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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 / ge	eneral		
number of units			
• per CPU / maximum	8		
note	depending on CPU type		

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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				
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					
	Yes				
product function / MIB support					
protocol / is supported • SNMP v1	Yes				
• SNMP v3	Yes				
• DCP	Yes				
• LLDP	Yes				
	Tes				
configuration software	STED 7 Drafaggional V/14 (TIA Dartal) or higher				
required identification & maintenance function	STEP 7 Professional V14 (TIA Portal) or higher				
	Yes				
 I&M0 - device-specific information I&M1 - higher level designation/location designation 	Yes				
product function / is supported / identification link					
product function / is supported / identification link	Yes; according to IEC 61406-1:2022				
	Venuie C7 1500 CDU				
product function / web-based diagnostics product functions / routing	Yes; via S7-1500 CPU				
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	No				
• RIP v1	No				
RIPv2 DIP=0 for ID-0	No				
RIPnG for IPv6	No				
• OSPFv2	No				
OSPFv3 for IPv6 VODD	No				
	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					
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				
roduct functions / time					
product function / SICLOCK support	No				
product function / pass on time synchronization	Yes				
protocol / is supported					
• NTP	Yes				
tandards, specifications, approvals					
reference code					
according to IEC 81346-2:2019	KEC				
tandards, specifications, approvals / Environmental Produ					
Environmental Product Declaration	Yes				
Global Warming Potential [CO2 eq]					
• total	187.85 kg				
during manufacturing	21.24 kg				
during operation	, and the second s				
after end of life	166.26 kg 0.35 kg				
urther information / internet links	0.00 kg				
internet link					
	https://www.siemens.com/tstcloud				
to web page: selection aid TIA Selection Tool					
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://www.siemens.com/cax				
to website: Industry Online Support	https://support.industry.siemens.com				
ecurity information security information	Ciercono provideo producto and colutiono with industrial subgroups with functions				
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Approvals / Certificates					
General Product Approval					
EG-Konf.					
General Product Approval For use in	hazardous locations				

8/27/2024

<u>Miscellaneous</u>	RCM	KEx ATEX	IECEX	<u>FM</u>	CCC-Ex
For use in hazard- ous locations	Marine / Shipping		Environment		
			<u>Confirmation</u>	EPD	

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