

product type designation	<b>CP 1543-1</b> -- 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).
<b>transfer rate</b>	
transfer rate	
<ul style="list-style-type: none"> <li>at the 1st interface</li> </ul>	10 ... 1000 Mbit/s
<b>interfaces</b>	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	RJ45 port
<b>supply voltage, current consumption, power loss</b>	
type of voltage / of the supply voltage	DC
supply voltage / 1 / from backplane bus	15 V
relative symmetrical tolerance / at DC	
<ul style="list-style-type: none"> <li>at 15 V</li> </ul>	3 %
consumed current	
<ul style="list-style-type: none"> <li>from backplane bus / at DC / at 15 V / typical</li> </ul>	0.35 A
power loss [W]	5.3 W
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> </ul>	0 ... 40 °C 0 ... 60 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
protection class IP	IP20
<b>design, dimensions and weights</b>	
module format	Compact module S7-1500 single width
width	35 mm
height	142 mm
depth	129 mm
net weight	0.35 kg
fastening method	
<ul style="list-style-type: none"> <li>S7-1500 rail mounting</li> </ul>	Yes
<b>product features, product functions, product components / general</b>	
number of units	
<ul style="list-style-type: none"> <li>per CPU / maximum</li> <li>note</li> </ul>	8 depending on CPU type
<b>performance data / open communication</b>	
number of possible connections / for open communication	
<ul style="list-style-type: none"> <li>by means of T blocks / maximum</li> </ul>	118; depending on the system upper limit
data volume	
<ul style="list-style-type: none"> <li>as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum</li> </ul>	65536 byte
number of Multicast stations	118

performance data / S7 communication	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	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"> <li>• as client / by means of FTP / maximum</li> </ul>	32
<ul style="list-style-type: none"> <li>• as server / by means of FTP / maximum</li> </ul>	16
number of possible connections	
<ul style="list-style-type: none"> <li>• as server / by means of HTTP / maximum</li> </ul>	4
<ul style="list-style-type: none"> <li>• as email client / maximum</li> </ul>	1
data volume / as user data for email / maximum	64 Kibyte
performance data / telecontrol	
protocol / is supported	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	Yes
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• LLDP</li> </ul>	Yes
configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 Professional V14 (TIA Portal) or higher
identification & maintenance function	
<ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M1 - higher level designation/location designation</li> </ul>	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"> <li>• static IP routing</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• static IP routing IPv6</li> </ul>	No
<ul style="list-style-type: none"> <li>• dynamic IP routing</li> </ul>	No
<ul style="list-style-type: none"> <li>• dynamic IP routing IPv6</li> </ul>	No
protocol / is supported	
<ul style="list-style-type: none"> <li>• RIP v1</li> </ul>	No
<ul style="list-style-type: none"> <li>• RIPv2</li> </ul>	No
<ul style="list-style-type: none"> <li>• RIPnG for IPv6</li> </ul>	No
<ul style="list-style-type: none"> <li>• OSPFv2</li> </ul>	No
<ul style="list-style-type: none"> <li>• OSPFv3 for IPv6</li> </ul>	No
<ul style="list-style-type: none"> <li>• VRRP</li> </ul>	No
<ul style="list-style-type: none"> <li>• VRRP for IPv6</li> </ul>	No
<ul style="list-style-type: none"> <li>• BGP</li> </ul>	No
<ul style="list-style-type: none"> <li>• PPP</li> </ul>	No
<ul style="list-style-type: none"> <li>• PPOE via DSL</li> </ul>	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	
<ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>	Yes

<ul style="list-style-type: none"> <li>password protection for Web applications</li> </ul>	No
<ul style="list-style-type: none"> <li>ACL - IP-based</li> </ul>	No
<ul style="list-style-type: none"> <li>ACL - IP-based for PLC/routing</li> </ul>	No
<ul style="list-style-type: none"> <li>switch-off of non-required services</li> </ul>	Yes
<ul style="list-style-type: none"> <li>blocking of communication via physical ports</li> </ul>	No
<ul style="list-style-type: none"> <li>log file for unauthorized access</li> </ul>	Yes
<b>product functions / time</b>	
product function / SICLOCK support	No
product function / pass on time synchronization	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>NTP</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
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
<b>standards, specifications, approvals / hazardous environments / header</b>	
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
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> </ul>	187.85 kg
<ul style="list-style-type: none"> <li>during manufacturing</li> </ul>	21.24 kg
<ul style="list-style-type: none"> <li>during operation</li> </ul>	166.26 kg
<ul style="list-style-type: none"> <li>after end of life</li> </ul>	0.35 kg
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	<p>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 cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
<b>Approvals / Certificates</b>	

General Product Approval



[Declaration of Con-  
formity](#)



[China RoHS](#)

General Product Approval

For use in hazardous locations



[Miscellaneous](#)



[EM](#)

For use in hazard-  
ous locations

Environment

[CCC-Ex](#)



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