SIEMENS

Data sheet

6GK7545-1GX00-0XE0



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 Mbit/s).

transfer rate at the 1st interface 10 1000 Mbit/s Interfaces number of interfaces / according to Industrial Ethernet 1 number of electrical connection 1 • at the 1st interface / according to Industrial Ethernet 1 type of electrical connection 1 • at the 1st interface / according to Industrial Ethernet 1 supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / of the supply voltage DC supply voltage / 1 from backplane bus 15 V relative symmetrical tolerance / at DC 3 % oronsumed current 0 40 °C • for hackplane bus / at DC / at 15 V / typical 0.3 A ambient temperature 0 40 °C • for horizontally arranged busbars / during operation 0 40 °C • during storage -40 +70 °C • during transport -40 470 °C voltage / IP IP20 design, dimensions and weights Compact module S7-1500 single width module format Compact module S7-1500 single width width 35 rm height 129 mm otartif astalling method	transfer rate		
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fastening method Tes • S7-1500 rail mounting Yes product features, product functions, product components / general number of units • per CPU / maximum 8	depth	129 mm	
• S7-1500 rail mounting Yes product features, product functions, product components / general number of units • per CPU / maximum 8	5	0.32 kg	
product features, product functions, product components / general number of units • per CPU / maximum 8	-		
number of units • per CPU / maximum 8	_		
• per CPU / maximum 8	product features, product functions, product components / general		
	•		
note depending on CPU type	• note	depending on CPU type	

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	No
frame memory	
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	
 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 	118: depending on the system upper limit
	118; depending on the system upper limit
performance data / multi-protocol mode	110
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	4
 as server / by means of HTTP / maximum as email client / maximum 	4
data volume / as user data for email / maximum	64 Kibyte
performance data / telecontrol	of hisyte
performance data / telecontrol	
protocol / is supported	
protocol / is supported • TCP/IP	Yes
• TCP/IP	
• TCP/IP product functions / management, configuration, engineeri	ng
TCP/IP product functions / management, configuration, engineeri product function / MIB support	ng
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported	ng Yes
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP	ng Yes Yes
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP	ng Yes Yes Yes
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software	ng Yes Yes Yes Yes Yes
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software required	ng Yes Yes Yes Yes
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software required identification & maintenance function	rg Yes Yes Yes Yes STEP 7 Professional V15.1 (TIA Portal) or higher
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software required identification & maintenance function I&M0 - device-specific information	res Yes Yes Yes Yes STEP 7 Professional V15.1 (TIA Portal) or higher Yes
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TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software required identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function / web-based diagnostics product functions / routing	rg Yes Yes Yes Yes STEP 7 Professional V15.1 (TIA Portal) or higher Yes Yes Yes
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TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software required identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function / web-based diagnostics product functions / routing service / routing / note product function	rg Yes Yes Yes Yes STEP 7 Professional V15.1 (TIA Portal) or higher Yes Yes Yes IP routing up to 1 Mbps
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software • required identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation product functions / diagnostics product function / web-based diagnostics product function / note product function • static IP routing	rg Yes Yes Yes Yes STEP 7 Professional V15.1 (TIA Portal) or higher Yes Yes Yes IP routing up to 1 Mbps Yes
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TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software • required identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation product functions / diagnostics product function / web-based diagnostics product function / note product function • static IP routing • static IP routing IPv6 • dynamic IP routing } } recurrent	rg Yes Yes Yes Yes STEP 7 Professional V15.1 (TIA Portal) or higher Yes Yes Yes Yes IP routing up to 1 Mbps Yes No No
TCP/IP product functions / management, configuration, engineeri product function / MIB support protocol / is supported SNMP v1 SNMP v3 DCP LLDP configuration software • required identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation product functions / diagnostics product function / web-based diagnostics product function / note product function • static IP routing • static IP routing IPv6 • dynamic IP routing IPv6 • dynamic IP routing IPv6	rg Yes Yes Yes Yes STEP 7 Professional V15.1 (TIA Portal) or higher Yes Yes Yes IP routing up to 1 Mbps Yes No
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• 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	
number of possible connections / with VPN connection	16	
product function	NI-	
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	
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)	
last modified:	10/13/2022	

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10/13/2022 🖸