

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 - for horizontally arranged busbars / during operation - during storage - during transport	-30 ... +50 °C -30 ... +60 °C -40 ... +70 °C -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 - note	2 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://siemens.com/cax>
<https://support.industry.siemens.com>

security information

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General Product Approval



[Declaration of Con-
formity](#)



General Product Ap-
proval

For use in hazardous locations

Environment



[CCC-Ex](#)

[Confirmation](#)



last modified:

12/8/2024