



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

• at the interface 1	10 ... 1000 Mbit/s
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### Interfaces

#### Number of electrical connections

• at interface 1 / in accordance with Industrial Ethernet	1
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#### Design of electrical connection

• at interface 1 / in accordance with Industrial Ethernet	RJ45 port
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### Supply voltage, current consumption, power loss

#### Type of / supply voltage

DC

#### Supply voltage / 1 / from backplane bus

15 V

#### Relative symmetrical tolerance / at 15 V / with DC

3 %

#### Current consumption / from backplane bus / at 15 V / with DC / typical

0.35 A

#### Resistive loss

5.3 W

### Permitted ambient conditions

#### Ambient temperature

• for vertical installation / during operating phase	0 ... 40 °C
• for horizontal installation / during operating phase	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C

Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP20
<b>Design, dimensions and weight</b>	
Module format	Compact module S7-1500 single width
Width	35 mm
Height	142 mm
Depth	129 mm
Net weight	0.35 kg
Mounting type / S7-1500 rail mounting	Yes
<b>Product properties, functions, components / general</b>	
Number of modules	
• per CPU / maximum	8
• note	depending on CPU type
<b>Performance data / open communication</b>	
Number of possible connections / for open communication / by means of T blocks / maximum	118
number of possible connections / for open communication / via T-modules / comment	depending on the system upper limit
Data volume / as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum	65536 byte
Number of Multicast stations	118
<b>Performance data / S7 communication</b>	
Number of possible connections / for S7 communication	
• maximum	118
• note	depending on the system upper limit
<b>Performance data / multi-protocol mode</b>	
Number of active connections / with multiprotocol mode	118
<b>Performance data / IT functions</b>	
Number of possible connections	
• as client / by means of FTP / maximum	32
• as server	
• by means of FTP / maximum	16
• by means of HTTP / maximum	4
• as e-mail client / maximum	1
Amount of data / as useful data for e-mail / maximum	64 Kibyte
<b>Product functions / management, configuration</b>	
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes

• LLDP	No
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	Yes
<b>Product functions / Diagnosis</b>	
Product function / Web-based diagnostics	Yes
<b>Product functions / Security</b>	
Design of the firewall	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 / for VPN connection	16
Product function	
• password protection for Web applications	No
• ACL - IP-based	No
• ACL - IP-based for PLC/routing	No
• switchoff of non-required services	Yes
• blocking of communication via physical ports	No
• log file for unauthorized access	Yes
<b>Product functions / Time</b>	
Product function	
• SICLOCK support	Yes
• pass on time synchronization	Yes
Protocol / is supported / NTP	Yes
<b>Further Information / Internet Links</b>	
Internet-Link	
• to website: Industry Mall	<a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>
<b>Security information</b>	

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**letzte Änderung:**

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