

### product type designation



Figure similar

### CP 1543-1

SIPLUS NET CP 1543-1 based on 6GK7543-1AX00-0XE0 with conformal coating, -40...+70 °C, communications processor 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), diagnostics SNMPV1/V3, DHCP, FTP client/ server, email, IPv4/IPv6, data storage on SD Card of the CPU, time-of-day synchronization via NTP, access to the

Technical Product Detail Page

<https://l.siemens.com/1P6AG1543-1AX00-2XE0>

### 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

-40 ... +40 °C  
-40 ... +70 °C  
-40 ... +70 °C  
-40 ... +70 °C

installation altitude / at height above sea level / maximum

5000 m

ambient condition / relating to ambient temperature - air pressure - installation altitude

Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)

relative humidity

- with condensation / according to IEC 60068-2-38 / maximum

100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation

chemical resistance / to commercially available cooling lubricants

Yes; incl. airborne diesel and oil droplets

resistance to biologically active substances

- conformity according to EN 60721-3-3
- conformity according to EN 60721-3-6

Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request  
Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)

resistance to chemically active substances

<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>	Yes
resistance to mechanically active substances	
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / according to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / according to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, class A
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> </ul>	8
<ul style="list-style-type: none"> <li>note</li> </ul>	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
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	118; depending on the system upper limit
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	118
<b>performance data / IT functions</b>	
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
<b>performance data / telecontrol</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>TCP/IP</li> </ul>	Yes
<b>product functions / management, configuration, engineering</b>	
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>DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>LLDP</li> </ul>	No
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> <li>• I&amp;M1 - higher level designation/location designation</li> </ul>	<p>Yes</p> <p>Yes</p>
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes; via S7-1500 CPU
<b>product functions / routing</b>	
service / routing / note	IP routing up to 1 Mbps
product function	
<ul style="list-style-type: none"> <li>• static IP routing</li> <li>• static IP routing IPv6</li> <li>• dynamic IP routing</li> <li>• dynamic IP routing IPv6</li> </ul>	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p>
protocol / is supported	
<ul style="list-style-type: none"> <li>• RIP v1</li> <li>• RIPv2</li> <li>• RIPnG for IPv6</li> <li>• OSPFv2</li> <li>• OSPFv3 for IPv6</li> <li>• VRRP</li> <li>• VRRP for IPv6</li> <li>• BGP</li> <li>• PPP</li> <li>• PPOE via DSL</li> </ul>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
<b>product functions / security</b>	
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	
<ul style="list-style-type: none"> <li>• password protection for Web applications</li> <li>• ACL - IP-based</li> <li>• ACL - IP-based for PLC/routing</li> <li>• switch-off of non-required services</li> <li>• blocking of communication via physical ports</li> <li>• log file for unauthorized access</li> </ul>	<p>No</p> <p>No</p> <p>No</p> <p>Yes</p> <p>No</p> <p>Yes</p>
<b>product functions / time</b>	
product function / SICLOCK support	Yes
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 / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>• total</li> <li>• during manufacturing</li> <li>• during operation</li> <li>• after end of life</li> </ul>	<p>187.86 kg</p> <p>21.26 kg</p> <p>166.25 kg</p> <p>0.35 kg</p>
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a></p> <p><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a></p> <p><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></p> <p><a href="https://siemens.com/cax">https://siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

security information

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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 [www.siemens.com/cybersecurity-industry](http://www.siemens.com/cybersecurity-industry). 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 <https://www.siemens.com/cert>. (V4.7)

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



[China RoHS](#)



General Product Approval

EMV

For use in hazardous locations

Environment



[CCG-Ex](#)



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