

Product type designation CP 1543-1



COMMUNICATION PROCESSOR CP 1543-1 FOR CONNECTING SIMATIC S7-1500 TO INDUSTRIAL ETHERNET: TCP/IP, ISO, UDP, S7- COMMUNICATION, IP-BROADCAST/ MULTICAST, SECURITY (HARDWARE- IDENTIFICATION, IP/MAC ACCESS LIST, FIREWALL), DIAGNOSIS SNMPV1/V3, DHCP, FTP CLIENT/ SERVER, E-MAIL, IPV4/IPV6, DATA STORAGE ON SD CARD OF CPU, CLOCK SYNCHRONISATION VIA NTP, ACCESS TO WEBSERVER OF CPU; GIGABIT-SS 1XRJ45 (10/100/1000 MBIT)

Transmission rate

Transfer rate	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 1000 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet	1
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	1
Design of the electrical connection	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	RJ45 port

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage / 1 / from backplane bus	15 V
Relative symmetrical tolerance / for DC	
<ul style="list-style-type: none"> at 15 V 	3 %
Consumed current	
<ul style="list-style-type: none"> from backplane bus / for DC 	
<ul style="list-style-type: none"> at 15 V / typical 	0.35 A
Active power loss	5.3 W

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> for vertical installation / during operation 	0 ... 40 °C

<ul style="list-style-type: none"> • for horizontally arranged busbars / during operation • during storage • during transport 	<p>0 ... 60 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p>
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20
Design, dimensions and weight	
Module format	Compact module S7-1500 single width
Width	35 mm
Height	142 mm
Depth	129 mm
Net weight	0.35 kg
Mounting type	
<ul style="list-style-type: none"> • S7-1500 rail mounting 	Yes
Product properties, functions, components / general	
Number of units	
<ul style="list-style-type: none"> • per CPU / maximum • Note 	<p>8</p> <p>depending on CPU type</p>
Performance data / open communication	
Number of possible connections / for open communication / by means of T blocks	
<ul style="list-style-type: none"> • maximum • Note 	<p>118</p> <p>depending on the system upper limit</p>
Amount of data / as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum	65536 byte
Number of Multicast stations	118
Performance data / S7 communication	
Number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • maximum 	118
Number of possible connections / for S7 communication / with OP connections / maximum	
<ul style="list-style-type: none"> • Note 	depending on the system upper limit
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol mode	118
Performance data / IT functions	
Number of possible connections	
<ul style="list-style-type: none"> • as client / by means of FTP / maximum • as server <ul style="list-style-type: none"> • by means of FTP / maximum • by means of HTTP / maximum • as e-mail client / maximum 	<p>32</p> <p>16</p> <p>4</p> <p>1</p>

Amount of data / as user data for email / maximum	64 Kibyte
Performance data / telecontrol	
Protocol / is supported	
• TCP/IP	Yes
Product functions / management, configuration	
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	No
Configuration software	
• required	STEP 7 Professional V12 (TIA Portal) or higher
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
• Note	yes, via S7-1500 CPU
Product functions / Security	
Firewall version	stateful inspection
Product function / with VPN connection	IPSec
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	16
Product function	
• password protection for Web applications	No
• ACL - IP-based	No
• ACL - IP-based for PLC/routing	No
• switch-off of non-required services	Yes
• Blocking of communication via physical ports	No
• log file for unauthorized access	Yes
Product functions / Time	
Product function	
• SICLOCK support	Yes
• pass on time synchronization	Yes
Protocol / is supported / NTP	Yes
Further Information / Internet Links	
Internet-Link	

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

letzte Änderung:

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

<http://www.siemens.com/simatic-net>

<http://www.siemens.com/automation/net/catalog>

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

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

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

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