

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	
• at the 1st interface	10 ... 100 Mbit/s

interfaces

number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
• at the 1st interface / according to Industrial Ethernet	2
type of electrical connection	
• at the 1st interface / according 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

width	60 mm
height	117 mm
depth	74 mm
net weight	0.18 kg
fastening method	
• 35 mm top hat DIN rail mounting	Yes

product features, product functions, product components / general

number of units	
• per CPU / maximum	2
• 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	
• by means of T blocks / maximum	32

data volume	
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	16
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	32
performance data / IT functions	
number of possible connections	
as email client / maximum	1
product functions / management, configuration, engineering	
product function / MIB support	Yes
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
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
standards, specifications, approvals	
reference code	
according to IEC 81346-2:2019	KEC
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
total	207.05 kg
during manufacturing	19.13 kg
during operation	187.74 kg
after end of life	0.18 kg
further information / internet links	
internet link	
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
to website: Industrial communication	https://www.siemens.com/simatic-net
to web page: SiePortal	https://sieportal.siemens.com/

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

<https://www.automation.siemens.com/bilddb>
<https://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

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Approvals / Certificates

General Product Approval



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