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 (VPN, 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 / 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	0.3 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 • Message Queuing Telemetry Transport (MQTT) • Advanced Message Queuing Protocock (AMICP) product function / for cloud connectivity • Inger management • Insert stamping product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connectivity / buffered message product feature / for cloud connection / for pon communication • by means of T blocks / maximum • as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum • as user of state per ISO on TCP connection / for open communication / for ST communication • maximum • mumber of Multi-cast stations proformance data / IT functions number of possible connections / with multi-protocol mode proformance data / IT functions number of possible connections • as elent / by means of FTP / maximum • as elent / by means of FTP / maximum • as earall client / maximum • as email clie
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product functions / routing
service / routing / note
service / routing / note IP routing up to 1 Mbps
product function
• static IP routing Yes
• static IP routing IPv6 No
dynamic IP routing
dynamic IP routing IPv6 No
protocol / is supported
protocol / is supported ◆ RIP v1 No
• RIP v1 No
● RIP v1 No

VODD	N.
• 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, SHA-256, SHA-384, SHA-512
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	No
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
standards, specifications, approvals	
reference code	
 according to IEC 81346-2:2019 	KEC
standards, specifications, approvals / Environmental Product D	eclaration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	162.49 kg
during manufacturing	21.24 kg
during operation	140.9 kg
after end of life	0.35 kg
further information / internet links	
internet link	
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
security information	THE STATE OF THE S
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	For use in hazard-







China RoHS





For use in hazardous locations

Environment



<u>FM</u>

CCC-Ex





last modified:

2/28/2025