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 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 / acc. to Industrial Ethernet	1
number of electrical connections	
at the 1st interface / acc. to Industrial Ethernet	1
type of electrical connection	
at the 1st interface / acc. 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	/ 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	, , , , , , , , , , , , , , , , , , , ,
• 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	
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, engineeri	ng
product function / MIB support	Yes
protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	No
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	,
service / routing / note	IP routing up to 1 Mbps
product function	
static IP routing	Yes
static IP routing IPv6	No
dynamic IP routing	No
dynamic IP routing IPv6	No
protocol / is supported	
• RIP v1	No
• RIPv2	No
RIPnG for IPv6	No
• 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 endryption algorithms / with VPN connection	7L0-200, AL0-132, AL0-120, 3DE0-100, DE0-30

type of authentication procedure / with VPN connection	Preshared key (PSK) Y 500v3 certificates
type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
type of hashing algorithms / with VPN connection number of possible connections / with VPN connection	MD5, SHA-1 16
product function	
• IEEE 802.1x (radius)	Yes
,	No
 password protection for Web applications ACL - IP-based 	No
ACL - IP-based ACL - IP-based for PLC/routing	No
switch-off of non-required services	Yes
·	No
 blocking of communication via physical ports log file for unauthorized access 	Yes
product functions / time	165
	Vec
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	V
• NTP	Yes
standards, specifications, approvals / hazardous environ	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	<u>, </u>
Internet-Link	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall	https://mall.industry.siemens.com
 to website: Information and Download Center 	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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