

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 for horizontally arranged busbars / during operation during storage during transport 	-30 ... +50 °C -30 ... +60 °C -40 ... +70 °C -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
fastening method	
<ul style="list-style-type: none"> 35 mm top hat DIN rail mounting 	Yes
product features, product functions, product components / general	
number of units	
<ul style="list-style-type: none"> 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	

<ul style="list-style-type: none"> • by means of T blocks / maximum 	32
data volume <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
performance data / IT functions	
number of possible connections <ul style="list-style-type: none"> • as email client / maximum 	1
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported <ul style="list-style-type: none"> • SNMP v1 • SNMP v3 • DCP • LLDP 	Yes Yes Yes Yes
configuration software <ul style="list-style-type: none"> • required 	STEP 7 Professional V14 (TIA Portal) or higher
identification & maintenance function <ul style="list-style-type: none"> • I&M0 - device-specific information • I&M1 – higher level designation/location designation 	Yes 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 <ul style="list-style-type: none"> • switch-off of non-required services • blocking of communication via physical ports • log file for unauthorized access 	Yes Yes Yes
product functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	No
protocol / is supported <ul style="list-style-type: none"> • NTP • NTP (secure) 	Yes Yes
time synchronization <ul style="list-style-type: none"> • from NTP-server 	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link <ul style="list-style-type: none"> • to web page: selection aid TIA 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/tia-selection-tool 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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