SIEMENS

Data sheet

Product type designation

6GK7543-1AX00-0XE0

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)



10 1000 Mbit/s
1
1
RJ45 port
DC
15 V
3 %
0.35 A
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	
Number of units	
● per CPU / maximum	8
Note	depending on CPU type
Performance data / open communication	
Number of possible connections / for open	
communication	
communication	
by means of T blocks / maximum	118; depending on the system upper limit
	118; depending on the system upper limit
• by means of T blocks / maximum Amount of data	118; depending on the system upper limit 65536 byte
• by means of T blocks / maximum	
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for 	
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / 	
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum 	65536 byte
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations 	65536 byte
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations Performance data / S7 communication 	65536 byte
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations Performance data / S7 communication Number of possible connections / for S7 	65536 byte
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations Performance data / S7 communication Number of possible connections / for S7 communication 	65536 byte 118
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations Performance data / S7 communication Number of possible connections / for S7 communication maximum 	65536 byte 118 118
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations Performance data / S7 communication Number of possible connections / for S7 communication maximum Note 	65536 byte 118 118
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations Performance data / S7 communication Number of possible connections / for S7 communication maximum Note Performance data / multi-protocol mode 	65536 byte 118 118 depending on the system upper limit
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations Performance data / S7 communication Number of possible connections / for S7 communication maximum Note Performance data / multi-protocol mode Number of active connections / with multi-protocol 	65536 byte 118 118 depending on the system upper limit
 by means of T blocks / maximum Amount of data as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum Number of Multicast stations Performance data / S7 communication Number of possible connections / for S7 communication maximum Note Performance data / multi-protocol mode Number of active connections / with multi-protocol mode 	65536 byte 118 118 depending on the system upper limit

 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 	Yes
designation	
Product functions / Diagnosis Product function / Web-based diagnostics	Yes; yes, via S7-1500 CPU
Troduct function / Web-based diagnostics	
Product functions / Routing	
Product function	
	Yes
Product function	Yes No
Product function • Static IP routing	No No
Product function • Static IP routing • Static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6	No
Product function • Static IP routing • Static IP routing IPv6 • dynamic IP routing	No No
Product function • Static IP routing • Static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6	No No
Product function • Static IP routing • Static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6 Protocol / is supported	No No No
Product function • Static IP routing • Static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6 Protocol / is supported • RIP v1	No No No
Product function • Static IP routing • Static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6 Protocol / is supported • RIP v1 • RIPv2	No No No No No
Product function • 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
Product function • Static IP routing • Static IP routing IPv6 • dynamic IP routing IPv6 Protocol / is supported • RIP v1 • RIPv2 • RIPnG for IPv6 • OSPFv2	No No No No No No
Product function • 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 No No No No No No No
Product function • 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	No No
Product function • 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	No No No No No No No No No No
Product function • 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	No No
Product function • 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 No

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	http://www.siemens.com/snst
 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

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