SIEMENS

Data sheet

6GK7545-1GX00-0XE0

product type designation



CP 1545-1

Communications processor CP 1545-1 for connection of SIMATIC S7-1500 to Industrial Ethernet; TCP/IP, UDP, S7 communication, Security (firewall), SNMPv1/v3, DHCP, FTP client/server, email, IPv4/IPv6, time-of-day synchronization via NTP, connection to cloud systems via MQTT, 1x RJ45 (10/100/1000 Mbps)

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	0.3 A
power loss [W]	4.5 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	0.32 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		
product functions / cloud connectivity	product functions / cloud connectivity		
protocol / is supported			
 Message Queuing Telemetry Transport (MQTT) 	Yes		
 Advanced Message Queuing Protocol (AMQP) 	No		
product function / for cloud connectivity			
 trigger management 	Yes		
time stamping	Yes		
product feature / for cloud connectivity / buffered message frame memory	No		
number of data points per device / maximum	500		
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	110, doponaling of the oyotom apper limit		
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			
number of possible connections / for S7 communication			
maximum	119: depending on the system upper limit		
	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	ng		
product function / MIB support	Yes		
protocol / is supported			
SNMP v1	Yes		
• SNMP v3	Yes		
• DCP	Yes		
• LLDP	Yes		
configuration software			
• required	STEP 7 Professional V15.1 (TIA Portal) or higher		
identification & maintenance function	OTEL THOROUGHAI VIOLI (TIMI OITAL) OF HIGHE		
I&M0 - device-specific information	Yes		
I&M1 – higher level designation/location designation	Yes		
	100		
product functions / diagnostics	Vocavia C7 1500 CDL		
product function / web-based diagnostics	Yes; via S7-1500 CPU		
product functions / routing	ID as the room to 4 Miles		
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	Control of the Contro	
password protection for Web applications	No	
ACL - IP-based	No	
ACL - IP-based for PLC/routing	No	
switch-off of non-required services	Yes	
·	No	
blocking of communication via physical ports log file for upputherized access.		
log file for unauthorized access product functions / times	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 environn	nents	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes	
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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