0AB0	Power supply, DC 24 V; with diagnostics, high feature	W Y			
PM-E DC24V/ AC120/230V	6ES7 138-4CB10-0AB0	Power supply, DC 24 V; AC 120 V or 230 V; with diagnostics and fuse	W Y			11/ 06
PM-E DC24V..48/ AC24..230V	6ES7 138-4CB11-0AB0	Power supply, DC 24 ... 48 V, AC 24 ... 230 V; with diagnostics and fuse	W Y			
PM-E DC24V	6ES7 138-4CF00-0AB0	Power supply, DC 24 V; safety-related, with 2 DO 24V PM-switching; with diagnostics	W Y			06/ 04
PM-E DC24V	6ES7 138-4CF01-0AB0	Power supply, DC 24 V; safety-related, with 2 DO 24V PM-switching; with diagnostics	W Y			10/ 05
PM-E DC24V	6ES7 138-4CF02-0AB0	Power supply, DC 24 V; safety-related, with 2 DO 24V PM-switching; with diagnostics	W Y			10/ 08
PM-E DC24V	6ES7 138-4CF03-0AB0	Power supply, DC 24 V; safety-related, with 2 DO 24V PM-switching; with diagnostics	W Y			
PM-E DC24V	6ES7 138-4CF42-0AB0	Power supply, DC 24 V; safety-related, PP-switching; with diagnostics	W Y			
PM-D DC24V	3RK1 903-0BA00	Power supply, DC 24 V; 2 PM-D; DC 24 V	W Y			
PM-D F1 SIGUARD	3RK1 903-1BA00	Power supply; EMERGENCY OFF; monitored start-up; 2-channel	W Y			
PM-D F2 SIGUARD	3RK1 903-1BB00	Power supply; protective door; autostart; 2-channel	W Y			
PM-D F4 SIGUARD	3RK1 903-1BC00	Power supply; extension to F1/2 for additional potential group	W Y			
PM-D F3 SIGUARD	3RK1 903-1BD00	Power supply; extension to F1/2 for additional potential group; time-delayed	W Y			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PM-D F5 SIGUARD	3RK1 903-1BE00	Power supply; extension to PM-D F1 to PM-D F4; contact multiplier	W Y			
PM-X SIGUARD	3RK1 903-1CB00	Connection module for incoming feeder protection; external safety circuits	W Y			
PM-D F PROFIsafe	3RK1 903-3BA00	Power supply for 6 vector groups; safety-related	W Y			03/ 06
PM-D F PROFIsafe	3RK1 903-3BA01	Power supply for 6 vector groups; safety-related	W Y			10/ 09
PM-D F PROFIsafe	3RK1 903-3BA02	Power supply for 6 vector groups; safety-related	W Y			
F-CM	3RK1 903-3CA00	Contact multiplier; extension to PM-D F PROFIsafe;	W Y			
PM-D F X1	3RK1 903-3DA00	Power supply/expansion module; overvoltage protection; for supplying external EMERGENCY OFF signals; for 6 vector groups	W Y			

11.8 Terminal module

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
TM-E15x26-A1	6ES7 193-4CAx0-0AA0	Terminal module for electronic modules; pass-through AUX rail to adjacent potential group on the left; access to AUX1 potential via terminals	Y			
TM-E15x24-A1	6ES7 193-4CAx0-0AA0	Terminal module for electronic modules; pass-through AUX rail to adjacent potential group on the left; access to AUX1 potential via terminals	Y			
TM-E15x24-01	6ES7 193-4CBx0-0AA0	Terminal module for electronic modules; pass-through AUX rail to adjacent potential group on the left; no access to AUX1 potential via terminals	Y			
TM-E15x23-01	6ES7 193-4CBx0-0AA0	Terminal module for electronic modules; pass-through AUX rail to adjacent potential group on the left; no access to AUX1 potential via terminals	Y			
TM-E15x24-AT	6ES7 193-4CLx0-0AA0	Terminal module for electronic modules 2 AI TC HF; pass-through AUX rail to adjacent potential group on the left; no access to AUX1 potential via terminals	Y			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
TM-E30x46-A1	6ES7 193-4CFx0-0AA0	Terminal module for electronic modules; pass-through AUX rail to adjacent potential group on the left; access to AUX1 potential via terminals	Y			
TM-E30x44-01	6ES7 193-4CGx0-0AA0	Terminal module for electronic modules; pass-through AUX rail to adjacent potential group on the left; no access to AUX1 potential via terminals	Y			
TM-P15x23-A1	6ES7 193-4CCx0-0AA0	Terminal module for power supply; pass-through AUX rail to adjacent potential group on the left; access to AUX1 potential via terminals	Y			
TM-P15x23-A0	6ES7 193-4CDx0-0AA0	Terminal module for power supply; interrupted AUX rail to adjacent potential group on the left; access to AUX1 potential via terminals	Y			
TM-P15x22-01	6ES7 193-4CEx0-0AA0	Terminal module for power supply; pass-through AUX rail to adjacent potential group on the left; no access to AUX1 potential via terminals	Y			
TM-P30x44-A0	6ES7 193-4CKx0-0AA0	Terminal module for fail-safe power supply PM-E F; interrupted AUX rail to adjacent potential group on the left; access to AUX1 potential via terminals	Y			
TM-P15S27-01	3RK1 903-0AA00	Terminal module for power supply PM-D; with end cover	Y			
TM-PF30S47-B1	3RK1 903-1AA00	Terminal module SIGUARD PM-D F 1,2; for potential group, supply U1, U2, sensor connection	Y			
TM-PF30S47-B0	3RK1 903-1AA10	Terminal module for SIGUARD PM-D F 1,2 for potential subgroup, sensor connection	Y			
TM-PF30S47-C1	3RK1 903-1AC00	Terminal module SIGUARD PM-D F 3,4 for potential group, supply U1, U2	Y			
TM-PF30S47-C0	3RK1 903-1AC10	Terminal module SIGUARD PM-D F 3,4 for potential subgroup, supply U2	Y			
TM-PF30S47-D0	3RK1 903-1AD10	Terminal module SIGUARD PM-D F 5 for contact multipliers	Y			
TM-X15 S27-01	3RK1 903-1AB00	Terminal module for connection module PM-X connection unit for supply contactor	Y			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
TM-PF30S47-F1	3RK1 903-3AA00	Terminal module for fail-safe power supply PM-D F; pass-through AUX rail to adjacent potential group on the left; no access to AUX1 potential via terminals	Y			
TM-FCM30S47-E0	3RK1 903-3AB10	Terminal module for F-CM; with bushing for U1	Y			
TM-PFX30S47-G1	3RK1 903-3AE00	Terminal module for PM-D F X1; for potential group; no supply from left for U1	Y			
TM-PFX30S47-G0	3RK1 903-3AE10	Terminal module for PM-D F X1; for potential group; with supply from left for U1	Y			

11.9 Motor starter

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB10-0AA2	Direct starter DS 1e-x; 0.3 - 3 A; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; high feature	W Y			05/ 04
DS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB10-0AA3	Direct starter DS 1e-x; 0.3 - 3 A; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; switch ES; high feature	W Y			08/ 12
DS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB10-0AA4	Direct starter DS 1e-x; 0.3 - 3 A; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; switch ES; high feature; circuit-breaker notification can be assigned	W Y			10/ 12

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB10-0AA2	Direct starter DS 1e-x; 2.4 - 8 A; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2,4 A to 8 A; Option: Brake control module, control module; high feature	W Y			05/ 04
DS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB10-0AA3	Direct starter; DS 1e-x; 2.4 - 8 A; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2,4 A to 8 A; Option: Brake control module, control module; switch ES; high feature	W Y			09/ 12
DS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB10-0AA4	Direct starter DS 1e-x; 2.4 - 8 A; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2,4 A to 8 A; Option: Brake control module, control module; switch ES; high feature; circuit-breaker notification can be assigned	W Y			11/ 12
DS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB10-0AA2	Direct starter DS1e-x 2.4 - 16 A; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2,4 A to 16 A; Option: Brake control module, control module; high feature	W Y			05/ 04
DS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB10-0AA3	Direct starter DS 1e-x; 2.4 - 16 A; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2,4 A to 16 A; Option: Brake control module, control module; switch ES; high feature	W Y			11/ 12
DS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB10-0AA4	Direct starter DS 1e-x; 2.4 - 16 A; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2,4 A to 16 A; Option: Brake control module, control module; switch ES; high feature; circuit-breaker notification can be assigned	W Y			10/ 12

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DSS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB20-0AA2	Direct soft starter DSS 1e-x 0.3 - 3 A; electronic switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0,30 A to 3,00 A; Option: Brake control module, control module; high feature	W Y			05/ 04
DSS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB20-0AA3	Direct soft starter DSS 1e-x; 0.3 - 3 A; electronic switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; switch ES; high feature	W Y			11/ 14
DSS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB20-0AA4	Direct soft starter DSS 1e-x; 0.3 - 3 A; electronic switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; switch ES; high feature	W Y			11/ 14
DSS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB20-0AA2	Direct soft starter DSS 1 e-x; 2.4 - 8 A; electronic switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; high feature	W Y			05/ 04
DSS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB20-0AA3	Direct soft starter DSS 1e-x; 2,4 - 8 A; electronic switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; switch ES; high feature	W Y			02/ 14
DSS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB20-0AA4	Direct soft starter DSS 1e-x; 2.4 - 8 A; electronic switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; switch ES; high feature	W Y			02/ 14
DSS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB20-0AA2	Direct soft starter DSS 1e-x; 2.4 - 16 A; electronic switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; high feature	W Y			05/ 04

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DSS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB20-0AA3	Direct soft starter DSS 1e-x; 2.4 - 16 A; electronic switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; switch ES; high feature	W Y			02/ 14
DSS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB20-0AA4	Direct soft starter DSS 1e-x 2.4 - 16 A; electronic switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; switch ES; high feature	W Y			02/ 14
RS1e-x (0,3 - 3A) High Feature	3RK1 301-0AB10-1AA2	Reversing starter RS 1e-x; 0.3 - 3 A; High Feature; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; high feature	W Y			05/ 04
RS1e-x (0,3 - 3A) High Feature	3RK1 301-0AB10-1AA3	Reversing starter RS 1e-x; 0.3 - 3 A; High Feature; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; switch ES; high feature	W Y			08/ 12
RS1e-x (0,3 - 3A) High Feature	3RK1 301-0AB10-1AA4	Reversing starter RS 1e-x; 0.3 - 3 A; High Feature; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A bis 3 A; Option: Brake control module, control module; switch ES; high feature; circuit-breaker notification can be assigned	W Y			11/ 12
RS1e-x (2,4 - 8A) High Feature	3RK1 301-0BB10-1AA2	Reversing starter RS 1e-x; 2.4 - 8 A; High Feature; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; high feature	W Y			05/ 04

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
RS1e-x (2,4 - 8A) High Feature	3RK1 301-0BB10-1AA3	Reversing starter RS 1e-x; 2.4 - 8 A; High Feature; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; switch ES; high feature	W Y			09/ 12
RS1e-x (2,4 - 8A) High Feature	3RK1 301-0BB10-1AA4	Reversing starter RS 1e-x; 2,4 - 8 A; High feature; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; switch ES; high feature; circuit-breaker notification can be assigned	W Y			10/ 17
RS1e-x (2,4 - 16A) High Feature	3RK1 301-0CB10-1AA2	Reversing starter RS 1e-x; 2.4 - 16 A; High Feature; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; high feature	W Y			05/ 04
RS1e-x (2,4 - 16A) High Feature	3RK1 301-0CB10-1AA3	Reversing starter RS 1e-x; 2.4 - 16 A; High Feature; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; switch ES; high feature	W Y			09/ 12
RS1e-x (2,4 - 16A) High Feature	3RK1 301-0CB10-1AA4	Reversing starter RS 1e-x; 2.4 - 16 A; High Feature; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; switch ES; high feature; circuit-breaker notification can be assigned	W Y			09/ 12

11.10 F motor starter

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
F-DS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB13-0AA2	Safe direct starter F-DS 1e-x; 0.3 - 3 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe	W Y			
F-DS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB13-0AA4	Safe direct starter F-DS 1e-x; 0.3 - 3 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe; circuit-breaker notification can be assigned	W Y			
F-DS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB13-0AA2	Safe direct starter F-DS 1e-x; 2.4 - 8 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe	W Y			
F-DS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB13-0AA4	Safe direct starter F-DS 1e-x; 2,4 - 8 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe; circuit-breaker notification can be assigned	W Y			
F-DS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB13-0AA2	Safe direct starter F-DS 1e-x; 2.4 - 16 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe	W Y			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
F-DS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB13-0AA4	Safe direct starter F-DS 1e-x; 2.4 - 16 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe; circuit-breaker notification can be assigned	W Y			
F-RS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB13-1AA2	Safe reversing starter F-RS 1e-x; 0.3 - 3 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe	W Y			
F-RS1e-x 0,3 - 3 A High Feature	3RK1 301-0AB13-1AA4	Safe reversing starter F-RS 1e-x; 0.3 - 3 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 1.1 KW / 400 V; 0.3 A to 3 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe; circuit-breaker notification can be assigned	W Y			
F-RS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB13-1AA2	Safe reversing starter F-RS 1e-x; 2.4 - 8 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe	W Y			
F-RS1e-x 2,4 - 8 A High Feature	3RK1 301-0BB13-1AA4	Safe reversing starter F-RS 1e-x; 2.4 - 8 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 3 KW / 400 V; 2.4 A to 8 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe; circuit-breaker notification can be assigned	W Y			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
F-RS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB13-1AA2	Safe reversing starter F-RS 1e-x; 2.4 - 16 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe	W Y			
F-RS1e-x 2,4 - 16 A High Feature	3RK1 301-0CB13-1AA4	Safe reversing starter F-RS 1e-x; 2.4 - 16 A; high feature; mechanical switching; electronic UE protection; no fuse; up to 7.5 KW / 400 V; 2.4 A to 16 A; Option: Brake control module, control module; high feature; for PM-D F PROFIsafe; circuit-breaker notification can be assigned	W Y			

11.11 Motor starter accessories

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
xB3 DC24V/4A	3RK1 903-0CE00	Brake control module DC 24 V / 4 A; 2 DI; DC 24 V; local control	W Y			
xB4 DC500V/0,7A	3RK1 903-0CF00	Brake control module DC 500 V / 0.7 A; 2 DI; DC 24 V; local control	W Y			

11.12 TM motor starter

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
TM-DS65-S32-01 FS L	3RK1 903-0AK00	Terminal module for DS 1e-x and DSS 1e-x; motor starters, with power bus supply, with caps	Y			
TM-DS65-S31-01 S	3RK1 903-0AK10	Terminal module for DS 1e-x and DSS 1e-x; motor starter, with power bus bushing	Y			
TM-RS130-S32-01 FS L	3RK1 903-0AL00	Terminal module for RS 1e-x; motor starter, with power bus supply, with caps	Y			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
TM-RS130-S31-01 S	3RK1 903-0AL10	Terminal module for RS 1e-x; motor starter, with power bus bushing	Y			
TM-FDS65-S32-01 FS L	3RK1 903-0AC00	Terminal module for F-DS 1e-x; motor starter, with power bus supply, with caps	Y			
TM-FDS65-S32-01 FS L	3RK1 903-3AC00	Terminal module for F-DS 1e-x; motor starter, with power bus supply, with caps	Y			
TM-FDS65-S31-01 S	3RK1 903-0AC10	Terminal module for F-DS 1e-x; motor starter, with power bus bushing	Y			
TM-FDS65-S31-01 S	3RK1 903-3AC10	Terminal module for F-DS 1e-x; motor starter, with power bus bushing	Y			
TM-FRS130-S32-01 FS L	3RK1 903-0AD00	Terminal module for F-RS 1e-x; motor starter, with power bus supply, with caps	Y			
TM-FRS130-S32-01 FS L	3RK1 903-3AD00	Terminal module for F-RS 1e-x; motor starter, with power bus supply, with caps	Y			
TM-FRS130-S31-01 S	3RK1 903-0AD10	Terminal module for F-RS 1e-x; motor starter, with power bus bushing	Y			
TM-FRS130-S31-01 S	3RK1 903-3AD10	Terminal module for F-RS 1e-x; motor starter, with power bus bushing	Y			
TM-xB215 S24-01	3RK1 903-0AG01	Terminal module for brake control module xB3, xB4	Y			

ET 200SP

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12.1 AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
AI 4 x I 2-/4-wire ST	6ES7134-6GD00-0BA1	Analog input module AI 4 x I 2-/4-wire standard module diagnostics, 16-bit, +/-0.3%	W P			04/ 18
AI 4xI 2-/4-wire ST	6ES7134-6GD01-0BA1	Analog input module AI 4xI 2-/4-wire standard, module diagnostics, 16-bit, +/-0.3%	W P			
AI 4 x U/I 2-wire ST	6ES7134-6HD00-0BA1	Analog input module AI 4 x U/I 2--wire standard module diagnostics, 16-bit, +/-0.3%	W P			04/ 18
AI 4 x U/I 2-wire ST	6ES7134-6HD01-0BA1	Analog input module AI 4 x U/I 2-wire standard module diagnostics, 16-bit, +/-0.3%	W P			
AI 4 x RTD/TC 2-/3-/4-wire HF	6ES7134-6JD00-0CA1	Analog input module AI 4 x RTD/TC High Feature channel diagnostics, 16-bit, +/-0.1% 2-/3-/4-wire	W P			
AI Energy Meter ST	6ES7134-6PA00-0BD0 1) 3)	Analog input module AI Energy Meter ST, channel diagnostics	W P			01/ 17
AI Energy Meter 480VAC ST	6ES7134-6PA20-0BD0	Analog input module AI Energy Meter 480V AC ST; channel diagnostics	W P			
AI 2 x U/I 2-,4-wire HF	6ES7134-6HB00-0CA1	Analog input module AI 2 x U/I 2-,4-wire High Feature channel diagnostics, 16-bit, +/-0.1%	W P			
AI 4 x I 2-wire HART	6ES7134-6TD00-0CA1 2)	Analog input module AI 4 x I 2-wire HART High Feature channel diagnostics, 16-bit, +/-0.3%	W P			
AI 8 x RTD/TC 2-wire HF	6ES7134-6JF00-0CA1 2)	Analog input module AI 8 x RTD/TC 2-wire High Feature channel diagnostics, 16-bit, +/-0.1%	W P			

1) To use this module the Interface Module IM155-6PN HF FW V3.1 and higher is required as of FW V2.0 and higher.

