# **SIEMENS**

## **Data sheet**

# 6GK7543-1AX00-0XE0

#### product type designation



## CP 1543-1

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-of-day synchronization via NTP, 1x RJ45 (10/100/1000 Mbit).

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		
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	RJ45 port	
supply voltage, current consumption, power loss	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		
<ul> <li>for vertical installation / during operation</li> </ul>	0 40 °C	
<ul> <li>for horizontally arranged busbars / during operation</li> </ul>	0 60 °C	
during storage	-40 +70 °C	
during transport	-40 +70 °C	
relative humidity		
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	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		
• per CPU / maximum	8	
• note	depending on CPU type	

performance data / open communication	
number of possible connections / for open communication	
by means of T blocks / maximum	118; depending on the system upper limit
data volume	The superior of the officer appearance
as user data per ISO on TCP connection / for open	65536 byte
communication / by means of T blocks / maximum	440
number of Multicast stations	118
performance data / S7 communication	
number of possible connections / for S7 communication	
• 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><li>as client / by means of FTP / maximum</li></ul>	32
as server / by means of FTP / maximum	16
number of possible connections	
<ul><li>as server / by means of HTTP / maximum</li></ul>	4
as email client / maximum	1
data volume / as user data for email / maximum	64 Kibyte
performance data / telecontrol	
protocol / is supported	
• TCP/IP	Yes
product functions / management, configuration, engineering	
product function / MIB support	Yes
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protocol / is supported	Voc
• SNMP v1	Yes
• SNMP v3	Yes
• DCP	Yes
• LLDP	Yes
configuration software	
• required	STEP 7 Professional V14 (TIA Portal) or higher
identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
I&M1 - higher level designation/location designation	Yes
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
and duct function	
product function	
·	Yes
static IP routing	
static IP routing     static IP routing IPv6	No
<ul> <li>static IP routing</li> <li>static IP routing IPv6</li> <li>dynamic IP routing</li> </ul>	No No
<ul> <li>static IP routing</li> <li>static IP routing IPv6</li> <li>dynamic IP routing</li> <li>dynamic IP routing IPv6</li> </ul>	No
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported	No No No
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1	No No No
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2	No No No
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2     RIPnG for IPv6	No No No No No No
<ul> <li>static IP routing</li> <li>static IP routing IPv6</li> <li>dynamic IP routing</li> <li>dynamic IP routing IPv6</li> </ul> protocol / is supported <ul> <li>RIP v1</li> <li>RIPv2</li> <li>RIPnG for IPv6</li> <li>OSPFv2</li> </ul>	No No No No No No No No
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2     RIPnG for IPv6     OSPFv2     OSPFv3 for IPv6	No
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2     RIPnG for IPv6     OSPFv2     OSPFv3 for IPv6     VRRP	No
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2     RIPnG for IPv6     OSPFv2     OSPFv3 for IPv6     VRRP     VRRP for IPv6	No N
<ul> <li>static IP routing</li> <li>static IP routing IPv6</li> <li>dynamic IP routing</li> <li>dynamic IP routing IPv6</li> <li>protocol / is supported</li> <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> </ul>	No N
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2     RIPnG for IPv6     OSPFv2     OSPFv3 for IPv6     VRRP     VRRP for IPv6     BGP     PPP	No N
static IP routing static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6  protocol / is supported RIP v1 RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP For IPv6 BGP PPP PPOE via DSL	No N
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2     RIPnG for IPv6     OSPFv2     OSPFv3 for IPv6     VRRP     VRRP for IPv6     BGP     PPP	No N
static IP routing static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6  protocol / is supported RIP v1 RIPv2 RIPnG for IPv6 OSPFv2 OSPFv3 for IPv6 VRRP VRRP for IPv6 BGP PPP PPOE via DSL	No N
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2     RIPnG for IPv6     OSPFv2     OSPFv3 for IPv6     VRRP     VRRP for IPv6     BGP     PPP     PPoE via DSL  product functions / security	No N
static IP routing     static IP routing IPv6     dynamic IP routing     dynamic IP routing IPv6  protocol / is supported     RIP v1     RIPv2     RIPnG for IPv6     OSPFv2     OSPFv3 for IPv6     VRRP     VRRP for IPv6     BGP     PPP     PPoE via DSL  product functions / security  firewall version	No N

number of possible connections / with VPN connection	16
product function	
• IEEE 802.1x (radius)	Yes
<ul> <li>password protection for Web applications</li> </ul>	No
ACL - IP-based	No
<ul> <li>ACL - IP-based for PLC/routing</li> </ul>	No
<ul> <li>switch-off of non-required services</li> </ul>	Yes
<ul> <li>blocking of communication via physical ports</li> </ul>	No
<ul> <li>log file for unauthorized access</li> </ul>	Yes
product functions / time	
product function / SICLOCK support	No
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
as marking	Ex nA IIC T4 Gc
further information / internet links	
internet link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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