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 • at the 1st interface interfaces	10 1000 Mbit/s	
interfaces	10 1000 Mbit/s	
number of interferent and the Control of the Control		
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 / 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 graph and the special appearance
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	110
number of possible connections / for S7 communication	440) depending on the system upper limit
• 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	165
• required	STED 7 Professional V/14 /TIA Portal) or higher
identification & maintenance function	STEP 7 Professional V14 (TIA Portal) or higher
	Voc
I&M0 - device-specific information I&M4 - bistor level designation (level) I&M4 - bistor level designation (level)	Yes
I&M1 - higher level designation/location designation and the function / is a supported / identification link	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	
product function • static IP routing	Yes
•	Yes No
static IP routing	
static IP routingstatic IP routing IPv6	No
 static IP routing static IP routing IPv6 dynamic IP routing 	No No
 static IP routing static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 	No 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 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
 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
 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 	No N
 static IP routing static IP routing IPv6 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
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

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	
• IEEE 802.1x (radius)	Yes
password protection for Web applications	No
ACL - IP-based	No
ACL - IP-based for PLC/routing	No
switch-off of non-required services	Yes
blocking of communication via physical ports	No
log file for unauthorized access	Yes
product functions / time	163
product function / SICLOCK support	No
product function / pass on time synchronization	Yes
· · · · · · · · · · · · · · · · · · ·	165
protocol / is supported • NTP	Yes
tandards, specifications, approvals	165
reference code	
according to IEC 81346-2:2019	KEC
tandards, specifications, approvals / Environmental Product	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	407.05 kg
• total	187.85 kg
during manufacturing	21.24 kg
during operation after end of life	166.26 kg
urther information / internet links	0.35 kg
internet link	https://purposet.industry.ci.com/apa/apa/apa/apa/apa/apa/apa/apa/apa/ap
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
to website: Industrial communication	https://www.siemens.com/simatic-net
to web page: SiePortal	https://sieportal.siemens.com/
to website: Image database	https://www.automation.siemens.com/bilddb
to website: CAx-Download-Manager	https://siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
ecurity information	
security information	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. 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



Declaration of Conformity









General Product Approval

For use in hazardous locations

Miscellaneous







CCC-Ex

<u>FM</u>

Environment

Confirmation



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