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		
• 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 	0 40 °C	
 for horizontally arranged busbars / during operation 	0 60 °C	
during storage	-40 +70 °C	
during transport	-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 / ger	neral	
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	
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	
• 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	
 as client / by means of FTP / maximum 	32
 as server / by means of FTP / maximum 	16
number of possible connections	
as server / by means of HTTP / maximum	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
protocol / is supported	
SNMP v1	Yes
• SNMP v3	Yes
• DCP	Yes
• LLDP	Yes
configuration software	
required	STEP 7 Professional V14 (TIA Portal) or higher
identification & maintenance function	
I&M0 - device-specific information	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	
	IP routing up to 1 Mbps
service / routing / note	IP routing up to 1 Mbps
product function	Vac
static IP routing	Yes
static IP routing IPv6 dynamic IP routing	No
dynamic IP routing	No
dynamic IP routing IPv6	No
protocol / is supported	No
• RIP v1	No
• RIPv2	No
RIPnG for IPv6 OSPEv2	No
OSPFv2 OSPFv2 OSPFv2	No
OSPFv3 for IPv6	No
• VRRP	No
VRRP for IPv6	No
• BGP	No
• PPP	No
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

ype of hashing algorithms / with VPN connection number of possible connections / with VPN connection product function • IEEE 802.1x (radius) • password protection for Web applications • ACL - IP-based • ACL - IP-based for PLC/routing	MD5, SHA-1, SHA-256, SHA-384, SHA-512 16 Yes No
 IEEE 802.1x (radius) password protection for Web applications ACL - IP-based 	Yes
 IEEE 802.1x (radius) password protection for Web applications ACL - IP-based 	
 password protection for Web applications ACL - IP-based 	No
• ACL - IP-based	
	No
	No
switch-off of non-required services	Yes
 blocking of communication via physical ports 	No
 log file for unauthorized access 	Yes
oduct functions / time	
product function / SICLOCK support	No
product function / pass on time synchronization	Yes
protocol / is supported	
NTP	Yes
 NTF andards, specifications, approvals / hazardous environments 	
certificate of suitability / CCC / for hazardous zone according to	Yes; GB3836.1, GB3836.8
GB standard certificate of suitability / CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
andards, specifications, approvals / Environmental Product [Declaration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	115.52 kg
during manufacturing	21.24 kg
during manufacturing ouring operation	93.93 kg
after end of life	0.35 kg
* and end of me	
nternet link	
	https://www.automation.siemens.com/bilddb
to website: Image database to website: Industry Online Support	
to website: Industry Online Support	https://support.industry.siemens.com
curity information	Siemens provides products and solutions with industrial cybersecurity functions
oprovals / Certificates	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. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongl 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)
General Product Approval	
Anufacturer Declara- tion <u>formity</u> EG-Konf.	
General Product Approval For use in ha	zardous locations
Miscellaneous	EM CCC-Ex



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