2) To use this module the Interface Module IM155-6PN HF FW V3.1 and higher is required.

3) The module has not been released for use on Interface Module IM155-6DP HF.

12.2 AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
AQ 2xU/I HF	6ES7135-6HB00-0CA1	Analog output module AQ 2xU/I High Feature, channel diagnostics, 16-bit, +/-0.3%	W P			
AQ 4xU/I ST	6ES7135-6HD00-0BA1	Analog output module AQ 4xU/I standard, module diagnostics, 16-bit, +/-0.3%	W P			
AQ 4xI HART	6ES7135-6TD00-0CA1	Analog output module AQ 4xI HART, channel diagnostics	W P			

12.3 DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DI 8x24VDC ST	6ES7131-6BF00-0BA0	Digital input module DI 8x 24VDC standard, module diagnostics	W P			02/ 18
DI 8x24VDC ST	6ES7131-6BF01-0BA0	Digital input module DI 8x 24VDC standard, module diagnostics	W P			
DI 16x24VDC ST	6ES7131-6BH00-0BA0	Digital input module DI 16x 24VDC standard, module diagnostics	W P			03/ 18
DI 16x 24VDC ST	6ES7131-6BH01-0BA0	Digital input module DI 16x 24VDC standard, module diagnostics	W P			
DI 8x24VDC HF	6ES7131-6BF00-0CA0	Digital input module DI 8x 24VDC High Feature, channel diagnostics	W P			
DI 8x24VDC High Speed	6ES7131-6BF00-0DA0	Digital input module DI 8x 24VDC High Speed, module diagnostics	W P			
DI 8x24VDC HF NAMUR	6ES7131-6TF00-0CA0	Digital input module DI 8x 24VDC NAMUR, High Feature, channel diagnostics	W P			
DI 4x120..230VAC ST	6ES7131-6FD01-0BB1	Digital input module DI 4x 120..230VAC standard, module diagnostics	W P			

12.4 DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DQ 4x24VDC/2A HF	6ES7132-6BD20-0CA0	Digital output module DQ 4x 24VDC/2A High Feature, channel diagnostics	W P			
DQ 4x24VDC 2A ST	6ES7132-6BD20-0BA0	Digital output module DQ 4x24VDC 2 A standard, module diagnostics	W P			
DQ 4x24..230VAC/2A ST	6ES7132-6FD00-0BB1	Digital output module DQ 4x24VAC 2 A standard, module diagnostics	W P			
DQ 8x24VDC 0.5A ST	6ES7132-6BF00-0BA0	Digital output module DQ 8x24VDC 0.5 A standard, module diagnostics	W P			03/ 18
DQ 8x24VDC/0.5A ST	6ES7132-6BF01-0BA0	Digital output module DQ 8x24VDC/0.5A standard, module diagnostics	W P			
DQ 8 DC24V 0.5A HF	6ES7132-6BF00-0CA0	Digital output module DQ 8x24VDC 0.5 A High Feature, channel diagnostics	W P			
DQ 16x24VDC 0.5A ST	6ES7132-6BH00-0BA0	Digital output module DQ 16x24VDC 0.5A standard, module diagnostics	W P			04/ 18
DQ 16x24VDC/0.5A ST	6ES7132-6BH01-0BA0	Digital output module DQ 16x24VDC/0.5A standard, module diagnostics	W P			
RQ NO 4x120VDC..230VAC/ 5A ST	6ES7132-6HD00-0BB0 [1]	Digital output module RQ 4x120VDC..230VAC 5 A standard, relay module Normally Open, module diagnostics	W P			12/ 16
RQ NO 4x120VDC..230VAC/ 5A ST	6ES7132-6HD00-0BB1	Digital output module RQ 4x120VDC..230VAC 5 A standard, relay module Normally Open, module diagnostics	W P			03/ 18
RQ NO 4x120VDC..230VAC/ 5A ST	6ES7132-6HD01-0BB1	Digital output module RQ NO 4x120VDC..230VAC/5A standard, relay module, Normally Open, module diagnostics	W P			

[1] The module has not been released for use on interface module IM155-6DP HF.

12.5 IM

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200SP IM155-6PN HF	6ES7155-6AU00-0CN0	PROFINET Interface Module IM155-6PN High Feature; max. 64 I/O modules, 0,25 ms isochronous mode, Multi Hot Swap, incl. server module	W P	X		05/ 19
ET 200SP IM155-6PN/2 HF	6ES7155-6AU01-0CN0	PROFINET 2-port Interface Module IM155-6PN/2 High Feature, max. 64 I/O modules, S2 redundancy, Multi Hot Swap, 0.25ms, isochronous mode, incl. server module	W P	X		

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200SP IM155-6DP HF	6ES7155-6BU00-0CN0	PROFIBUS Interface Module IM155-6DP High Feature; max. 32 I/O modules, Multi Hot Swap	W	X		06/19
ET 200SP IM155-6DP HF	6ES7155-6BU01-0CN0 [1]	PROFIBUS Interface Module IM155-6DP High Feature; max. 32 I/O modules, Multi Hot Swap	W	X		

[1] Orderable via article number 6ES7155-6BA01-0CN0

12.6 Server module

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SERVER MODULE	6ES7193-6PA00-0AA0	Spare part server module for ET 200SP	W P			

12.7 Bus adapter

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
BA 2xRJ45	6ES7193-6AR00-0AA0	2x RJ45 connection for PROFINET	W P			
BA 2xFC	6ES7193-6AF00-0AA0 [1]	2x FAST CONNECT (FC) connection for PROFINET	W P			
BA 2xSCRJ	6ES7193-6AP00-0AA0 [1]	2x SCRJ FO connection for PROFINET	W P			
BA 2xLC	6ES7193-6AG00-0AA0 [2]	2x LC fiber-optic cable connection for PROFINET	W P			
BA LC/FC	6ES7193-6AG40-0AA0 [2]	1x LC fiber-optic cable connection and 1x Fast Connect connection for PROFINET	W P			
BA LC/RJ45	6ES7193-6AG20-0AA0 [2]	1x LC fiber-optic cable connection and 1x RJ45 connection for PROFINET	W P			
BA SCRJ/RJ45	6ES7193-6AP20-0AA0 [1]	1x SCRJ FO connection and 1x RJ45 connection for PROFINET Media converter FOC - CU	W P			
BA SCRJ/FC	6ES7193-6AP40-0AA0 [1]	1x SCRJ FO connection and 1x FAST CONNECT (FC) connection for PROFINET Media converter FOC - CU	W P			

[1] To use this module the interface module IM155-6 PN HF HW V3 and higher and FW V3.1 and higher is required. Additional information is available in the respective manual: *SIMATIC*

ET 200SP Interface Module IM 155-6 PN/2 HF (https://support.industry.siemens.com/cs/de/de/view/73184046/en)

[2] To use this module the interface module IM155-6 PN HF HW V3 and higher and FW V3.3 and higher is required.

ET 200X

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13.1 AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200X EM 144 AI 2x U	6ES7 144-1FB31-0XB0	Expansion module 2 AI; +/-10 V; diagnostics	W			10/ 08
ET 200X EM 144 AI 2x I	6ES7 144-1GB31-0XB0	Expansion module 2 AI; +/-20 mA, 4 ... 20 mA; 4-wire measuring transducer; diagnostics	W			10/ 08
ET 200X EM 144 AI 2x I	6ES7 144-1GB41-0XB0	Expansion module 2 AI; 4 ... 20 mA; 2-wire measuring transducer; diagnostics	W			10/ 08
ET 200X EM 144 AI 2x RTD	6ES7 144-1JB31-0XB0	Expansion module 2 AI RTD; Pt 100; diagnostics	W			10/ 08

13.2 AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200X EM 145 AO 2x U	6ES7 145-1FB31-0XB0	Expansion module 2 AO; +/-10 V; diagnostics	W			10/ 08
ET 200X EM 145 AO 2x I	6ES7 145-1GB31-0XB0	Expansion module 2 AO; +/-20 mA, 4 ... 20 mA; diagnostics	W			10/ 08

13.3 BM_DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200X BM 141 DI 8xDC24V	6ES7 141-1BF11-0XB0	Basic module ET 200X; 8 DI; DC 24 V, can be expanded with analog EMs	W	X		05/ 03

13.4 BM_DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200X BM 142 DO 4xDC24V/2A	6ES7 142-1BD21-0XB0	Basic module ET 200X; 4 DO; DC 24 V / 2 A; can be expanded with analog EMs	W	X		11/ 02

13.5 DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200X EM 141 DI 8xDC24V	6ES7 141-1BF30-0XA0	Expansion module 8 DI; DC 24 V	W			05/ 03
ET 200X EM 141 DI 8xDC24V	6ES7 141-1BF40-0XA0	Expansion module 8 DI; DC 24 V	W			05/ 03

13.6 DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200X EM 142 DO 4xDC24V/2A	6ES7 142-1BD40-0XB0	Expansion module 4 DO; 24 V / 2 A DC; diagnostics	W			10/ 08
ET 200X EM 142 DO 8xDC24V/1.3A	6ES7 142-1BF30-0XA0	Expansion module 8 DO; DC 24 V / 1.3 A	W			10/ 08

13.7 PS

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200X PM 148	6ES7 148-1CA00-0XB0	Power supply for ET 200X; 4 DO; DC 24 V / 2 A; with load voltage supply; diagnostics by channel	W			10/08

13.8 Valve

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200X EM 148-P DO 16xP/CPV10	6ES7 148-1EH01-0XA0	Expansion module 16 DO P (coupling module for valve terminal CPV 10)	W			10/08
ET 200X EM 148-P DO 16xP/CPV14	6ES7 148-1EH11-0XA0	Expansion module 16 DO P (coupling module for valve terminal CPV 14)	W			10/08

ET 200pro

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14.1 AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200PRO EM 144 AI 4 x U	6ES7 144-4FF00-0AB0	Analog input module 4 AI; ±10 V, ±5 V; 1 ... 5 V; 0 ... 10 V	W Y			03/ 14
ET 200PRO EM 144 4AI-U HF	6ES7144-4FF01-0AB0	Analog input module 4 AI U High Feature +-10V; 0...10V; +-5V; 1...5V; channel diagnostics	W Y			
ET 200PRO EM 144 AI 4 x I	6ES7 144-4GF00-0AB0	Analog input module 4 AI; ±20 mA; 0 ... 20 mA; 4 ... 20 mA	W Y			03/ 14
ET 200PRO EM 144 4AI-I HF	6ES7144-4GF01-0AB0	Analog input module 4 AI I High Feature +-20mA; 0...20mA; 4-20mA; channel diagnostics	W Y			
ET 200PRO EM 144 AI 4 x RTD	6ES7 144-4JF00-0AB0	Analog input module 4 AI RTD	W Y			
ET 200PRO EM 144 AI 4 x TC HF	6ES7 144-4PF00-0AB0	Analog input module 4 AI TC; high feature	W Y			

14.2 AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200PRO EM 145 AO 4 x U	6ES7 145-4FF00-0AB0	Analog output module 4 AO; ±10 V; 1 ... 5 V; 0 ... 10 V	W Y			
ET 200PRO EM 145 AO 4 x I	6ES7 145-4GF00-0AB0	Analog output module 4 AO; ±20 mA; 0 ... 20 mA; 4 ... 20 mA	W Y			

14.3 DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200PRO EM 141 DI 8xDC 24V	6ES7 141-4BF00-0AB0	Digital input module 8 DI; 24 V DC; high feature	W Y			

14.4 DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200PRO EM 142 DO 4xDC 24V/2A	6ES7 142-4BD00-0AB0	Digital output module 4 DO; 24 V / 2A DC; high feature	W Y			

14.5 F_DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200PRO EM 148 F-DI 8/16xDC 24V	6ES7 148-4FA00-0AB0	Digital input module 8 / 16 DI; DC 24 V; PROFIsafe V2, safety-related	W Y			

14.6 F_DI/DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200PRO EM 148 F-DI 4/8xDC 24V F-DO 4xDC24V/2A	6ES7 148-4FC00-0AB0	Digital input/output module 4 / 8 DI; 4 DODC 24 V / 2 A; PROFIsafe V2, safety-related	W Y			

14.7 IM

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200PRO IM154-2 DP HF	6ES7 154-2AA00-0AB0	PROFIBUS DP Interface module for ET 200pro; high feature; including termination module	W	X		05/ 10
ET 200PRO IM154-2 DP HF	6ES7 154-2AA01-0AB0	PROFIBUS DP Interface module for ET 200pro; high feature; including termination module	W Y	X		

14.8 PS

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
ET 200PRO PM-E DC24V	6ES7 148-4CA00-0AA0	Power supply for ET 200pro; DC 24 V	W Y			
ET 200PRO PS 24 V/8 A	6ES7 148-4PC00-0HA0	SIMATIC ET 200PRO PS, IP67; Input: 3 AC 400-480 V output: DC 24 V/8 A				

14.9 Connection modules

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
CM IM DP ECOFAST	6ES7 194-4AA00-0AA0	Connection module CM for IM ECOFAST CU DP	Y			
CM IM DP Direkt	6ES7 194-4AC00-0AA0	Connection module CM for IM DP direct	Y			
CM IM DP M12 / 7/8"	6ES7 194-4AD00-0AA0	Connection module CM for IM DP M12 / 7 / 8"	Y			
CM PM ECOFAST	6ES7 194-4BA00-0AA0	Connection module CM for PM ECOFAST	Y			
CM PM Direkt	6ES7 194-4BC00-0AA0	Connection module CMfor PM direct	Y			
CM PM 7/8"	6ES7 194-4BD00-0AA0	Connection module CM for PM 7 / 8"	Y			
CM IO 4 x M12	6ES7 194-4CA00-0AA0	Connection module CM for 4 IO M12	Y			
CM IO 8 x M12	6ES7 194-4CB00-0AA0	Connection module CM for 8 IO M12	Y			
CM 12×M12 für 4/8 F-DI/4 F-DO	6ES7 194-4DC00-0AA0	Connection module CM for the F-DI / DO-EM; 4 / 8 F-DI / 4 F-DO; DC 24 V / 2 A	Y			
CM 16×M12 für 8/16 F-DI	6ES7 194-4DD00-0AA0	Connection module CM for the F-DI EM 8 / 16 F-DI; DC 24 V / 2 A	Y			

Gateway

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15.1 PN/PN Coupler

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PN/PN Coupler	6ES7 158-3AD10-0XA0	For coupling of two PROFINET networks; 2 PROFINET interfaces with 2 ports each; port diagnostics	WP			

15.2 IE/PB Link

Approved combinations

See *SIMATIC Net; S7-CPs for Industrial Ethernet; Manual, Part BL1* for the approved combinations of Interface Modules, couplers and Bus Modules as well as for the available functions.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
IE/PB Link PN IO	6GK1 411-5AB00	IE/PB link PROFINET IO proxy including real-time; gateway between Industrial Ethernet and Profibus; S7 routing; data record gateway; S7 slaves; DPV1 slaves; 10/100 Mbps Fast Ethernet; 9.6 Kbps to 12 Mbps PROFIBUS	WP			04/17
IE/PB Link PN IO	6GK1 411-5AB10	IE/PB link PROFINET IO proxy with real-time communication, S7 routing, data record routing, S7 slaves, DPV1 slaves; 10/100 Mbps Fast Ethernet; MRP; 9.6 Kbps to 12 Mbps PROFIBUS	WP			
IE/PB Link HA	6GK1 411-5BB00	IE/PB Link PROFINET IO proxy with real-time communication, system redundancy 2 with S7-400H, H-CiR, S7 routing, data record routing; 10/100 Mbps Fast Ethernet, MRP, 9.6 Kbps to 12 Mbps PROFIBUS	WP	XS		

15.3 Y switch

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Scalance XF204-2BA DNA	6GK5 204-2AA00-2YF2 [1)]	Managed Switch; 2x bus adapter interface; PROFINET IO device	W P	S		

[1)] Module supports Configuration in Run (CiR) from FW V4.0

15.4 PA Link

Approved combinations

See *SIMATIC Bus links DP/PA coupler, active field distributor, PA Link and Y Link* documentation for the approved combinations of interface modules, couplers and bus modules and for the available functions.

