Data sheet

6AG1543-1AX00-2XE0

product type designation



SIPLUS NET CP 1543-1

SIPLUS CP 1543-1 -40...+70 °C with conformal coating based on 6GK7543-1AX00-0XE0 Communications processor for connecting SIMATIC S7-1500 to Industrial Ethernet: TCP/IP, ISO, UDP, S7 communication, IP Broadcast/ Multicast, security (hardware identification, IP/MAC access list, firewall), Diagnostics SNMPV1/V3, DHCP, FTP client/ server, E-mail, IPV4/IPV6, Data storage on SD card of the CPU, time-of-day synchronization via NTP, Access to the Web server of the CPU; Gigabit interface 1x RJ45 (10/100/1000 MB)

Figure similar

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	0.35 A

power loss [W]	5.3 W

power loss [w]	5.3 VV
ambient conditions	
ambient temperature	
• for vertical installation / during operation	-40 +40 °C
 for horizontally arranged busbars / during operation 	-40 +70 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
installation altitude / at height above sea level / maximum	5000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
relative humidity	
 with condensation / acc. to IEC 60068-2-38 / maximum 	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
resistance to biologically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
• conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
● conformity acc. to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.
• conformity acc. to EN 60721-3-6	Yes
resistance to mechanically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
● conformity acc. to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / acc. to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / acc. to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes; Conformal coating, class A
protection class IP	IP20
design, dimensions and weights	

decide	dima	neigne	and	walahte
rara-curation in				weights

module format Compact module S7-1500 single width



width	35 mm
height	142 mm
depth	129 mm
net weight	0.35 kg
mounting type	
● S7-1500 rail mounting	Yes
product features, product functions, product compo	nents / general
number of units	Herita / gerierai
● per CPU / maximum	8
• note	depending on CPU type
- note	deponding on or o 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
amount of data	
 as user data per ISO on TCP connection / for 	65536 byte
open communication / by means of T blocks /	
maximum	
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	118
mode	110
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 e-mail client / maximum	1
amount of data / as user data for email / maximum	64 Kibyte
washing a data / talaa antual	
performance data / telecontrol protocol / is supported	
	Voc
● TCP/IP	Yes
product functions / management, configuration, eng	gineering
product function / MIB support	Yes
protocol / is supported	



• SNMP v1	Yes
• DCP	Yes
• LLDP	No
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 	Yes
designation	

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
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 / 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
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
 switch-off of non-required services
 blocking of communication via physical ports
 log file for unauthorized access
 Yes

product functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes

further information / internet-Links

Internet-Link

to website: Selector TIA Selection Tool
 to website: Industrial communication
 to website: Industry Mall
 to website: Information and Download Center
 http://www.siemens.com/simatic-net
 https://mall.industry.siemens.com
 http://www.siemens.com/industry/infocenter

to website: Image database
 to website: CAx Download Manager
 http://www.siemens.com/cax

• to website: Industry Online Support https://support.industry.siemens.com

security information

security information

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