

product type designation

CP 1543-1

-- spare part -- communications processor CP 1543-1 for connection of SIMATIC S7-1500 to Industrial Ethernet; TCP/IP, ISO, UDP, S7 communication, IP broadcast/ multicast, security (VPN, firewall) diagnostics SNMPv1/v3, DHCP, FTP client/server, email, IPv4/IPv6, IEEE 802.1X (radius), time synchronization via NTP, 1x RJ45 (10/100/1000 Mbit).



product brand name

SIMATIC NET

transfer rate

transfer rate

- at the 1st interface

10 ... 1000 Mbit/s

interfaces

number of interfaces / according to Industrial Ethernet

1

number of electrical connections

- at the 1st interface / according to Industrial Ethernet

1

type of electrical connection

- at the 1st interface / according 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 / at DC

- at 15 V

3 %

consumed current

- from backplane bus / at DC / at 15 V / typical

0.35 A

power loss [W]

5.3 W

ambient conditions

ambient temperature

- for vertical installation / during operation
- for horizontally arranged busbars / during operation
- during storage
- during transport

0 ... 40 °C

0 ... 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

module format

Compact module S7-1500 single width

width

35 mm

height

142 mm

depth

129 mm

net weight

0.35 kg

fastening method

- S7-1500 rail mounting

Yes

product features, product functions, product components / general

number of units

<ul style="list-style-type: none"> per CPU / maximum 	8
<ul style="list-style-type: none"> note 	depending on CPU type
performance data / open communication	
number of possible connections / for open communication	
<ul style="list-style-type: none"> by means of T blocks / maximum 	118; depending on the system upper limit
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
number of Multicast stations	118
performance data / S7 communication	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> maximum 	118; 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 	32
<ul style="list-style-type: none"> as server / by means of FTP / maximum 	16
number of possible connections	
<ul style="list-style-type: none"> as server / by means of HTTP / maximum 	4
<ul style="list-style-type: none"> as email client / maximum 	1
data volume / as user data for email / maximum	64 Kibyte
performance data / telecontrol	
protocol / is supported	
<ul style="list-style-type: none"> TCP/IP 	Yes
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	
<ul style="list-style-type: none"> SNMP v1 	Yes
<ul style="list-style-type: none"> SNMP v3 	Yes
<ul style="list-style-type: none"> DCP 	Yes
<ul style="list-style-type: none"> LLDP 	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 	Yes
<ul style="list-style-type: none"> I&M1 - higher level designation/location designation 	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
product functions / diagnostics	
product function / web-based diagnostics	Yes; via S7-1500 CPU
product functions / routing	
service / routing / note	IP routing up to 1 Mbps
product function	
<ul style="list-style-type: none"> static IP routing 	Yes
<ul style="list-style-type: none"> static IP routing IPv6 	No
<ul style="list-style-type: none"> dynamic IP routing 	No
<ul style="list-style-type: none"> dynamic IP routing IPv6 	No
protocol / is supported	
<ul style="list-style-type: none"> RIP v1 	No
<ul style="list-style-type: none"> RIPv2 	No
<ul style="list-style-type: none"> RIPnG for IPv6 	No
<ul style="list-style-type: none"> OSPFv2 	No
<ul style="list-style-type: none"> OSPFv3 for IPv6 	No
<ul style="list-style-type: none"> VRRP 	No
<ul style="list-style-type: none"> VRRP for IPv6 	No
<ul style="list-style-type: none"> BGP 	No
<ul style="list-style-type: none"> PPP 	No
<ul style="list-style-type: none"> PPoE via DSL 	No
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, SHA-256, SHA-384, SHA-512
number of possible connections / with VPN connection	16
product function	
• IEEE 802.1x (radius)	Yes
• 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	No
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
standards, specifications, approvals	
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / cULus approval	Yes
certificate of suitability / KC approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / ULhazloc approval	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	187.84999 kg
• during manufacturing	21.24 kg
• during operation	166.25999 kg
• after end of life	0.35 kg
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• 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	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial

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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval



[Miscellaneous](#)



[China RoHS](#)

For use in hazardous locations



[FM](#)

[CCC-Ex](#)

Environment



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