

Product type designation

CP 1543SP-1

Communications processor CP 1543SP-1 for connection of an SIMATIC S7-ET 200SP to Industrial Ethernet; Security (firewall and VPN) Open IE communication (TCP/IP, ISO-on-TCP, UDP) PG/OP, S7 routing, IP broadcast/multicast, SNMPV1/V3, DHCP, secure email, IPV4/IPV6, support of SINEMA Remote Connect with autoconfiguration, time-of-day synchronization via NTP, access to web server of CPU, bus adapter required



Transfer rate	
Transfer rate	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	2
Type of electrical connection	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> for vertical installation / during operation 	-30 ... +50 °C

<ul style="list-style-type: none"> • for horizontally arranged busbars / during operation 	-30 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
Relative humidity	
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP20

Design, dimensions and weights

Width	60 mm
Height	117 mm
Depth	74 mm
Net weight	0.18 kg
Mounting type	
<ul style="list-style-type: none"> • 35 mm DIN rail mounting 	Yes

Product features, product functions, product components / general

Number of units	
<ul style="list-style-type: none"> • per CPU / maximum 	2
<ul style="list-style-type: none"> • Note 	2 CPs can be plugged in per CPU, simultaneous operation with BA Send and CM DP is possible

Performance data / open communication

Number of possible connections / for open communication	
<ul style="list-style-type: none"> • by means of T blocks / maximum 	32
Amount of data	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • maximum 	16
<ul style="list-style-type: none"> • with OP connections / maximum 	16

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	32
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Performance data / IT functions

Number of possible connections	
<ul style="list-style-type: none"> • as e-mail client / maximum 	1

Product functions / management, configuration, engineering

Product function / MIB support	Yes
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Protocol / is supported	
• SNMP v1	Yes
• SNMP v3	Yes
• 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 designation	Yes

Product functions / Diagnostics

Product function / Web-based diagnostics	Yes; via ET 200SP CPU
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Product functions / Security

Firewall version	stateful inspection
Product function / with VPN connection	IPsec, SINEMA RC
Type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
Type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
Type of hashing algorithms / with VPN connection	MD5, SHA-1
Number of possible connections / with VPN connection	4
Product function	
• switch-off of non-required services	Yes
• Blocking of communication via physical ports	Yes
• log file for unauthorized access	Yes

Product functions / time

Product function / SICLOCK support	Yes
Product function / pass on time synchronization	No
Protocol / is supported	
• NTP	Yes
• NTP (secure)	Yes
time synchronization	
• from NTP-server	Yes

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter

- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

Security information

Security information

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