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
IM 157	6ES7 157-0AA80-0XA0	Interface module for PROFIBUS PA; extended temperature range -25 ... 60 °C	W	X		06/ 00
IM 157	6ES7 157-0AA81-0XA0	Interface module for PROFIBUS PA; extended temperature range -25 ... 60 °C	W	X		12/ 03
IM 157	6ES7 157-0AA82-0XA0 V4.x	Interface module for PA Link, DP V1 to DP and PA; module replacement during operation, information function, FW update via bus, extension of process control functions	W	S		06/ 06
IM 153-2 HF	6ES7 153-2BA01-0XB0 V4.x	PA Link, DP V1 to DP and PA; module replacement during operation, information function, FW update via bus, extension of process control functions	W	S		10/ 09
IM 153-2 Outdoor	6ES7 153-2BA81-0XB0 V4.x	PA Link, Outdoor, DP V1 to DP and PA; module replacement during operation, information function, FW update via bus, extension of process control functions	W	S		10/ 07
IM 153-2 HF	6ES7 153-2BA02-0XB0 V5.x	PA Link, DP V1 to DP and PA; module replacement during operation, information function, FW update via bus, extension of process control functions	W	S		01/ 16

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
IM 153-2 HF Outdoor	6ES7 153-2BA82-0XB0 V5.x	PA Link, Outdoor, DP V1 to DP and PA; module replacement during operation, information function, FW update via bus, extension of process control functions	W	S		10/16
IM 153-2 HF Outdoor	6ES7 153-2BA70-0XB0	PA Link, DP V1 to DP and PA; module replacement during operation, information function, FW update via bus, extension of process control functions, PA Link with extended field bus diagnostics	W	S		

15.5 FF Link

Approved combinations

See *SIMATIC Bus links FF Link bus link* documentation for the approved combinations of interface modules, couplers and bus modules and for the available functions.

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
IM 153-2 FF Outdoor	6ES7 153-2DA80-0XB0	Interface module for SIMATIC FF Link, capable of redundant operation; FOUNDATION Fieldbus Link Master, extended temperature range	W			10/17
FDC 157	6ES7 157-0AC84-0XA0	Interface module for SIMATIC FF Link; physical interface for FOUNDATION Fieldbus H1, capable of redundant operation, with integrated bus supply up to 1 A; integrated diagnostics	W	S		10/16
FDC 157	6ES7 157-0AC85-0XA0	DP/FF coupler; Interface module for SIMATIC FF Link; physical interface for FOUNDATION Fieldbus H1, capable of redundant operation, with integrated bus supply up to 1 A; integrated diagnostics	W	S		

15.6 Compact FF Link

Approved combinations

You can find additional information in the *SIMATIC Bus links; Compact FF Link bus link* documentation.

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
Compact FF Link	6ES7 655-5BA00-0AB0	Interface for FOUNDATION Fieldbus; FOUNDATION Fieldbus Link Master; for redundant operation; integrated diagnostics extended temperature range; with integrated bus supply up to 0.5 A	W			

15.7 Y Link

Approved combinations

See *SIMATIC Bus links DP/PA coupler, active field distributor, PA Link and Y Link* documentation for the approved combinations of interface modules, couplers and bus modules and for the available functions.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Y coupler	6ES7 654-0YK00-0AB0	Y coupler; star connection for connection of single-channel I/O to H system; single interface module				10/06
Y coupler	6ES7 197-1LB00-0XA0	Y coupler; star connection for connection of single-channel I/O to H system; single interface module with integrated RS 485 repeater				
Y Link	6ES7 197-1LA12-0XA0	Y Link for connecting single-channel DP slaves to S7-400H and AS 410H	W			

15.8 DP/PA coupler

Approved combinations

See *SIMATIC*
Bus links DP/PA coupler, active field distributor, PA Link and Y-Link documentation for the approved combinations of interface modules, couplers and bus modules and for the available functions.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DP/PA coupler	6ES7 157-0AC00-0XA0	DP/PA coupler				04/00
DP/PA coupler	6ES7 157-0AC80-0XA0	DP/PA coupler, non-ex; (outdoor); 400 mA				05/04
DP/PA coupler	6ES7 157-0AC81-0XA0	DP/PA coupler, non-ex; (outdoor); 400 mA				04/05
DP/PA coupler	6ES7 157-0AC82-0XA0	DP/PA coupler, non-ex; (outdoor); 1000 mA, 31 V				07/07
DP/PA coupler	6ES7 157-0AC83-0XA0	DP/PA coupler, non-ex; (outdoor); for redundant operation			A	10/16
DP/PA coupler	6ES7 157-0AC85-0XA0	DP/PA coupler, non-ex; (outdoor); for redundant operation; extended field bus diagnostics			A	
DP/PA coupler	6ES7 157-0AD00-0XA0	DP/PA coupler, ex(i)				07/01
DP/PA coupler	6ES7 157-0AD80-0XA0	DP/PA coupler, ex(ib); extended environmental conditions				12/03
DP/PA coupler, ex	6ES7 157-0AD81-0XA0	DP/PA coupler; extended environmental conditions (ia), FM certification				05/04
DP/PA coupler, ex	6ES7 157-0AD82-0XA0	DP/PA coupler; extended environmental conditions (ia), FM certification, dust type certification				

15.9 Optical link module

Approved combinations

See the *SIMATIC*
Bus Links DP/PA Coupler, Active Field Distributors, PA Link and Y-Link manual for the approved combinations of interface modules, couplers and bus modules and for the available functions.

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
PROFIBUS OLM P11	6GK1 503-2CA00 V4.x	Optical Link Module; 1 RS 485 1 fiber-optic interface (2 BFOC - POF/PCF); signal contact and measurement output, including 2 BFOC connectors				
PROFIBUS OLM P12	6GK1 503-3CA00 V4.x	Optical Link Module; 1 RS 485 2 fiber-optic interfaces (4 BFOC - POF/PCF); signal contact and measurement output, including 4 BFOC connectors				
PROFIBUS OLM G11	6GK1 503-2CB00 V4.x	Optical Link Module; 1 RS 485 1 fiber-optic interface (2 BFOC - multimode fiber-optic cable); signal contact and measurement output				
PROFIBUS OLM G12	6GK1 503-3CB00 V4.x	Optical Link Module; 1 RS 485 1 fiber-optic interface (2 BFOC - multimode fiber-optic cable); signal contact and measurement output				
PROFIBUS OLM G12-EEC	6GK1 503-3CD00 V4.x	Optical Link Module; 1 RS 485 2 fiber-optic interface (4 BFOC - multimode fiber-optic cable); signal contact and measurement output, extended temperature range -20 ... +60 °C				
PROFIBUS OLM G11-1300	6GK1 503-2CC00 V4.x	Optical Link Module; 1 RS 485 1 fiber-optic interface (2 BFOC - single-mode fiber-optic cable) wavelength 1300 nm for large distances, signal contact and measurement output				
PROFIBUS OLM G12-1300	6GK1 503-3CC00 V4.x	Optical Link Module; 1 RS 485 2 fiber-optic interface (4 BFOC - single-mode fiber-optic cable) wavelength 1300 nm for large distances, signal contact and measurement output				
PROFIBUS OLM G22	6GK1 503-4CB00 V4.x	Optical Link Module; 2 RS 485 2 fiber-optic interface (2 BFOC) signal contact and measurement output				

15.10 Active field distributors

Approved combinations

See *SIMATIC*
Bus links DP/PA coupler, active field distributor, PA Link and Y-Link documentation for the approved combinations of interface modules, couplers and bus modules and for the available functions.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Active field distributor AFS	6ES7 157-0AG80-0XA0	Active field distributor AFS for PROFIBUS PA and FOUNDATION Fieldbus H1; coupler redundancy				
Active field distributor AFD4	6ES7 157-0AG81-0XA0	Active field distributor AFD4 for PROFIBUS PA and FOUNDATION Fieldbus H1; ring redundancy; 4 spur lines				
Active field distributor AFD8	6ES7 157-0AG82-0XA0	Active field distributor AFD8 for PROFIBUS PA and FOUNDATION Fieldbus H1; ring redundancy; 8 spur lines				
Active field distributor AFDiS	6ES7 157-0AG83-0XA0	Active field distributor AFDiS for PROFIBUS PA and FOUNDATION Fieldbus H1; Zone 1; ring redundancy; 6 spur lines				05/16
Active field distributor AFD4 FM	6ES7 655-5DX40-1AA1	Active field distributor AFD4 FM for PROFIBUS PA and FOUNDATION Fieldbus H1; ring redundancy; 4 spur lines				
Active field distributor AFD4 RAILMOUNT	6ES7 655-5DX40-2AA0	Active field distributor AFD4 RAILMOUNT for PROFIBUS PA and FOUNDATION Fieldbus H1; ring redundancy; 4 spur lines; mounting on DIN mounting rail				
Active field distributor AFDiSD	6ES7 655-5DX60-1BB0	Active field distributor AFDiSD with diagnostics for PROFIBUS PA and FOUNDATION Fieldbus H1; ring redundancy; 6 spur lines				

15.11 Accessories

Approved combinations

See the corresponding manuals for the approved combinations of interface modules and bus modules and for the available functions.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
BM PS/IM SIPLUS extreme	6AG1 195-7HA00-2XA0	Bus module for IM 153-2 High Feature / IM 153-2 FF Active bus module for 1 load power supply and 1 module; for "hot swap in runtime" function, extended temperature range -25 to +70 °C				
BM PS/IM	6ES7 195-7HA00-0XA0	Bus module for IM 153 Active bus module for 1 power supply and 1 module				
BM IM/IM	6ES7 195-7HD80-0XA0	Bus module for IM 157 / IM 153-2 High Feature / IM 153-2 FF Active bus module for 2 modules; for redundant and non-redundant configuration; "hot swap in runtime" function, extended temperature range -25 to +60 °C				
BM IM/IM	6ES7 195-7HD10-0XA0	Bus module for IM 153-2 Bus module for redundant IM mode; "hot swap in runtime" function				
BM	6ES7 195-7HE80-0XA0	Bus module for IM 157 Bus module for redundant configuration of the IM 157 and module hot swap in runtime; temperature range -25 to +60 °C				07/14
BM FDC	6ES7 195-7HF80-0XA0	Bus module for 1 DP/PA coupler Ex(i) / FDC 157-0 / 1 field device coupler Active bus module for "hot swap in runtime" function, extended temperature range -25 to +60 °C				
BM FDC/FDC	6ES7 195-7HG80-0XA0	Bus module for 2 DP/PA couplers / 2 field device couplers Active bus module for redundant configuration; for "hot swap in runtime" function, extended temperature range -25 to +60 °C				
BM	6ES7 654-7HY00-0XA0	Bus module for Y coupler				
BM Compact FF Link	6ES7655-5EF00-0AA0	Bus module for Compact FF Link Active bus module for 2 modules; for redundant and non-redundant configuration; "hot swap in runtime" function, extended temperature range -25 ... +60 °C				

Repeater

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16.1 Repeater

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Diagnostic Repeater	6ES7 972-0AB00-0XA0	Diagnostic repeater for line diagnostics on the PROFIBUS-DP (RS 485); IP 20, to 12 Mbps, DP V0-Slave	W	X		02/03
Diagnostic Repeater	6ES7 972-0AB01-0XA0	Diagnostic repeater for line diagnostics on the PROFIBUS-DP (RS 485); IP 20, to 12 Mbps, DP V1-Slave	W Y	X		
RS 485 repeater	6ES7 972-0AA01-0XA0	RS 485 repeater; for connecting PROFIBUS/MPI bus systems to a max. of 31 nodes. Max. transmission rate 12 Mbps; IP 20 degree of protection				05/11
RS 485 repeater	6ES7 972-0AA02-0XA0	RS 485 repeater; for connecting PROFIBUS/MPI bus systems to a max. of 31 nodes. Max. transmission rate 12 Mbps; IP 20 degree of protection				

Network Components 17

17.1 IE OSM - ESM

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Product cancellation: 09/2002

17.2 SCALANCE XB-000

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

17.3 SCALANCE X100

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Product cancellation: 10/2018

17.4 SCALANCE X-100 Media Converter

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

17.5 SCALANCE XC-100

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

17.6 SCALANCE X200

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Has been released for PROFINET as of firmware V4.0.

17.7 SCALANCE XB200

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Has been released for PROFINET as of firmware V1.2.

17.8 SCALANCE XP200

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Recommended for use in PROFINET.

The device variants that can be used in each case can be found in the current PCS 7 hardware catalog in HW Config.

More information is provided in the FAQ under the entry ID 109800740 in Industry Online Support:

- Internet link (https://support.industry.siemens.com/cs/de/en/view/109800740)

17.9 SCALANCE XF200

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Recommended for use in PROFINET.

The device variants that can be used in each case can be found in the current PCS 7 hardware catalog in HW Config.

More information is provided in the FAQ under the entry ID 109800740 in Industry Online Support:

- Internet link (https://support.industry.siemens.com/cs/de/en/view/109800740)

17.10 SCALANCE XC200

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Recommended for use in PROFINET.

The device variants that can be used in each case can be found in the current PCS 7 hardware catalog in HW Config.

More information is provided in the FAQ under the entry ID 109800740 in Industry Online Support:

- Internet link (https://support.industry.siemens.com/cs/de/en/view/109800740)

17.11 SCALANCE X300

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Has been released for PROFINET as of firmware V3.0.

17.12 SCALANCE XR300 Modular

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Has been released for PROFINET as of firmware V3.0.

17.13 SCALANCE X400

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Has been released for PROFINET as of firmware V3.0.

Note

Product cancellation: 10/2015

17.14 SCALANCE XM400

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

17.15 SCALANCE XR500 Modular

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

17.16 SCALANCE S600 (Industrial Security Module)

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Product cancellation: 10/2016

17.17 SCALANCE SC-600 (Industrial Security Module)

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

17.18 SCALANCE W700 (WLAN)

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

Note

Has been released for PROFINET as of firmware V4.0.

The device variants that can be used in each case can be found in the current PCS 7 hardware catalog in HW Config.

More information is provided in the FAQ under the entry ID 109800740 in Industry Online Support:

- Internet link (https://support.industry.siemens.com/cs/de/en/view/109800740)

17.19 SCALANCE W1700 (WLAN)

Note

All product types, modules, and accessories of SIMATIC NET released for this product family can also be used for PCS 7.

