SIEMENS

Data sheet

6AG1543-1AX00-2XE0

product type designation



SIPLUS NET CP 1543-1

SIPLUS NET CP 1543-1 based on 6GK7543-1AX00-0XE0 with conformal coating, -40...+70 °C, 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, email, IPv4/IPv6, data storage on SD Card of the CPU, time-of-day synchronization via NTP, access to the

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 	-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 / according 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 according to EN 60721-3-3	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
 conformity according to EN 60721-3-6 	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
 conformity according 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 according to EN 60721-3-6 	Yes

resistance to mechanically active substances	
 conformity according 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 according 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 / according 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 / according 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 according to IPC-CC-830A	Yes; Conformal coating, class A
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	
number of units	
• per CPU / maximum	8
• note	depending on CPU type
performance data / open communication	doponding on or o type
number of possible connections / for open communication	
	119: depending on the exetem upper limit
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	7 1 0 7 11
number of active connections / with multi-protocol mode	118
performance data / IT functions	
number of possible connections	
•	22
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 performance data / telecontrol	64 Kibyte
protocol / is supported	Von
• TCP/IP	Yes
product functions / management, configuration, engineering	
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 designation 	Yes
product functions / diagnostics	
product function / web-based diagnostics	Yes; via S7-1500 CPU
-	

product functions / routing	
IP routing up to 1 Mbps	
Yes	
No	
No	
No	
No	
stateful inspection	
IPSec	
AES-256, AES-192, AES-128, 3DES-168, DES-56	
Preshared key (PSK), X.509v3 certificates	
MD5, SHA-1	
16	
No	
No	
No	
Yes	
No	
Yes	
Yes	
Yes	
Yes	
KEC	
https://www.siemens.com/tstcloud	
https://www.siemens.com/simatic-net	
https://sieportal.siemens.com/	
https://www.automation.siemens.com/bilddb	
https://www.siemens.com/cax	
https://support.industry.siemens.com	
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Approvals / Certificates

For use in hazardous locations

Environment

CCC-Ex



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