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	'
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
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	-30 +50 °C

 for horizontally arranged busbars / during operation 	-30 +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 weights	

Design, dimensions and weights	
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

Note

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

Performance data / open communication
Number of possible connections / for open
communication
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

32

Number of possible connections / for S7 communication

• maximum

• with OP connections / maximum

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode

32

16

16

Product functions / management, configuration, engineering

Yes
Yes
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

Internet-Link

• 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

Security information

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