17.20 RUGGEDCOM RSG900R

Note

All product types, modules, and accessories released for this product family can also be used for PCS 7.

17.21 RUGGEDCOM RST2228

Note

All product types, modules, and accessories released for this product family can also be used for PCS 7.

PC 18

18.1 CP Ethernet

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
CP 1623	6GK1 162-3AA00	SIMATIC NET CP 1623 Industrial Ethernet; Iso, TCP/IP, S7 connections, programming device functions, PCI-E (Express) network card; 2-port switch; RJ45 port				
CP 1628	6GK1 162-8AA00	SIMATIC NET CP 1628 Industrial Ethernet; Iso, TCP/IP, S7 connections, programming device functions, PCI-E (Express) X1; 2-port switch; RJ45 connector; Integrated Security				06/21

18.2 Network adapter

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Server adapter network card PCI-E	A5E01579487	Server adapter network card for BCE; Intel PCI-E (Express) network card for connecting to Industrial Ethernet (10/100/1000 Mbps); RJ45 port; replacement part for redundant terminal bus				
Desktop adapter network card PCI-E	A5E02639550	Desktop adapter network card for BCE; Intel PCI-E (Express) network card for connecting to Industrial Ethernet (10/100/1000 Mbps); RJ45 port; replacement part for redundant terminal bus				
Redundant terminal bus adapter PCI-E	6ES7 652-0XX01-1XF1	Redundant terminal bus adapter package; • each with 1x server adapter network card PCI-E • each with 1x desktop adapter network card PCI-E for connection to Industrial Ethernet (10/100/1000 Mbps); RJ45 connector				

18.3 Graphics cards

Graphics cards are products of third-party manufacturers.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
Nvidia NVS315	A5E36966175	PCIe x16; 1 GB				
NVIDIA QUADRO P400	A5E44936965	PCIe x16; 2 GB				

18.4 Signal modules

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
	6DS1 916-8RR	Signal module, PCI card for installation in an operator station				07/17

18.5 Chip card reader

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
	6ES7652-0XX02-1XC0	SIMATIC PCS 7 USB Chip Card Reader; chip card reader in tabletop version including USB connecting cable				
	6ES7652-0XX00-1XD2	SIMATIC PCS 7 TCOS 3.0 chip card for chip card reader				

PC-based automation

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19.1 PCS 7 AS RTX

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PCS 7 AS RTX 2010	6ES7 654-0UE23-0XX1	Based on Microbox 427D; 1x CP 5622 onboard; PROFIBUS; WinAC RTX 2010 software CPU;	W			10/20
PCS 7 AS RTX 2010	6ES7 654-0UE23-0XX2	Based on Microbox 427D; 1x CP 1616 onboard (3 ports); PROFINET; WinAC RTX 2010 software CPU;	W P			10/20

PCS 7 partner modules

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20.1 Buerkert

Note

You can find additional information on pneumatic valves, ordering and support on the Internet at www.burkert.com

Table 20-1 **Buerkert AirLINE Ex Type 8650 pneumatic valve terminal for SIMATIC ET 200iSP**

Product name	Article no.	Short description	Properties (Page 141)			
			F	C	R	T
4 DO 11mm valve	BUERKERT-ID00171941	Digital output module 4 DQ 11mm, 8650 AirLINE Ex	W			
4 DO 16.5mm valve	BUERKERT-ID00171943	Digital output module 4 DQ 16.5mm, 8650 AirLINE Ex	W			
8 DO 11mm valve	BUERKERT-ID00171942	Digital output module 8 DQ 11mm, 8650 AirLINE Ex	W			
8 DO 16.5mm valve	BUERKERT-ID00171944	Digital output module 8 DQ 16.5mm, 8650 AirLINE Ex	W			

Table 20-2 **Buerkert AirLINE SP Ex Type 8647 pneumatic valve terminal for SIMATIC ET 200SP and ET 200SP HA**

Product name	Article no.	Short description	Properties (Page 141)			
			F	C	R	T
PQ16VS8	BURKERT_ID_00284806	Digital output module 16 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ16VS8	W P			
PQ16VS8 EVS	BURKERT_ID_00285096	Digital output module 16 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ16VS8 EVS	W P			
PQ16VS8 EVS 5/3	BURKERT_ID_00331589	Digital output module 16 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ16VS8 EVS 5/3; for 5/3-way valves	W P			
PQ4VS4	BURKERT_ID_00284935	Digital output module 4 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ4VS4	W P			

Product name	Article no.	Short description	Properties (Page 141)			
			F	C	R	T
PQ4VS4 EVS	BURKERT_ID_00285097	Digital output module 4 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ4VS4 EVS	W P			
PQ8VS4	BURKERT_ID_00284936	Digital output module 8 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ8VS4	W P			
PQ8VS4 EVS	BURKERT_ID_00285098	Digital output module 8 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ8VS4 EVS	W P			
PQ8VS4 EVS 5/3	BURKERT_ID_00331588	Digital output module 8 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ8VS4 EVS 5/3; for 5/3-way valves	W P			
PQ8VS8	BURKERT_ID_00283166	Digital output module 8 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ8VS8	W P			
PQ8VS8 EVS	BURKERT_ID_00285095	Digital output module 8 DQ; Bürkert AirLINE SP Type 8647 Pneumatic module PQ8VS8 EVS	W P			
PSU-L	BURKERT_ID_00285088	Bürkert AirLINE SP Type 8647 Pneumatic connection module, left	P			
PSU-L-M	BURKERT_ID_00284112	Bürkert AirLINE SP Type 8647 Pneumatic connection module, left; manometer	P			
PSU-L-PS	BURKERT_ID_00292732	Bürkert AirLINE SP Type 8647 Pneumatic connection module, left; pressure transducer	P			
PSU-M	BURKERT_ID_00285091	Bürkert AirLINE SP Type 8647 Pneumatic connection module, central	P			
PSU-M-M	BURKERT_ID_00284944	Bürkert AirLINE SP Type 8647 Pneumatic connection module, central; manometer	P			
PSU-R	BURKERT_ID_00285092	Bürkert AirLINE SP Type 8647 Pneumatic connection module, right	P			
PSU-R-M	BURKERT_ID_00284195	Bürkert AirLINE SP Type 8647 Pneumatic connection module, right; manometer	P			
PSU-R-PS	BURKERT_ID_00292734	Bürkert AirLINE SP Type 8647 Pneumatic connection module, right; pressure transducer	P			

20.2 Buerk

Note

For additional information on "Time synchronization in SIMATIC PCS 7 with time server from Bürk Mobatime enterprise" please refer to entry ID 109760344 in the Industry Online Support.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
DTS 4128		DTS 4128 Time server; 1 LAN port, redundancy, time signal outputs (NTP, DCF)				
DTS 4128S		DTS 4128S Time server; 1 LAN port, redundancy, time signal outputs (NTP, DCF)				
DTS 4138S		DTS 4138S Time server; 2 LAN ports, redundancy, time signal outputs (NTP, IRIG/AFNOR, RS 232/ RS 485, DCF)				

20.3 SICLOCK

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
	2XV9 450-1AR13	WinGPS for Windows 95 / NT; GPS receiver for time synchronization suitable for global use, assembly material included				05/ 11
	2XV9 450-1AR14	DCFRS for Windows 95 / NT; DCF 77 receiver for time synchronization in Europe, assembly material included				04/ 16
SICLOCK TC400	2XV9 450-2AR01	SICLOCK TC400; time transmitter Synchronization of the nodes connected via Industrial Ethernet • 4 independent Ethernet ports • 3 outputs for point-to-point connections with TTY/24 V and RS 422/5 V • Terminal for radio controlled clocks, outputs and alarm • 19" RACK for SICLOCK TC400 (2XV9450-2AR81)				11/ 18

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SICLOCK TC400	2XV9 450-2AR10	SICLOCK TC400; time transmitter, complete package with SICLOCK GPS1000 radio controlled clock; 24 V to 110 V DC; Synchronization of the nodes connected via Industrial Ethernet • 4 independent Ethernet ports • 3 outputs for point-to-point connections with TTY/24 V and RS 422/5 V • Terminal for radio controlled clocks, outputs and alarm • 19" RACK for SICLOCK TC400 (2XV9450-2AR81)				04/16
SICLOCK TC400	2XV9 450-2AR20	SICLOCK TC400; time transmitter DCFRS; complete package with radio clock SICLOCK DCFRS; 24 V to 110 V DC; Synchronization of the nodes connected via Industrial Ethernet • 4 independent Ethernet ports • 3 outputs for point-to-point connections with TTY/24 V and RS 422/5 V • Terminal for radio controlled clocks, outputs and alarm • 19" RACK for SICLOCK TC400 (2XV9450-2AR81)				02/17
SICLOCK TC100	2XV9 450-2AR22	SICLOCK TC100; time transmitter 24 V DC; Synchronization of the nodes connected via Industrial Ethernet • 1 Ethernet port 10/100 Mbps, autonegotiation • Radio controlled clock input, relay outputs				11/18
SICLOCK TC100	2XV9 450-2AR26	SICLOCK TC100 and DCF77 time receiver, consisting of master system clock TC100, DCFRS radio receiver 24 V DC; Synchronization of the nodes connected via Industrial Ethernet • 1 Ethernet port 10/100 Mbps, autonegotiation • Radio controlled clock input, relay outputs				02/17

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SICLOCK TC100	2XV9 450-2AR50	SICLOCK TC100 and GPS radio receiver and lightning protection, consisting of master system clock TC100, GPS1000 radio receiver; 24 V DC; Synchronization of the nodes connected via Industrial Ethernet • 1 Ethernet port 10/100 Mbps, autonegotiation • Radio controlled clock input, relay outputs				04/16
SICLOCK TM	2XV9 450-1AR24	SICLOCK TM time transmitter; complete package GPS; 24 V to 110 V DC; for synchronizing the nodes connected via Industrial Ethernet				09/11
SICLOCK TM	2XV9 450-1AR25	SICLOCK TM time transmitter; GPS complete package; 90 V to 240 V AC/DC, for synchronizing the nodes connected via Industrial Ethernet				09/11
SICLOCK TM	2XV9 450-1AR26	SICLOCK TM time transmitter; complete package DCF77; 24 V to 110 V DC; for synchronizing the nodes connected via Industrial Ethernet				09/11
SICLOCK TM	2XV9 450-1AR27	SICLOCK TM time transmitter, complete package DCF77; 90 V to 240 V; AC/DC; for synchronizing the nodes connected via Industrial Ethernet				09/11

20.4 SITOP

Note

PCS 7 supports SITOP products.

You will find additional information on the PCS 7 Add-on catalog.

20.5 SIMOCODE

Note

PCS 7 supports SIMOCODE products.

You will find additional information on the PCS 7 Add-on catalog.

20.6 SIMODRIVE

Note

PCS 7 supports SIMODRIVE products.

You will find additional information on the PCS 7 Add-on catalog.

20.7 SINAMICS

Note

PCS 7 supports SINAMICS products.

You will find additional information on the PCS 7 Add-on catalog.

20.8 SIWAREX

Note

PCS 7 supports SIWAREX products.

You will find additional information in the PCS 7 Add-on catalog.

20.9 AS-i

Note

PCS 7 supports AS-i products.

You will find additional information in the PCS 7 Add-on catalog.

21.1 CP PtP

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
CP341-1A	6ES7 341-1AH01-0AE0	Com. processor, RS 232 interface, rechargeable drivers	W	M		12/ 08
CP341-1A	6ES7 341-1AH02-0AE0	Com. processor, RS 232 interface, rechargeable drivers; frame length 4 KB, data transmission rate 115 Kbps, printer driver	W P SM	M		
CP341-1B	6ES7 341-1BH01-0AE0	Com. processor, TTY interface, rechargeable drivers	W	M		12/ 08
CP341-1B	6ES7 341-1BH02-0AE0	Com. processor, TTY interface, rechargeable drivers; frame length 4 KB, data transmission rate 115 Kbps, printer driver	W P SM	M		
CP341-1C	6ES7 341-1CH01-0AE0	Com. processor, RS 422 interface, rechargeable drivers	W	M		12/ 08
CP341-1C	6ES7 341-1CH02-0AE0	Com. processor, RS 422 interface, rechargeable drivers; frame length 4 KB, data transmission rate 115 Kbps, printer driver	W P SM	M		

21.2 FM

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
FM350-1 COUNTER	6ES7 350-1AH03-0AE0 V1.0.2	Counter module, 1 channel; can also be installed with active bus modules, supports isochronous mode	W P SM	M		
FM350-2 COUNTER	6ES7 350-2AH00-0AE0	Counter module, 8 channels	W	M		10/ 08
FM350-2 COUNTER	6ES7 350-2AH01-0AE0	Counter module, 8 channels	W P	M		
FM355 C PID Control	6ES7 355-0VH10-0AE0	Control module. 4 channels; (continuous) 4 AI + 8 DI + 4 AO; V2.0	W P	M		
FM355 S PID Control	6ES7 355-1VH10-0AE0	Control module 4 channels; (step and pulse) 4 AI + 8 DI + 8 DO; V2.0	W P	M		

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
FM355-2 C	6ES7 355-2CH00-0AE0	Control module 4 channels; temperature controller	W P	M		
FM355-2 S	6ES7 355-2SH00-0AE0	Control module 4 channels; temperature controller	W P	M		

21.3 PS

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PS307 2A	6ES7 307-1BA00-0AA0	Power supply AC 120 / 230 V; DC 24 V / 2 A				08/ 10
PS307 2A	6ES7 307-1BA01-0AA0	Power supply AC 120 / 230 V; DC 24 V / 2 A				
PS305 2A	6ES7 305-1BA80-0AA0	Power supply AC 24 / 110 V; DC 24 V / 2 A				
PS307 5A	6ES7 307-1EA00-0AA0	Power supply AC 120 / 230 V; DC 24 V / 5 A				08/ 10
PS307 5A	6ES7 307-1EA01-0AA0	Power supply AC 120 / 230 V; DC 24 V / 5 A				
PS307 5A	6ES7 307-1EA80-0AA0	Power supply AC 120 / 230 V; DC 24 V / 5 A				
PS307 10A	6ES7 307-1KA00-0AA0	Power supply AC 120 / 230 V; DC 24 V / 10 A				04/ 03
PS307 10A	6ES7 307-1KA01-0AA0	Power supply AC 120 / 230 V; DC 24 V / 10 A				08/ 10
PS307 10A	6ES7 307-1KA02-0AA0	Power supply AC 120 / 230 V; DC 24 V / 10 A				

21.4 SM DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM321 DI 16xDC24V	6ES7 321-1BH01-0AA0	Digital input module 16 DI; DC 24 V; grouping 16	W	M		10/ 04
SM321 DI 16xDC24V	6ES7 321-1BH02-0AA0	Digital input module 16 DI; DC 24 V; grouping 16	W P	M	M	

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM321 DI 16xDC24V	6ES7 321-1BH10-0AA0	Digital input module 16 DI; 24 V DC; grouping 16, High Speed, supports isochronous mode	W P	M		
SM321 DI 16xDC24V	6ES7 321-1BH50-0AA0	Digital input module 16 DI; DC 24 V; grouping 16, active low	W P	M		
SM321 DI 16xDC24V	6ES7 321-1BH81-0AA0	Digital input module 16 DI; DC 24 V; extended environmental conditions	W	M		10/ 00
SM321 DI 16xDC24V	6ES7 321-1BH82-0AA0	Digital input module 16 DI; DC 24 V; extended environmental conditions	W	M		11/ 03
SM321 DI 32xDC24V	6ES7 321-1BL00-0AA0	Digital input module 32 DI; DC 24 V; grouping 32	W P	M	M	
SM321 DI 32xDC24V	6ES7 321-1BL80-0AA0	Digital input module 32 DI; DC 24 V; extended environmental conditions	W	M		11/ 03
SM321 DI 64xDC24V	6ES7 321-1BP00-0AA0	Digital input module 64 DI; DC 24 V; grouping 16, active high or active low	W P	M		
SM321 DI 16xAC/DC24..48V	6ES7 321-1CH00-0AA0	Digital input module 16 DI; AC / DC 24 ...48 V; grouping 1	W P SM	M		
SM321 DI 16xDC48..120V	6ES7 321-1CH20-0AA0	Digital input module 16 DI; DC 48 ...120 V; grouping 8	W P SM	M		
SM321 DI 16xDC48..120V	6ES7 321-1CH80-0AA0	Digital input module 16 DI; DC 48 ...120 V; grouping 8, extended environmental conditions	W	M		11/ 03
SM321 DI 16xAC120V	6ES7 321-1EH01-0AA0	Digital input module 16 DI; AC 120 V; grouping 4	W	M		09/ 01
SM321 DI 32xAC120V	6ES7 321-1EL00-0AA0	Digital input module 32 DI; AC 120 V; 32 Pt 120 V AC input - IEC Type II - 8 Pts/Comm	W P SM	M		
SM321 DI 8xAC230V	6ES7 321-1FF01-0AA0	Digital input module 8 DI; AC 120 V ... 230 V; grouping 2	W P SM	M	M	
SM321 DI 8xAC120/230V	6ES7 321-1FF10-0AA0	Digital input module 8 DI; AC 120 / 230 V; 8 DI; AC Iso.; grouping 1	W P SM	M		
SM321 DI 8xAC120/230V	6ES7 321-1FF81-0AA0	Digital input module 8 DI; AC 120 / 230 V; extended environmental conditions	W	M		11/ 03
SM321 DI 16xAC120V/230V	6ES7 321-1FH00-0AA0	Digital input module 16 DI; AC 120 / 230 V; grouping 4	W P SM	M		

