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, Time synchronization via NTP, 1x RJ45 (10/100/1000 MB)



Transmission 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	

Permitted ambient conditions	
Ambient temperature	
• for vertical installation / during operation	0 40 °C
for horizontally arranged busbars / during	0 60 °C
operation	
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity / at 25 °C / without condensation /	95 %
during operation / maximum	
Protection class IP	IP20
Design, dimensions and weight	
Module format	Compact module S7-1500 single width
Width	35 mm
Height	142 mm
Depth	129 mm
Net weight	0.35 kg
Mounting type	
• S7-1500 rail mounting	Yes
Product properties, functions, components / genera	l
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
Amount of data	
as user data per ISO on TCP connection / for	65536 byte
open communication / by means of T blocks / maximum	
Number of Multicast stations	118
Number of Multicast Stations	110
Performance data / S7 communication	
Number of possible connections / for S7	
communication .	440
• maximum	118
• Note	depending on the system upper limit
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol	118
mode	
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 e-mail client / maximum	1
Amount of data / as user data for email / maximum	64 Kibyte

Performance data / telecontrol	
Protocol / is supported	
• TCP/IP	Yes
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 / Diagnosis Product function / Web-based diagnostics Yes; 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 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	
 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	
Product function / SICLOCK support	Yes
Product function / pass on time synchronization	Yes
Protocol / is supported	
• NTP	Yes

Accessories

Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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