SIEMENS

Data sheet

6GK7542-6UX00-0XE0

Product type designation



CP 1542SP-1

Communications processor CP 1542SP-1 for connection of an SIMATIC S7-ET 200SP to Industrial Ethernet; open IE communication (TCP/IP, ISO-on-TCP, UDP), PG/OP, S7 routing, IP broadcast/multicast, SNMPV1, DHCP, Email, IPV4/IPV6, time-of-day synchronization via NTP, access to web server of CPU, BusAdapters required

Transfer rate	
Transfer rate	
• at the 1st interface	10 100 Mbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	2
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	via ET 200SP bus adapter (RJ45, FC, SCRJ), integrated switch
0 1 1 1 1	
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage	24 V
Supply voltage	19.2 28.8 V
Power loss [W]	6 W
Ambient conditions	
Ambient temperature	
 for vertical installation / during operation 	0 50 °C

 for horizontally arranged busbars / during operation 	0 60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity	
 at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP20

Design, dimensions and weight		
Width	60 mm	
Height	117 mm	
Depth	74 mm	
Net weight	0.18 kg	
Mounting type		
• 35 mm DIN rail mounting	Yes	

Product features, product functions, product components / general

Number of units

• per CPU / maximum

2 CPs can be pluged in per CPU, simultaneous operation with BA Note Send and CM DP is possible

Performance data / open communication

Number of possible connections / for open communication

32 • by means of T blocks / maximum

Amount of data

• as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum

65536 byte

Performance data / S7 communication

Number of possible connections / for S7

communication

• maximum

16 • with OP connections / maximum

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode

32

16

Product functions / management, configuration, engineering

Product function / MIB support	Yes	
Protocol / is supported		
• SNMP v1	Yes	
• SNMP v3	No	

• DCP	Yes
• LLDP	Yes
Configuration software	
• required	STEP 7 Professional V14 (TIA Portal) or higher
Identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher-level designation/location 	Yes
designation	

Product functions / Diagnostics	
Product function / Web-based diagnostics	Yes; via ET 200SP CPU
Product functions / Security	
Product function	
Blocking of communication via physical ports	Yes
Product functions / time	
Product function / SICLOCK support	Yes
Product function / pass on time synchronization	No
Protocol / is supported	
• NTP	Yes
• NTP (secure)	No
time synchronization	

Yes

Further information / Internet-Links

• from NTP-server

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• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

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Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Thirdparty products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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