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM321 DI 16xDC24V, Alarm	6ES7 321-7BH00-0AB0	Digital input module 16 DI; DC 24 V; with hardware and diagnostic interrupt, grouping 16	W	O	M	08/03
SM321 DI 16xDC24V, Alarm	6ES7 321-7BH01-0AB0	Digital input module 16 DI; DC 24 V; with hardware interrupt and diagnostic interrupt, grouping 16, supports isochronous mode	W	O	G	
SM321 DI 16xDC24V, Alarm; High Feature	6ES7 321-7BH01-0AB0 ES 6 (revision)	Digital input module 16 DI; DC 24 V; with hardware interrupt and diagnostic interrupt, grouping 16, supports isochronous mode; High Feature	W P	O	C	
SM321 DI 16xDC24V, Alarm	6ES7 321-7BH80-0AB0	Digital input module 16 DI; DC 24 V; with hardware interrupt and diagnostic interrupt, grouping 16, extended environmental conditions	W	O		08/03
SM321 DI 16xDC24-125V	6ES7 321-7EH00-0AB0	Digital input module 16 DI; DC 24-125V; with hardware and diagnostic interrupt, grouping 16	W P SM	O		
SM321 DI 4xNAMUR, Ex	6ES7 321-7RD00-0AB0	Digital input module 4 DI NAMUR; with hardware interrupt and diagnostic interrupt, grouping 1, [EEx ib]	W P SM	O	C	
SM321 DI 16xNAMUR	6ES7 321-7TH00-0AB0	Digital input module 16 DI NAMUR; with diagnostics and value status	W P SM	O	C	

21.5 SM DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM322 DO 8xDC24V/2A	6ES7 322-1BF01-0AA0	Digital output module 8 DO; DC 24 V / 2 A; grouping 4	W P SM	M	C	
SM322 DO 16xDC24V/0.5A	6ES7 322-1BH01-0AA0	Digital output module 16 DO; DC 24 V / 0.5 A; grouping 8	W P	M		
SM322 DO 16xDC24V/0.5A	6ES7 322-1BH10-0AA0	Digital output module 16 DO; DC 24 V / 0.5 A; grouping 8, high speed, supports isochronous mode	W P	M		

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM322 DO 16xDC24V/0.5A	6ES7 322-1BH81-0AA0	Digital output module 16 DO; DC 24 V / 0.5 A; extended environmental conditions	W	M		11/ 03
SM322 DO 32xDC24V/0.5A	6ES7 322-1BL00-0AA0	Digital output module 32 DO; DC 24 V / 0.5 A; grouping 8	W P	M	M	
SM322 DO 64xDC24V/0.3A	6ES7 322-1BP00-0AA0	Digital output module 64 DO; DC 24 V / 0.3 A; grouping 16, P-switching	W P	M		
SM322 DO 64xDC24V/0.3A	6ES7 322-1BP50-0AA0	Digital output module 64 DO; DC 24 V / 0.3 A; grouping 16, M-switching	W P	M		
SM322 DO 8xDC48..120V/1.5A	6ES7 322-1CF00-0AA0	Digital output module 8 DO; DC 48 ...120 V / 1.5 A; grouping 4	W P SM	M		
SM322 DO 8xDC48..120V/1.5A	6ES7 322-1CF80-0AA0	Digital output module 8 DO; DC 48 ...120 V / 1.5 A; grouping 4, extended environmental conditions	W	M		11/ 03
SM322 DO 16xAC120V/0.5A	6ES7 322-1EH01-0AA0	Digital output module 16 DO; AC 120 V / 0.5 A; grouping 8	W	M		01/ 02
SM322 DO 32xAC120V/1A	6ES7 322-1EL00-0AA0	Digital output module 32 DO; AC 120 V / 1 A; grouping 8	W	M		10/ 04
SM322 DO 8xAC230V/2A	6ES7 322-1FF01-0AA0	Digital output module 8 DO; AC 230 V / 1 A; grouping 4, Si.	W P SM	M	M	
SM322 DO 8xAC120/230V/1A	6ES7 322-1FF81-0AA0	Digital output module 8 DO; AC 120 / 230 V / 1 A; extended environmental conditions	W	M		10/ 03
SM322 DO 16xAC120V/230V/0.5A	6ES7 322-1FH00-0AA0	Digital output module 16 DO; AC 120 / 230 V / 0.5 A; grouping 8	W P SM	M		
SM322 DO 32xAC120V/230V/1A	6ES7 322-1FL00-0AA0	Digital output module 32 DO; AC 120 / 230 V / 1 A; grouping 8	W P SM	M		
SM322 DO 8xRel. AC230V	6ES7 322-1HF01-0AA0	Digital output module 8 DO relays; DC 24 V / 2 A, AC 230 V / 2 A; grouping 2	W P SM	M		
SM322 DO 8xRel. AC 230V/5A	6ES7 322-1HF10-0AA0	Digital output module 8 DO relays; AC 230 V / 8 A; grouping 1	W P SM	M		

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM322 DO 8xRel. AC 24V/5A	6ES7 322-1HF20-0AA0	Digital output module 8 DO relay; DC 24 V / 5 A, AC 230 V / 5 A; grouping 1, with overvoltage protective element	W	M		07/ 02
SM322 DO 8xRel. DC24V/AC230V/5A	6ES7 322-1HF80-0AA0	Digital output module 8 DO relays; AC 230 V / 5 A; grouping 1, extended environmental conditions	W	M		11/ 03
SM322 DO 16xRel. AC120V	6ES7 322-1HH00-0AA0	Digital output module 16 DO relays; DC 24 V / 2 A, AC 120 V / 2 A; grouping 16	W	M		07/ 02
SM322 DO 16xRel. AC120V/230V	6ES7 322-1HH01-0AA0	Digital output module 16 DO relays; DC 24 V / 2 A, AC 120 V / 2 A; 230 V / 2 A; grouping 16	W P SM	M		
SM322 DO 8xAC120/230V/2A	6ES7 322-5FF00-0AB0	Digital output module 8 DO; AC 120 / 230 V / 2 A, with substitute value switching	W P SM	O		
SM322 DO 16xUC24/48V	6ES7 322-5GH00-0AB0	Digital output module 16 DO; UC 24 / 48 V; diagnostic interrupt, grouping 1,	W P SM	M		
SM322 DO 8xRel AC230V	6ES7 322-5HF00-0AB0	Digital output module 8 DO; AC 230 V / 5 A	W P SM	O		
SM322 DO 4xDC15V/20mA, Ex	6ES7 322-5RD00-0AB0	Digital output module 4 DO; DC 15 V / 20 mA; diagnostic interrupt, grouping 1, [EEx ib]	W P SM	O		
SM322 DO 4xDC24V/10mA, Ex	6ES7 322-5SD00-0AB0	Digital output module 4 DO; DC 24 V / 10 mA; diagnostic interrupt, grouping 1, [EEx ib]	W P SM	O	C	
SM322 DO 8xDC24V/0,5A	6ES7 322-8BF00-0AB0	Digital output module 8 DO; DC 24 V / 0.5 mA; diagnostic interrupt, grouping 8	W P SM	O	M	
SM322 DO 8xDC24V/0,5A	6ES7 322-8BF80-0AB0	Digital output module 8 DO; DC 24 V / 0.5 A; with diagnostics, extended environmental conditions	W	O		11/ 03
SM322 DO 16xDC24V/0,5A	6ES7 322-8BH00-0AB0	Digital output module 16 DO; DC 24 V / 0.5 A; with diagnostics	W	O	M	12/ 03
SM322 DO 16xDC24V/0,5A	6ES7 322-8BH01-0AB0	Digital output module 16 DO; DC 24 V / 0.5 A; with diagnostics	W	O	M	10/ 16
SM322 DO 16xDC24V/0,5A	6ES7 322-8BH10-0AB0	Digital output module 16 DO; DC 24 V / 0.5 A; with diagnostics	W P	O	M	

21.6 SM DI/DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM323 DI 8/DO 8 x DC24V/0.5A	6ES7 323-1BH01-0AA0	Digital input/output module 8 DI / 8 DO; DC 24 V / 0,5 A	W P SM	M		
SM323 DI 8/DO 8 x DC24V/0.5A	6ES7 323-1BH81-0AA0	Digital input/output module; 8 DI / 8 DO; DC 24 V / 0.5 A; (Outdoor)	W	M		11/ 03

21.7 SM DI-F

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM 326 DI 24x24VDC	6ES7 326-1BK00-0AB0	Digital input module 24 DI; DC 24 V; safety-related	W	OS	C	04/ 06
SM 326 DI 24xDC24V	6ES7 326-1BK01-0AB0	Digital input module 24 DI; DC 24 V; safety-related, with diagnostic interrupt	W	OS	C	09/ 09
SM 326 DI 24xDC24V	6ES7 326-1BK02-0AB0	Digital input module 24 DI; DC 24 V; safety-related, with diagnostic interrupt	W P	OS	C	
SM 326 DI 8xNAMUR, Ex(i)	6ES7 326-1RF00-0AB0	Digital input module 8 DI NAMUR; Ex(i), safety-related	W	OS	C	05/ 14
SM 326 DI 8xNAMUR, Ex(i)	6ES7 326-1RF01-0AB0	Digital input module 8 DI NAMUR; Ex(i), safety-related	W	OS	C	

21.8 SM DO-F

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM 326 DO 10x24VDC/2A	6ES7 326-2BF00-0AB0	Digital output module, 10 DO; DC 24 V / 2 A; safety-related,	W	OS	C	04/ 03
SM326 DO 10xDC24V/2A	6ES7 326-2BF01-0AB0	Digital output module, 10 DO; DC 24 V / 2 A; safety-related, P-switching, with diagnostic interrupt	W	OS	C [1)]	10/ 14

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM326 DO 10xDC24V/2A	6ES7 326-2BF10-0AB0	Digital output module, 10 DO; DC 24 V / 2 A; safety-related, P-switching, with diagnostic interrupt PROFIBUS DP and PROFINET with PROFIsafe V2	W P	M	C	
SM 326F DO 8xDC24V/2A	6ES7 326-2BF40-0AB0	Digital output module 8 DO; DC 24 V / 2 A; safety-related, P-M-switching, with diagnostic interrupt	W	M		09/ 09
SM 326F DO 8xDC24V/2A	6ES7 326-2BF41-0AB0	Digital output module 8 DO; DC 24 V / 2 A; safety-related, P-M-switching, with diagnostic interrupt	W P	M		

[1)] = Firmware 2.0.9 or later / previous version only by module

21.9 SM AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM331 AI 8x13Bit	6ES7 331-1KF00-0AB0	Analog input module 8 AI; 13 Bit	W	O		10/ 03
SM331 AI 8x13Bit	6ES7 331-1KF01-0AB0	Analog input module 8 AI; 13 Bit	W	O [1)]		01/ 10
SM331 AI 8x13Bit	6ES7 331-1KF02-0AB0	Analog input module 8 AI; 13 Bit	W P	O [1)]		
SM331 AI 8x14Bit	6ES7 331-7HF01-0AB0	Analog input module 8 AI; 14 Bit; High Speed, supports isochronous mode	W P	O		
SM331 AI 2x12Bit	6ES7 331-7KB01-0AB0	Analog input module 2 AI; 12 ... 14 Bit	W	O [1)]		10/ 04
SM331 AI 2x12Bit	6ES7 331-7KB02-0AB0	Analog input module 2 AI; 12 ... 14 Bit	W P SM	O [1)]		
SM331 AI 2x12Bit	6ES7 331-7KB81-0AB0	Analog input module 2 AI; 12 ... 14 Bit; extended environmental conditions	W	O		05/ 01
SM331 AI 2x12Bit	6ES7 331-7KB82-0AB0	Analog input module 2 AI; 12 ... 14 Bit; (Outdoor)	W	O		11/ 03
SM331 AI 8x12Bit	6ES7 331-7KF01-0AB0	Analog input module 8 AI; 12 ... 14 Bit	W	O [1)]		02/ 05

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM331 AI 8x12Bit	6ES7 331-7KF02-0AB0	Analog input module 8 AI; 12 ... 14 Bit	W P SM	O [1)]	M	
SM331 AI 8x16Bit	6ES7 331-7NF00-0AB0	Analog input module 8 AI; 16 Bit; 1 ... 5 V, +/- 5 V, +/- 10 V; 0 ... 20 mA, 4 ... 20 mA, +/- 20 mA	W P	O	C	
SM331 AI 8x16Bit	6ES7 331-7NF10-0AB0	Analog input module 8 AI; 16 Bit; 1 ... 5 V, +/- 5 V, +/- 10 V; 0 ... 20 mA, 4 ... 20 mA, +/- 20 mA	W P SM	O	C	
SM331 AI 6xTC	6ES7 331-7PE10-0AB0	Analog input module 6 AI TC; 16 Bit; iso. can be used for redundancy by channel	W P SM	O	C	
SM331 AI 8xRTD	6ES7 331-7PF00-0AB0	Analog input module 8 AI RTD; 16 Bit (internally 24 Bit according to the Sigma-Delta procedure); RTD: Pt 100, Pt 200, Pt 500, Pt 1000, Ni 100, Ni 120, Ni 1000, Cu 10	W	O		04/ 05
SM331 AI 8xRTD	6ES7 331-7PF01-0AB0	Analog input module 8 AI RTD; 16 Bit (internally 24 Bit according to the Sigma-Delta procedure); RTD: Pt 100, Pt 200, Pt 500, Pt 1000, Ni 100, Ni 120, Ni 1000, Cu 10	W P	O		
SM331 AI 8xTC	6ES7 331-7PF10-0AB0	Analog input module 8 AI TC; 16 Bit (internally 24 Bit according to the Sigma-Delta procedure); Thermocouples: B, E, J, K, L, N, R, S, T	W	O		07/ 05
SM331 AI 8xTC	6ES7 331-7PF11-0AB0	Analog input module 8 AI TC; 16 Bit (internally 24 Bit according to the Sigma-Delta procedure); Thermocouples: B, E, J, K, L, N, R, S, T	W P	O		
SM331 AI 4x0/4...20mA, Ex	6ES7 331-7RD00-0AB0	Analog input module 4 AI; 0/4 ... 20 mA; 15 Bit, [EEx ib]	W P SM	O	C	
SM331 AI 8xTC/4xRTD, Ex	6ES7 331-7SF00-0AB0	Analog input module 8 AI TC, 4 AI RTD; 15 Bit, [EEx ib]	W P SM	O		
SM331 AI 2x0/4..20mA HART, Ex	6ES7 331-7TB00-0AB0	Analog input module 2 AI; 0/4 ... 20 mA, with HART communication, [EEx ib]	W P SM	O		10/ 16
SM331 AI 2x0/4..20mA HART, Ex	6ES7 331-7TB10-0AB0	Analog input module 2 AI; 0/4..20mA; with HART communication, [EEx ib]	W P SM	O		

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM331 AI 8x0/4...20mA HART	6ES7 331-7TF00-0AB0	Analog input module 8 AI; 0/4 ... 20 mA,+/-20 mA with HART communication,	W	O		10/ 07
SM331 AI 8x0/4...20mA HART	6ES7 331-7TF01-0AB0 to V2.x	Analog input module 8 AI; 0/4 ... 20 mA,+/-20 mA with HART communication,	W	O	C	
SM331 AI 8x0/4...20mA HART	6ES7 331-7TF01-0AB0 as of V3.x	Analog input module 8 AI; 0/4 ... 20 mA,+/-20 mA with HART communication,	W P SM	O	C	

[1)] Module behaves as described in Chapter 9.11.1.8 "Behavior of the modules during reparameterization" point 3. of the Configuration Manual *SIMATIC Process Control System PCS 7 Engineering System (V9.1)*.

