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 / 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 superior of the officer appearance
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, engineering	
product function / MIB support	Yes
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protocol / is supported	Voc
• 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	
service / routing / note	IP routing up to 1 Mbps
and duct function	
product function	
·	Yes
static IP routing	
static IP routing static 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
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
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
 static IP routing static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported RIP v1 RIPv2 RIPnG for IPv6 OSPFv2 	No No No 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 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	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

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	
product function / SICLOCK support	No
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
as marking	Ex nA IIC T4 Gc
further information / internet links	
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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