21.10 SM AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM332 AO 2x12Bit	6ES7 332-5HB01-0AB0	Analog output module 2 AO; 12 Bit	W P SM	O		
SM332 AO 2x12Bit	6ES7 332-5HB81-0AB0	Analog output module 2 AO; 12 ... 14 Bit, extended environmental conditions	W	O		11/ 03
SM332 AO 4x12Bit	6ES7 332-5HD01-0AB0	Analog output module 4 AO; 11 ... 12 Bit	W P SM	O	C	
SM332 AO 8x12Bit	6ES7 332-5HF00-0AB0	Analog output module 8 AO; 12 Bit	W P	O	C	
SM332 AO 4x0/4...20mA, Ex	6ES7 332-5RD00-0AB0	Analog output module 4 AO; 0/4 ... 20 mA; 15Bit, [EEx ib]	W P SM	O	C	
SM332 AO 2x0/4...20mA, HART, Ex	6ES7 332-5TB00-0AB0	Analog output module 2 AO; 0/4 ... 20 mA; with HART communication, [EEx ib]	W P SM	O		10/ 16
SM332 AO 2x0/4..20mA, HART; Ex	6ES7 332-5TB10-0AB0	Analog output module 2 AO; 0/4..20mA; with HART communication, [EEX ib]	W P SM	O		
SM332 AO 4x16Bit	6ES7 332-7ND00-0AB0	Analog output module 4 AO; 16 Bit	W	O		10/ 04
SM332 AO 4x16Bit	6ES7 332-7ND01-0AB0	Analog output module 4 AO; 16 Bit; supports isochronous mode	W	O		01/ 05

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM332 AO 4x16Bit	6ES7 332-7ND02-0AB0	Analog output module 4 AO; 16 Bit; supports isochronous mode	W P SM	O		
SM332 AO 8x0/4...20mA HART	6ES7 332-8TF00-0AB0	Analog output module 8 AO; 16 Bit, 0/4 ... 20 mA; with HART communication	W	O		11/ 07
SM332 AO 8x0/4...20mA HART	6ES7 332-8TF01-0AB0 to V2.x	Analog output module 8 AO; 16 Bit, 0/4 ... 20 mA; with HART communication	W	O	C	
SM332 AO 8x0/4...20mA HART	6ES7 332-8TF01-0AB0 as of V3.x	Analog output module 8 AO; 16 Bit, 0/4 ... 20 mA; with HART communication	W P SM	O	C	

21.11 SM AI-F

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM336 AI 6x13Bit	6ES7 336-1HE00-0AB0	Analog input module 6 AI; 13 Bit; with diagnostics, safety-related to SIL-3,	W	OS	C	10/ 08
SM336 AI 6 HART	6ES7 336-4GE00-0AB0	Analog input module 6 AI; 0/4 ... 20 mA; HART, PROFIsafe V2, safety-related, with diagnostic interrupt, with HART communication, FW update, redundancy	W P	M	C	

21.12 SM MTA

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
MTA 16 channels DI standard	6ES7 650-1AC10-3XX0	MTA for 16 DI; DC 24 V; for 6ES7 321-7BH01-0AB0 (product version 2 and higher)				02/ 08
MTA 16 channels DI standard	6ES7 650-1AC11-3XX0	MTA for 16 DI; DC 24 V; for 6ES7 321-7BH01-0AB0 (product version 2 and higher)				
MTA 8 channels AI standard	6ES7 650-1AA50-2XX0	MTA for 8 AI; 1 ... 5 V / 0/4 ... 20 mA; for 6ES7 331-7NF00-0AB0 (product version 5 and higher)				02/ 08

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
MTA 8 channels AI standard	6ES7 650-1AA51-2XX0	MTA for 8 AI; 1 ... 5 V / 0/4 ... 20 mA; for 6ES7 331-7NF00-0AB0 (product version 5 and higher)				02/13
MTA 8 channels AI standard	6ES 7650-1AA52-2XX0	MTA for 8 AI; 1 ... 5 V / 0/4 ... 20 mA; for 6ES7 331-7NF00-0AB0 (product version 5 and higher) and 6ES7 331-7NF10-0AB0 (product version 8 and higher)				
MTA 8 channels AI-HART standard	6ES7 650-1AA61-2XX0	MTA for 8 AI; 4 ... 20 mA; for 6ES7 331-7TF01-0AB0				
MTA 8 channels AO standard	6ES7 650-1AB50-2XX0	MTA for 8 AO; 4 ... 20 mA; for 6ES7 332-5HF00-0AB0 (product version 3 and higher)				02/08
MTA 8 channels AO standard	6ES7 650-1AB51-2XX0	MTA for 8 AO; 4 ... 20 mA; for 6ES7 332-5HF00-0AB0 (product version 3 and higher)				
MTA 8 channels AO-HART standard	6ES7 650-1AB61-2XX0	MTA for 8 AO; 0/4 ... 20 mA; for 6ES7 332-8TF01-0AB0				
MTA 8 channels TC standard	6ES7 650-1AF50-2XX0	MTA for 8 TC; for 6ES7 331-7PF10-0AB0 (product version 4 and higher) and 6ES7 331-7PF11-0AB0				02/08
MTA 8 channels TC standard	6ES7 650-1AF51-2XX0	MTA for 8 TC; for 6ES7 331-7PF10-0AB0 (product version 4 and higher) and 6ES7 331-7PF11-0AB0				
MTA 8 channels RTD standard	6ES7 650-1AG50-2XX0	MTA for 8 RTD; for 6ES7 331-7PF00-0AB0 (product version 8 and higher) and 6ES7 331-7PF01-0AB0				02/08
MTA 8 channels RTD standard	6ES7 650-1AG51-2XX0	MTA for 8 RTD; for 6ES7 331-7PF00-0AB0 (product version 8 and higher) and 6ES7 331-7PF01-0AB0				
MTA 24 channels F-DI (fail-safe)	6ES7 650-1AK10-7XX0	MTA for 24 F- DI; DC 24 V; for 6ES7 326-1BK00-0AB0 and 6ES7 326-1BK01-0AB0 (product version 1 and higher)				02/08
MTA 24 channels F-DI (fail-safe)	6ES7 650-1AK11-7XX0	MTA for 24 F- DI; DC 24 V; for 6ES7 326-1BK00-0AB0 and 6ES7 326-1BK01-0AB0 (product version 1 and higher)				
MTA 16 channels DO Standard	6ES7 650-1AD10-2XX0	MTA for 16 DO; 24 V DC / 0.5 A; for 6ES7322-8BH01-0AB0				10/17
MTA 16 channels DO Standard	6ES7 650-1AD11-2XX0	MTA for 16 DO; 24 V DC / 0.5 A; for 6ES7322-8BH10-0AB0				

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
MTA 10 channels F-DO (fail-safe)	6ES7 650-1AL10-6XX0	MTA for 10 F-DO; DC 24 V / 2 A; for 6ES7 326-2BF01-0AB0 (product version 2 and higher)				02/08
MTA 10 channels F-DO (fail-safe)	6ES7 650-1AL11-6XX0	MTA for 10 F-DO; DC 24 V / 2 A; for 6ES7 326-2BF01-0AB0 (product version 2 and higher)				
MTA 16 channels DO (relay)	6ES7 650-1AM30-3XX0	MTA for 16 DO relays; AC 120-230 V / 5 A; DC 24 V / 5 A; for 6ES7 322-8BH01-0AB0 (product version 1 and higher)				
MTA 10 channels DO (relay)	6ES7 650-1AM30-6XX0	MTA for 10 DO relays; AC 110-220 V / 5 A; DC 24 V / 5 A; for 6ES7 326-2BF01-0AB0 (product version 2 and higher)				11/07
MTA 10 channels F-DO (fail-safe, relay)	6ES7 650-1AM31-6XX0	MTA for 10 F-DO relays; AC 120-230 V / 5 A; DC 24 V / 5 A; for 6ES7 326-2BF01-0AB0 (product version 2 and higher)				
MTA 6 channels F-AI (fail-safe)	6ES7 650-1AH50-5XX0	MTA for 6 F-AI; 4 ... 20 mA; for 6ES7336-1HE00-0AB0 (product version 6 and higher)				02/08
MTA 6 channels F-AI (fail-safe)	6ES7 650-1AH51-5XX0	MTA for 6 F-AI; 4 ... 20 mA; for 6ES7336-1HE00-0AB0 (product version 6 and higher)				02/08
MTA 6 channels F-AI (fail-safe)	6ES7 650-1AH61-5XX0	MTA for 6 F-AI; 4 ... 20 mA; for 6ES7 336-1HE00-0AB0 (product version 6 and higher) for 6ES7 336-4GE00-0AB0				02/13
MTA 6 channels F-AI (fail-safe)	6ES7 650-1AH62-5XX0	MTA for 6 F-AI; 4 ... 20 mA; for 6ES7 336-4GE00-0AB0				
Redundant power monitor	6ES7 650-1BA01-0XX0	Monitoring module for redundant power supply				05/08
Redundant power monitor	6ES7 650-1BA02-0XX0	Monitoring module for redundant power supply				
5.6 V Zener diode board	6ES7 650-1BB51-0XX0	5.6 V Zener diode daughter board for F-AI MTA				10/16
6.2 V Zener diode board	6ES7 650-1BC51-0XX0	6.2 V Zener diode daughter board for F-AI MTA				10/16
FET switch adapter	6ES7 650-1BD51-0XX0	FET switch adapter				01/11

22.1 CPU as of 05/17 (as of PCS 7 V9.0)

Product name	Article No.	Brief description	Properties			
			F	C	R	T
CPU 410-5H Process automation	6ES7 410-5HX08-0AB0 V8.2.x 1)	S7 CPU; fault-tolerant and fail-safe capability; controller for all sectors of the process industry, 48 MB integrated load memory, work memory 16 MB code and 16 MB data; PROFINET IO controller, 2 PROFINET interfaces and 2 ports each; average processing time of the PCS 7 typicals 110 µs; 2x PN, 1x DP, 2x for sync-modules and 1x service;	W P	X		
CPU 410 SMART process automation	6ES7 410-5HN08-0AB0 V8.2.x 1)	S7 CPU; fault-tolerant; controller for all sectors of the process industry, 48 MB integrated load memory, work memory 4 MB code and 4 MB data; PROFINET IO controller, 2 PROFINET interfaces and 2 ports each; average processing time of the PCS 7 typicals 110 µs; 2x PN, 1x DP, 2x for sync-modules and 1x service;	W P	X		
CPU 410E Process automation	6ES7 410-5HM08-0AB0 V8.2.x 1)	S7 CPU; fault-tolerant and fail-safe capability; controller for all sectors of the process industry, up to 200 PO or 1-4 MB work memory; PROFINET IO controller, 2 PROFINET interfaces and 2 ports each; average processing time of the PCS 7 typicals 110 µs; 2x PN, 1x DP, 2x for sync-modules and 1x service;	W P	X		

1) Applicable function and communications modules with a CPU 410-5H: See Appendix B in the *SIMATIC PCS 7 Process Control System CPU 410 Process Automation* system manual

22.2 CPU as of 02/16 (as of PCS 7 V8.2)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-3 DP	6ES7 414-3XM07-0AB0 V7.0	S7 CPU; RAM 4 MB (2 MB code, 2 MB data); 2x DP and 1 slot for IF modules; routing; data record routing;	W	X		
CPU 414-3 PN/DP	6ES7 414-3EM07-0AB0 V7.0	S7 CPU; RAM 2 MB code and 2 MB data; 18.75 µs/kAW; 8KB DI/O; 64 connections; 1*DP/MPI, 1*PN and 1 slot for IF modules; routing; data record routing; PROFINET IO controller; PROFINET interface and 2 ports;	W P	X		
CPU 416-2 DP	6ES7 416-2XP07-0AB0 V7.0	S7 CPU; RAM 8 MB (4 MB code, 4 MB data); 2x DP; routing; data record routing;	W	X		
CPU 416-3 DP	6ES7 416-3XS07-0AB0 V7.0	S7 CPU; RAM 16 MB (8 MB code, 8 MB data); 2x DP and 1 slot for IF-modules; routing; data record routing;	W	X		
CPU 416-3 PN/DP	6ES7 416-3ES07-0AB0 V7.0	S7 CPU; RAM 8 MB code and 8 MB data; 12.5 µs/kAW; 16KB DI/O; 96 connections; 1*DP/MPI, 1*PN and 1 slot for IF modules; routing; data record routing; PROFINET IO controller; PROFINET interface and 2 ports;	W P	X		
CPU 417-4	6ES7 417-4XT07-0AB0 V7.0	S7 CPU; RAM 16 MB code and 16 MB data; 7.5 µs/kAW; 16KB DI/O; 120 connections; 1*DP/MPI, 1*DP and 2 slots for IF modules; routing; data record routing;	W	X		

22.3 CPU as of 09/14 (as of PCS 7 V8.1)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 410-5H process automation	6ES7 410-5HX08-0AB0 V8.1.x 1)	S7 CPU; fault-tolerant and fail-safe capability; controller for all sectors of the process industry, 48 MB integrated load memory, work memory 16 MB code and 16 MB data; PROFINET IO controller, 2 PROFINET interfaces and 2 ports each; average processing time of the PCS 7 typicals 110 µs; 16 KB DI/O; 120 connections; 2x PN, 1x DP, 2x for sync-modules and 1x service;	W P	X		
CPU 410 SMART process automation	6ES7 410-5HN08-0AB0 V8.1.x 1)	S7 CPU; fault-tolerant; controller for all sectors of the process industry, 48 MB integrated load memory, work memory 4 MB code and 4 MB data; PROFINET IO controller, 2 PROFINET interfaces and 2 ports each; average processing time of the PCS 7 typicals 110 µs; 16 KB DI/O; 120 connections; 2x PN, 1x DP, 2x for sync-modules and 1x service;	W P	X		

1) Applicable function and communications modules with a CPU 410-5H: See Appendix B in the *SIMATIC PCS 7 Process Control System CPU 410 Process Automation* system manual

22.4 CPU as of 06/13 (as of PCS 7 V8.0.2)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 410-5H process automation	6ES7 410-5HX08-0AB0 V8.0.x 1)	S7 CPU; fault-tolerant and fail-safe capability; controller for all sectors of the process industry, 48 MB integrated load memory, work memory 16 MB code and 16 MB data; PROFINET IO controller, PROFINET interface and 2 ports; Average processing time of the PCS 7 typicals 110 µs; 16 KB DI/O; 120 connections; 1 PN, 1 DP, 2 for sync-modules and 1 service;	W P	X		

1) Applicable function and communications modules with a CPU 410-5H: See Appendix B in the *SIMATIC PCS 7 Process Control System CPU 410 Process Automation* system manual

22.5 H-CPU as of 12/11 (as of PCS 7 V8.0)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 412-5H PN/DP	6ES7 412-5HK06-0AB0 V6.x	S7 CPU; fault-tolerant and fail-safe capability; work memory 0.5 MB code and 0.5 MB data; 0.031 ms/1000 instructions; 8 KB DI/O; 48 connections; 1 DP / MPI, 1 DP, 1 PN and 2 slots for H-sync modules;	W P	X		
CPU 414-5H PN/DP	6ES7 414-5HM06-0AB0 V6.x	S7 CPU; fault-tolerant and fail-safe capability; work memory 2 MB code and 2 MB data; 0.019 ms/1000 instructions; 8 KB DI/O; 64 connections; 1 DP / MPI, 1 DP, 1 PN and 2 slots for H-sync modules;	W P	X		
CPU 416-5H PN/DP	6ES7 416-5HS06-0AB0 V6.x	S7 CPU; fault-tolerant and fail-safe capability; work memory 6 MB code and 10 MB data; 0.012 ms/1000 instructions; 16 KB DI/O; 96 connections; 1 DP / MPI, 1 DP, 1 PN and 2 slots for H-sync modules;	W P	X		
CPU 417-5H PN/DP	6ES7 417-5HT06-0AB0 V6.x	S7 CPU; fault-tolerant and fail-safe capability; work memory 16 MB code and 16 MB data; 0.0075 ms/1000 instructions; 16 KB DI/O; 120 connections; 1 DP / MPI, 1 DP, 1PN and 2 slots for H-sync modules;	W P	X		

22.6 CPU as of 08/10 (as of PCS 7 V7.1.2)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-3 PN/DP	6ES7 414-3EM06-0AB0 V6.x	S7 CPU; work memory 2.0 MB code and 2.0 MB data; 0.045 ms/1000 instructions; 8KB DI/O; 64 connections; 1*DP/MPI, 1*PN and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing; integrated data record gateway;	W P	X		10/ 16
CPU 416-3 PN/DP	6ES7 416-3ES06-0AB0 V6.x	S7 CPU; work memory 8.0 MB code and 8.0 MB data; 0.030 ms/1000 instructions; 16KB DI/O; 96 connections; 1*DP/MPI, 1*PN and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing; integrated data record gateway;	W P	X		10/ 16

22.7 H-CPU as of 09/07 (as of PCS 7 V7.0.1)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 412-3H	6ES7 412-3HJ14-0AB0 V4.5	S7 CPU; fault-tolerant and fail-safe capability; work memory 0.5 MB code and 0.25 MB data; 0.075 ms/1000 instructions; 8 KB DI/O; 16 connections; 1 DP / MPI, 1 DP and 2 slots for H-sync modules;	W	X		02/ 17
CPU 414-4H	6ES7 414-4HM14-0AB0 V4.5	S7 CPU; fault-tolerant and fail-safe capability; work memory 1.4 MB code and 1.4 MB data; 0.045 ms/1000 instructions; 8 KB DI/O; 32 connections; 1 DP / MPI, 1 DP and 2 slots for H-sync modules;	W	X		02/ 17
CPU 417-4H	6ES7 417-4HT14-0AB0 V4.5	S7 CPU; fault-tolerant and fail-safe capability; work memory 15 MB code and 15 MB data; 0.018 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DP and 2 slots for H-sync modules;	W	X		02/ 17

22.8 CPU as of 12/06 (as of PCS 7 V7.0)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-3 DP	6ES7 414-3XM05-0AB0 V5.0	S7 CPU; work memory 1.4 MB code and 1.4 MB data; 0.045 ms/1000 instructions; 8 KBDI/O; 32 connections; 1 DP / MPI, 1 DP and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		02/16
CPU 414-3 DP	6ES7 414-3XM05-0AB0 V5.1 .. V5.3.x	S7 CPU; work memory 1.4 MB code and 1.4 MB data; 0.045 ms/1000 instructions; 8 KB DI/O; 32 connections; 1 DP / MPI, 1 DP and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing; integrated data record gateway	W	X		02/16
CPU 414-3 PN/DP	6ES7 414-3EM05-0AB0 V5.0 1)	S7 CPU; work memory 1.4 MB code and 1.4 MB data; 0.045 ms/1000 instructions; 8 KB DI/O; 32 connections; 1 DP / MPI, 1 PN and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		10/11
CPU 414-3 PN/DP	6ES7 414-3EM05-0AB0 V5.1 .. V5.3.x 1)	S7 CPU; work memory 1.4 MB code and 1.4 MB data; 0.045 ms/1000 instructions; 8 KB DI/O; 32 connections; 1 DP / MPI, 1 PN and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing; integrated data record gateway	W	X		10/11
CPU 416-2 DP	6ES7 416-2XN05-0AB0 V5.0	S7 CPU; work memory 2.8 MB code and 2.8 MB data; 0.030 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DP; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		02/16
CPU 416-2 DP	6ES7 416-2XN05-0AB0 V5.1 .. V5.3.x	S7 CPU; work memory 2.8 MB code and 2.8 MB data; 0.030 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DP; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing; integrated data record gateway	W	X		02/16

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 416-3 DP	6ES7 416-3XR05-0AB0 V5.0	S7 CPU; work memory 5.6 MB code and 5.6 MB data; 0.030 ms/1000 instructions; 16 KBDI/O; 64 connections; 1 DP / MPI, 1 DP; and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		02/ 16
CPU 416-3 DP	6ES7 416-3XR05-0AB0 V5.1 .. V5.3.x	S7 CPU; work memory 5.6 MB code and 5.6 MB data; 0.030 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DP; and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing; integrated data record gateway	W	X		02/ 16
CPU 416-3 PN/DP	6ES7 416-3ER05-0AB0 V5.0 [1]	S7 CPU; work memory 5.6 MB code and 5.6 MB data; 0.030 ms/1000 instructions; 16 KBDI/O; 64 connections; 1 DP / MPI, 1 PN and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		10/ 11
CPU 416-3 PN/DP	6ES7 416-3ER05-0AB0 V5.1 .. V5.3.x [1]	S7 CPU; work memory 5.6 MB code and 5.6 MB data; 0.030 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 PN and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing; integrated data record gateway	W	X		10/ 11
CPU 417-4 DP	6ES7 417-4XT05-0AB0 V5.0	S7 CPU; work memory 15 MB code and 15 MB data; 0.018 ms/1000 instructions; 16 KBDI/O; 64 connections; 1 DP / MPI, 1 DP and 2 slots for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		10/ 16
CPU 417-4 DP	6ES7 417-4XT05-0AB0 V5.1 .. V5.3.x	S7 CPU; work memory 15 MB code and 15 MB data; 0.018 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DP and 2 slots for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing; integrated data record gateway	W	X		10/ 16

[1] The internal PROFINET interface is not released for use with PCS 7.

22.9 H-CPU as of 08/04 (as of PCS 7 V6.1)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-4H	6ES7 414-4HJ04-0AB0 V4.x	S7 CPU; high availability and fail-safe capability; work memory 0.7 MB code and 0.7 MB data; 0.08 ms/1000 instructions; 8 KB DI/O; 32 connections; 1 DP / MPI, 1 DP and 2 slots for H-sync modules	W	X		01/10
CPU 417-4H	6ES7 417-4HL04-0AB0 V4.x	S7 CPU; high availability and fail-safe capability; work memory 10 MB code and 10 MB data; 0.03 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DP and 2 slots for H-sync modules	W	X		01/10

22.10 CPU as of 08/04 (as of PCS 7 V6.1)

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-3	6ES7 414-3XJ04-0AB0 V4.x	S7 CPU; work memory 0.7 MB code and 0.7 MB data; 0.06 ms/1000 instructions.; 8 KB DI/O; 32 connections; 1 DP / MPI, 1 DP and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		03/07
CPU 416-2	6ES7 416-2XK04-0AB0 V4.x	S7 CPU; work memory 1.4 MB code and 1.4 MB data; 0.04 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DP; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		03/07

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 416-3	6ES7 416-3XL04-0AB0 V4.x	S7 CPU; work memory 2.8 MB code and 2.8 MB data; 0.04 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DP and 1 slot for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		03/07
CPU 417-4	6ES7 417-4XL04-0AB0 V4.x	S7 CPU; work memory 10 MB code and 10 MB data; 0.03 ms/1000 instructions; 16 KB DI/O; 64 connections; 1 DP / MPI, 1 DPand 2 slots for IF-modules; send and receive capability for direct data exchange; constant bus cycle time and isochronous processing; routing	W	X		03/07

22.11 H-CPU as of 04/99 (as of PCS 7 V5.0)

Note

The extended driver design (PCS 7 V5.2) can be used with FW V3.0 and higher.

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-4H	6ES7 414-4HJ00-0AB0 V2.1.1; V2.1.2	S7 CPU; high availability; F-capability, work memory 384 KB code and 384 KB data; 0.1 ms/kA; 8 KB DI/O; 32 connections; 2 DP / MPI and 2 slots for H-sync modules	W			01/06
CPU 414-4H	6ES7 414-4HJ00-0AB0 V3.0	S7 CPU; high availability; F-capability, work memory 384 KB code and 384 KB data; 0.1 ms/kA; 8 KB DI/O; 32 connections; 2 DP / MPI and 2 slots for H-sync modules, direct data exchange, DP V1	W			01/06
CPU 414-4H	6ES7 414-4HJ00-0AB0 V3.1	S7 CPU; high availability; F-capability, work memory 384 KB code and 384 KB data; 0.1 ms/kA; 8 KB DI/O; 32 connections; 2 DP / MPI and 2 slots for H-sync modules, direct data exchange, DP V1	W	X		01/06
CPU 417-4H	6ES7 417-4HL00-0AB0 V2.0; V2.1.x	S7 CPU; high availability, work memory 2 MB code and 2 MB data; (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP MPI and 2 slots for IF modules, routing	W			09/00

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 417-4H	6ES7 417-4HL01-0AB0 V2.1	S7 CPU; high availability, work memory 2 MB code and 2 MB data; (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 2 slots for H-sync modules, routing	W			01/06
CPU 417-4H	6ES7 417-4HL01-0AB0 V2.1.1; V2.1.2	S7 CPU; high availability, work memory 2 MB code and 2 MB data; (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 2 slots for H-sync modules, routing	W			01/06
CPU 417-4H	6ES7 417-4HL01-0AB0 V3.0	S7 CPU; high availability, F-capability, work memory 2 MB code and 2 MB data; (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 2 slots for H-sync modules, direct data exchange, routing, DP V1	W			01/06
CPU 417-4H	6ES7 417-4HL01-0AB0 V3.1	S7 CPU; high availability, F-capability, work memory 2 MB code and 2 MB data; (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 2 slots for H-sync modules, direct data exchange, routing, DP V1	W	X		01/06

22.12 CPU as of 04/99 (as of PCS 7 V5.0)

Note

The extended driver design (PCS 7 V5.2) can be used with FW V3.0 and higher.

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-3	6ES7 414-3XJ00-0AB0 V1.1	S7 CPU; work memory 384 KB code and 384 KB data; 0.1 ms/kA; 8 KB DI/O; 32 connections; 2 DP / MPI and 1 slot for IF modules; constant bus cycle	W			01/05
CPU 414-3	6ES7 414-3XJ00-0AB0 V1.2	S7 CPU; work memory 384 KB code and 384 KB data, 0.1 ms/kA; 8 KB DI/O; 32 connections, 2 DP / MPI and 1 slot for IF modules; constant bus cycle, direct data exchange; routing	W			01/05

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-3	6ES7 414-3XJ00-0AB0 V3.0	S7 CPU; work memory 384 KB code and 384 KB data, 0.1 ms/kA; 8 KB DI/O; 32 connections; 2 DP / MPI and 1 slot for IF modules; direct data exchange, constant bus cycle; routing; DP V1	W			01/05
CPU 414-3	6ES7 414-3XJ00-0AB0 V3.1	S7 CPU; work memory 384 KB code and 384 KB data; 0.1 ms/kA; 8 KB DI/O; 32 connections; 2 DP / MPIand 1 slot for IF modules; direct data exchange, constant bus cycle; routing; DP V1	W	X		01/05
CPU 416-2	6ES7 416-2XK02-0AB0 V1.1	S7 CPU; work memory 0.8 MB code and 0.8 MB data; 0.08 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI; constant bus cycle	W			01/05
CPU 416-2	6ES7 416-2XK02-0AB0 V1.2	S7 CPU; work memory 0.8 MB code and 0.8 MB data; 0.08 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI; constant bus cycle, direct data exchange; routing	W			01/05
CPU 416-2	6ES7 416-2XK02-0AB0 V3.0	S7 CPU; work memory 0.8 MB code and 0.8 MB data; 0.08 ms/kA; 16 KB DI/O; 64 connections; 2 DP/MPI; direct data exchange, constant bus cycle; routing; DPV1	W			01/05
CPU 416-2	6ES7 416-2XK02-0AB0 V3.1	S7 CPU; work memory 0.8 MB code and 0.8 MB data; 0.08 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI direct data exchange, constant bus cycle; routing; DPV1	W	X		01/05
CPU 416-3	6ES7 416-3XL00-0AB0 V1.1	S7 CPU; work memory 1.6 MB code and 1.6 MB data, 0.08 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 1 slot for IF modules; constant bus cycle	W			01/05
CPU 416-3	6ES7 416-3XL00-0AB0 V1.2	S7 CPU; work memory 1.6 MB code and 1.6 MB data; 0.08 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 1 slot for IF modules; constant bus cycle, direct data exchange; routing	W			01/05
CPU 416-3	6ES7 416-3XL00-0AB0 V3.0	S7 CPU; work memory 1.6 MB code and 1.6 MB data; 0.08 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 1 slot for IF modules; direct data exchange, constant bus cycle; routing; DP V1	W			01/05
CPU 416-3	6ES7 416-3XL00-0AB0 V3.1	S7 CPU; work memory 1.6 MB code and 1.6 MB data; 0.08 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 1 slot for IF modules; direct data exchange, constant bus cycle; routing; DP V1	W	X		01/05

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 417-4	6ES7 417-4XL00-0AB0 V1.1	S7 CPU; work memory 2 MB code and 2 MB data, (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 2 slots for IF modules; receive capability for direct data exchange; constant bus cycle; routing	W			01/05
CPU 417-4	6ES7 417-4XL00-0AB0 V1.2.0	S7 CPU; work memory 2 MB code and 2 MB data, (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 2 slots for IF modules; constant bus cycle/direct data exchange; routing	W			01/05
CPU 417-4	6ES7 417-4XL00-0AB0 V3.0	S7 CPU; work memory 2 MB code and 2 MB data, (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 2 slots for IF modules; receive capability for direct data exchange, constant bus cycle, routing, DP V1	W			01/05
CPU 417-4	6ES7 417-4XL00-0AB0 V3.1	S7 CPU; work memory 2 MB code and 2 MB data, (can be extended to up to 20 MB); 0.1 ms/kA; 16 KB DI/O; 64 connections; 2 DP / MPI and 2 slots for IF modules; receive capability for direct data exchange, constant bus cycle, routing, DP V1	W	X		01/05

22.13 CPU prior to 04/99 (up to PCS 7 V4.02)

Note

CPUs of this generation are only supported by driver designs up to PCS 7 V4.02.
Upgrading to driver designs of PCS 7 V5.0 or later is not possible.

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 414-2 DP	6ES7 414-2XJ00-0AB0	S7 CPU; 384 KB work memory, 0.1 ms/kA, 8 KB DI/O, 32 connections, MPI and PROFIBUS DP connection	W			04/98
CPU 414-2 DP	6ES7 414-2XJ01-0AB0	S7 CPU; work memory 384 KB, 0.1 ms/kA, 8 KB DI/O, 32 connections, MPI and PROFIBUS DP connection	W			03/00

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
CPU 416-2 DP	6ES7 416-2XK00-0AB0	S7 CPU; work memory 0.8 MB, 0.08 ms/kA, 16 KB DI/O, 64 connections, MPI and PROFIBUS DP connection	W			04/98
CPU 416-2 DP	6ES7 416-2XK01-0AB0	S7 CPU; work memory 0.8 MB, 0.08 ms/kA, 16 KB DI/O, 64 connections, MPI and PROFIBUS DP connection	W			02/01
CPU 416-2 DP	6ES7 416-2XL00-0AB0	S7 CPU; work memory 1.6 MB, 0.08 ms/kA, 16 KB DI/O, 64 connections, MPI and PROFIBUS DP connection	W			05/98
CPU 416-2 DP	6ES7 416-2XL01-0AB0	S7 CPU; work memory 1.6 MB, 0.08 ms/kA, 16 KB DI/O, 64 connections, MPI and PROFIBUS DP connection	W			02/01

22.14 CP Ethernet

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CP 443-1	6GK7 443-1BX00-0XE0	S7 CP for Industrial Ethernet; with SEND-RECEIVE interface, S7 communication				02/03
CP 443-1 ISO	6GK7 443-1BX01-0XE0	S7 CP for Industrial Ethernet; with SEND-RECEIVE interface, S7 communication, routing, module replacement without programming device				02/03
CP 443-1 TCP	6GK7 443-1EX01-0XE0	S7 CP for Industrial Ethernet; with TCP/IP, with SEND-RECEIVE interface, S7 communication, routing, module replacement without programming device				02/03
CP 443-1	6GK7 443-1EX02-0XE0 V5.2	S7 CP for Industrial Ethernet; ISO and TCP/IP; with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device				02/03
CP 443-1	6GK7 443-1EX10-0XE0 V1.0	S7 CP for Industrial Ethernet; ISO and TCP/IP; with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device, 10/100 MBit fast send/receive				01/01
CP 443-1	6GK7 443-1EX10-0XE0 V2.x	S7 CP for Industrial Ethernet; ISO and TCP/IP; with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device, 10/100 MBit fast send/receive				01/01

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CP 443-1	6GK7 443-1EX11-0XE0 V1.1	S7 CP for Industrial Ethernet; ISO and TCP/IP; with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device, 10/100 MBit				10/ 09
CP 443-1	6GK7 443-1EX11-0XE0 V2.x	S7 CP for Industrial Ethernet ISO and TCP/IP; with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device, 10/100 MBit, NTP, fixed MAC address				10/ 09
CP 443-1	6GK7 443-1EX20-0XE0 V2.x	S7 CP for Industrial Ethernet ISO and TCP/IP; 2-port switch with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device, 10/100 MBit, NTP, fixed MAC address	W			10/ 15
CP 443-1	6GK7 443-1EX30-0XE0 V3.x	S7 CP for Industrial Ethernet ISO and TCP/IP; Profinet IO controller; 2-port switch with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device, 10/100 MBit, NTP, fixed MAC address	W P			
CP 443-1	6GK7 443-1EX30-0XE1 V3.x	S7 CP for Industrial Ethernet ISO and TCP/IP; Profinet IO controller; 2-port switch with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device, 10/100 MBit, NTP, fixed MAC address; conformal coating	W P			
CP 443-1 Advanced	6GK7 443-1GX30-0XE0 V3.x	S7 CP for Industrial Ethernet ISO and TCP/IP; 5-port switch with SEND-RECEIVE and FETCH-WRITE interface, long data, UDP, TCP, S7 functions, routing, module replacement without programming device, 10/100/1000 MBit, NTP, fixed MAC address	W			

22.15 CP PROFIBUS

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CP 443-5 Extended	6GK7 443-5DX01-0XE0	PROFIBUS CP with PROFIBUS DP; SEND-RECEIVE interface, FMS and S7 communication; sync/freeze				10/ 01
CP 443-5 Extended	6GK7 443-5DX02-0XE0 V3.x	PROFIBUS CP: DP master; with sync/freeze and redundancy, direct slave data exchange, equidistance, SEND-RECEIVE interface, S7 functions, time, programming device routing, data record routing				08/ 01

Product name	Article no. Firmware version	Brief description	Properties (Page 141)			
			F	C	R	T
CP 443-5 Extended	6GK7 443-5DX03-0XE0 V4.0	PROFIBUS CP: DP master; with sync/freeze and redundancy, direct data exchange, equidistance, SEND-RECEIVE interface, S7 functions, time synchronization, routing, data record routing, DP V1				05/05
CP 443-5 Extended	6GK7 443-5DX03-0XE0 V5.x	PROFIBUS CP: DP master; with sync/freeze and redundancy, direct data exchange, equidistance, SEND-RECEIVE interface, S7 functions, time synchronization, routing, data record routing, DP V1, CiR		X		05/05
CP 443-5 Extended	6GK7 443-5DX04-0XE0 V6.x	PROFIBUS CP: DP master; with sync/freeze and redundancy, direct data exchange, equidistance, SEND-RECEIVE interface, S7 communication, time synchronization, routing, data record routing, DP V1, CiR	W	X		09/11
CP 443-5 Extended	6GK7 443-5DX05-0XE0 V7.x	PROFIBUS CP: DP master; with sync/freeze and redundancy, direct data exchange, equidistance, SEND-RECEIVE interface, S7 communication, time synchronization, routing, data record routing, DP V1, CiR	W	X		
CP 443-5 Extended	6GK7 443-5DX05-0XE1 V7.x	PROFIBUS CP: DP master; with sync/freeze and redundancy, direct data exchange, equidistance, SEND-RECEIVE interface, S7 communication, time synchronization, routing, data record routing, DP V1, CiR; conformal coating	W	X		

22.16 IM

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
IM 460-0	6ES7 460-0AA00-0AB0	Send interface module, 3 m, without voltage transmission, with K bus				12/01
IM 460-0	6ES7 460-0AA01-0AB0	Send interface module for central coupling up to 3 m, without 5 V voltage transmission, with K bus	W			
IM 460-1	6ES7 460-1BA00-0AB0	Send interface module, 1.5 m; with voltage transmission, without K bus				12/01
IM 460-1	6ES7 460-1BA01-0AB0	Send interface module for central coupling up to 1.5 m; with voltage transmission, without K bus	W			
IM 460-3	6ES7 460-3AA00-0AB0	Send interface module, 100 m; without voltage transmission, with K bus				12/01

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
IM 460-3	6ES7 460-3AA01-0AB0	Send interface module, 100 m; without voltage transmission, with K bus	W			
IM 460-4	6ES7 460-4AA01-0AB0	Send interface module, 600 m; without voltage transmission, without K bus	W			10/16
IM 461-0	6ES7 461-0AA00-0AA0	Receive interface module for central coupling up to 3 m; without voltage transmission, with K bus				12/01
IM 461-0	6ES7 461-0AA01-0AA0	Receive interface module for central coupling up to 3 m; without voltage transmission, with K bus	W			
IM 461-1	6ES7 461-1BA00-0AA0	Receive interface module, 1.5 m; with 5V voltage transmission, without K bus				12/01
IM 461-1	6ES7 461-1BA01-0AA0	Receive interface module for central coupling up to 1.5 m; with voltage transmission, without K bus	W			
IM 461-3	6ES7 461-3AA00-0AA0	Receive interface module, 100 m; without voltage transmission, with K bus				12/01
IM 461-3	6ES7 461-3AA01-0AA0	Receive interface module, 100 m; without voltage transmission, with K bus	W			
IM 461-4	6ES7 461-4AA01-0AA0	Receive interface module, 600 m; without voltage transmission, without K bus	W			10/16
IM 463-2	6ES7 463-2AA00-0AA0	Send interface module, 600 m; for connecting S5 expansion unit with IM 314				03/17

22.17 PS

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PS 405 10A	6ES7 405-0KA00-0AA0	Power supply DC 24 V / 10 A	W			02/01
PS 405 10A	6ES7 405-0KA01-0AA0	Power supply DC 24 V / 10 A	W			03/05
PS 405 10A	6ES7 405-0KA02-0AA0	Power supply DC 24 V / 10 A; ATEX certification	W			
PS 405 20A	6ES7 405-0RA01-0AA0	Power supply DC 24 V / 10 A	W			10/07
PS 405 20A	6ES7 405-0RA02-0AA0	Power supply DC 24 V / 10 A; ATEX certification	W			
PS 405 10A	6ES7 405-0KR00-0AA0	Power supply DC 24 V / 10 A; redundant power supply	W			09/06
PS 405 10A	6ES7 405-0KR02-0AA0	Power supply DC 24 V / 10 A; redundant power supply, ATEX certification	W			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
PS 405 10A	6ES7 405-0KR02-0AA1	Power supply DC 24 V / 10 A; redundant power supply, ATEX certification, variant with protective coating	W			
PS 405 4A	6ES7 405-0DA02-0AA0	Power supply DC 24/48/60 V, DC 5 V / 4 A, ATEX certification	W			
PS 405 4A	6ES7 405-0DA02-0AA1	Power supply DC 24/48/60 V; DC 5 V / 4 A, ATEX certification, variant with protective coating	W			
PS 407 10A	6ES7 407-0KA00-0AA0	Power supply AC 120 / 230 V / 10 A	W			03/99
PS 407 10A	6ES7 407-0KA01-0AA0	Power supply AC 120 / 230 V / 10 A	W			02/07
PS 407 10A	6ES7 407-0KA02-0AA0	Power supply AC 120 / 230 V / 10 A	W			
PS 407 20A	6ES7 407-0RA01-0AA0	Power supply AC 120 / 230 V / 20 A	W			09/06
PS 407 20A	6ES7 407-0RA02-0AA0	Power supply AC 120 / 230 V / 20 A	W			
PS 407 10A	6ES7 407-0KR00-0AA0	Power supply AC 120 / 230 V / 10 A; redundant power supply	W			09/06
PS 407 10A	6ES7 407-0KR02-0AA0	Power supply AC 120 / 230 V / 10 A; redundant power supply	W			
PS 407 10A	6ES7 407-0KR02-0AA1	Power supply AC 120 / 230 V;/ 10 A; redundant power supply, variant with protective coating	W			
PS 407 4A	6ES7 407-0DA02-0AA0	Power supply 4 A, UC 120/230 V, DC 5 V/4 A	W			
PS 407 4A	6ES7 407-0DA02-0AA1	Power supply 4 A, UC 120/230 V, DC 5 V/4 A; variant with protective coating	W			

22.18 Racks

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
UR2	6ES7 400-1JA00-0AA0	Universal rack; 9 slots, not suitable for power supply modules in redundant operation	W			01/98
UR2	6ES7 400-1JA01-0AA0	Universal rack; 9 slots	W			
UR2 ALU	6ES7 400-1JA11-0AA0	Universal aluminum rack; 9 slots	W			
UR2 ALU	6ES7 400-1JA11-0AA1	Universal aluminum rack; 9slots, variant with protective coating	W			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
UR1	6ES7 400-1TA00-0AA0	Universal rack; 18 slots, not suitable for power supply modules in redundant operation	W			08/98
UR1	6ES7 400-1TA01-0AA0	Universal rack; 18 slots	W			
UR1 ALU	6ES7 400-1TA11-0AA0	Universal aluminum rack; 18slots	W			
UR2-H	6ES7 400-2JA00-0AA0	Central rack; 18 slots, 2 segments (9 + 9), mainly for H-systems	W			
UR2-H ALU	6ES7 400-2JA10-0AA0	Central aluminum rack; 18 slots, 2 segments (9 + 9), mainly for H systems	W			
UR2-H ALU	6ES7 400-2JA10-0AA1	Central aluminum rack; 18slots, 2 segments (9 + 9), mainly for H systems, variant with protective coating	W			
CR3	6ES7 401-1DA01-0AA0	Central rack; 4 slots	W			
CR3	6ES7 401-1DA01-0AA1	Central rack; 4slots, variant with protective coating	W			

22.19 SM DI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM 421 DI 32xDC 24V	6ES7 421-1BL00-0AA0	Digital input module 32 DI; DC 24 V; grouping 32	W			10/04
SM 421 DI 32xDC 24V	6ES7 421-1BL01-0AA0	Digital input module 32 DI; DC 24 V; grouping 32	W			
SM 421 DI 32xAC 120V	6ES7 421-1EL00-0AA0	Digital input module 32 DI; UC 120 V; grouping 8	W			
SM 421 DI 16xUC 120/230V	6ES7 421-1FH00-0AA0	Digital input module 16 DI; UC 120 / 230 V; grouping 4	W			08/02
SM 421 DI 16xUC 120/230V	6ES7 421-1FH20-0AA0	Digital input module 16 DI; UC 120 / 230 V; grouping 4, input characteristic curve according to IEC 1131, type 2	W			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM 421 DI 16xDC 24V	6ES7 421-7BH00-0AB0	Digital input module 16 DI; DC 24 V; grouping 1, hardware and diagnostic interrupts, assignable substitute values	W			10/04
SM 421 DI 16xDC 24V	6ES7 421-7BH01-0AB0	Digital input module 16 DI; DC 24 V; grouping 8, hardware and diagnostic interrupts, assignable substitute values	W			
SM421 DI 16xUC 24/60V Alarm	6ES7 421-7DH00-0AB0	Digital input module 16 DI; UC 24 ... 60V; grouping 1, hardware and diagnostic interrupts	W			
SM421 DI 16xAC 120V	6ES7 421-5EH00-0AA0	Digital input module 16 DI; AC 120 V; grouping 1, input characteristic curve according to IEC 1131, type 2	W			10/04

22.20 SM DO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM 422 DO 16x DC 24V/2A	6ES7 422-1BH10-0AA0	Digital output module 16 DO; DC 24 V / 2 A; grouping 8	W			10/04
SM 422 DO 16x DC 24V/2A	6ES7 422-1BH11-0AA0	Digital output module 16 DO; DC 24 V / 2 A; grouping 8	W			
SM 422 DO 32x DC 24V/0,5A	6ES7 422-1BL00-0AA0	Digital output module 32 DO; DC 24 V / 0.5 A; grouping 32	W			
SM 422 DO 8x AC 120/230/5A	6ES7 422-1FF00-0AA0	Digital output module 8 DO; AC 120 / 230 V / 5 A; grouping 1	W			10/04
SM 422 DO 16x AC 120/230/2A	6ES7 422-1FH00-0AA0	Digital output module 16 DO; AC 120 / 230 V / 2 A; grouping 4	W			
SM 422 DO 16x AC 230V/5A Rel.	6ES7 422-1HH00-0AA0	Digital output module 16 DO relays; AC 230 V, DC 60 V / 5 A; grouping 4	W			
SM 422 DO 32x DC 24V/0.5A	6ES7 422-7BL00-0AB0	Digital output module 32 DO; DC 24 V / 0.5 A; grouping8, diagnostics, assignable substitute values	W			

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM 422 DO 16x AC 120V/2A	6ES7 422-5EH00-0AB0	Digital output module 16 DO; AC 120 V / 2 A; diagnostics	W			10/ 04
SM 422 DO 16x DC 20-125V/1.5A	6ES7 422-5EH10-0AB0	Digital output module 16 DO; DC 20 ... 125 V / 1.5 A; grouping 8, diagnostics	W			10/ 04

22.21 SM AI

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM 431 AI 16x13Bit	6ES7 431-0HH00-0AB0	Analog input module 16 AI; 13 Bit; integration time 16.7 / 20 ms	W			
SM 431 AI 8 x 13Bit	6ES7 431-1KF00-0AB0	Analog input module 8 AI; 12 + 1 Bit; integration time 16.7 / 20 ms	W			
SM 431 AI 8 x 14Bit	6ES7 431-1KF10-0AB0	Analog input module 8 AI; 13 + 1 Bit; integration time 16.7 / 20 ms; linearization (RTD / TC)	W			
SM 431 AI 8 x 14Bit	6ES7 431-1KF20-0AB0	Analog input module 8 AI; 13 + 1 Bit; conversion time 10 µs	W			
SM 431 AI 16 x 16Bit	6ES7 431-7QH00-0AB0	Analog input module 16 AI; 15 + 1 Bit; integration time 16.7 / 20 ms; linearization (RTD / TC), diagnostics	W			
SM 431 AI 8 x 16Bit	6ES7 431-7KF00-0AB0	Analog input module 8 "TC / U" by channel Isol.	W			
SM 431 AI 8 x 16Bit	6ES7 431-7KF10-0AB0	Analog input module 8 "RTD"; 16 -bit	W			

22.22 SM AO

Product name	Article no.	Brief description	Properties (Page 141)			
			F	C	R	T
SM432 AO 8 x 13Bit	6ES7 432-1HF00-0AB0	Analog output module 8 AO; 13 Bit; conversion time420 µs, 0 ... 10 V / 0 ... 20 mA	W			

SIPLUS modules

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You can find compatible SIPLUS versions of the modules which have been released for PCS 7 in this documentation.

Engineering note

You will not find any SIPLUS modules in the PCS 7 hardware catalog.

- Configure the modules available in the hardware catalog.
- Install the compatible SIPLUS versions of the modules available in the hardware catalog.

Appendix

A

A.1 Properties

Properties in the module list

Column	Meaning of column	Identifier	Meanings
F	Functions	P	Component has been released for PROFINET
		W	Module wizard is supported
		Y	Component can be installed behind the Y-Link
		SM	Component is released for use behind the IM 650-8
C	CiR support	X	Station can be installed and removed with CiR
		S	The station can be re-parameterized "online" and installed and removed with CiR
		M	Module can be installed and removed with CiR
		O	The module can be re-parameterized "online" and installed and removed with CiR
		OS	The module can be re-parameterized "online" only in standard mode and installed and removed with CiR
R	Red. I/Os	X	Component is supported
		A	Redundant connection is possible
		M	By module
		G	By group
		C	By channel
T	Discontinuation		On specified date (month/year)