SIEMENS

Data sheet

6AG1343-1GX31-4XE0

Product type designation



SIPLUS NET CP343-1 ADVANCED

SIPLUS NET CP 343-1 Advanced with conformal coating based on 6GK7343-1GX31-0XE0 . for connection of the SIMATIC "S7-300 CPU to Ind. Ethernet;" PROFINET IO controller and/or "IO Device; RT and RT and IRT" "IRT, MRP, PROFINET CBA; TCP/IP" ISO, UDP, S7 COM, S5-comp. com., (send/receive) with Fetch/Write with and without RFC 1006, MULTICAST Diagnostic extension,SNMP,DHCP, FTP client/server, e-mail, Gigabit-SS1X RJ45 (10/100/1000) PROFINET-SS 2x RJ45(10/100 "Mbit) ""PROFINET CBA; security""" "(firewall/VPN); PROFIenergy"

Figure similar

Transfer rate	
Transfer rate	
• at the 1st interface	10 1000 Mbit/s
• at the 2nd interface	10 100 Mbit/s
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Interfaces	
Number of interfaces / acc. to Industrial Ethernet	3
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	1
• at the 2nd interface / acc. to Industrial Ethernet	2
• for power supply	1
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
• at the 2nd interface / acc. to Industrial Ethernet	RJ45 port
Type of electrical connection	
• for power supply	2-pole plugable terminal block
design of the removable storage / C-PLUG	Yes

Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / 1 / from backplane bus	5 V
Supply voltage / external	24 V
Supply voltage / external / at DC / Rated value	24 V
Relative positive tolerance / at DC / at 24 V	20 %
Relative negative tolerance / at DC / at 24 V	15 %
Consumed current	
• from backplane bus / at DC / at 5 V / typical	0.14 A
 from external supply voltage / at DC / at 24 V / typical 	0.48 A
 from external supply voltage / at DC / at 24 V / maximum 	0.62 A
Power loss [W]	14.7 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
Installation altitude / at height above sea level /	5000 m
maximum	0000 111
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	
Module format	Compact module
Width	80 mm
Height	125 mm
Depth	120 mm
Net weight	0.8 kg
Mounting type	O.O Ng
• S7-300 rail mounting	Yes
Performance data / open communication	
Number of possible connections / for open	16
communication / by means of SEND/RECEIVE	
blocks / maximum	
Amount of data	
 as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
 as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
 as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
 as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum 	2 Kibyte
Number of Multicast stations	16
Performance data / S7 communication	
Number of possible connections / for S7	
communication	
• maximum	16
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol mode	48

Performance data / IT functions	
Number of possible connections	
as client / by means of FTP / maximum	10
• as server / by means of FTP / maximum	2
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	8 Kibyte
Storage capacity / of the user memory	
 as flash memory file system 	28 Mibyte
• as RAM	30 Mibyte
Number of possible write cycles / of the flash memory cells	100000

Performance data / PROFINET communication / as	PN IO controller
Product function / PROFINET IO controller	Yes
Number of PN IO devices / on PROFINET IO	128
controller / usable / total	
Number of PN IO IRT devices / on PROFINET IO	128
controller / usable	
Number of external PN IO lines / with PROFINET /	1
per rack	
Amount of data	
• as user data for input variables / as PROFINET	4 Kibyte
IO controller / maximum	
• as user data for input variables / as PROFINET	4 Kibyte
IO controller / maximum	
 as user data for input variables per PN IO 	1433 byte
device / as PROFINET IO controller / maximum	
• as user data for output variables per PN IO	1433 byte
device / as PROFINET IO controller / maximum	
• as user data for input variables per PN IO	240 byte
device / for each sub-module as PROFINET IO	
controller / maximum	
• as user data for output variables per PN IO	240 byte
device / for each sub-module as PROFINET IO	
controller / maximum	

Performance data / PROFINET communication / as PN IO device	
Product function / PROFINET IO device	Yes
Amount of data	
 as user data for input variables / as PROFINET IO device / maximum 	1024 byte
 as user data for input variables / as PROFINET IO device / maximum 	1024 byte

 as user data for input variables / for each sub- module as PROFINET IO device 	240 byte
 as user data for input variables / for each sub- module as PROFINET IO device 	240 byte
 as user data for the consistency area for each sub-module 	240 byte
Number of submodules / per PROFINET IO-Device	32

Performance data / PROFINET CBA	
Number of remote connection partners / with PROFINET CBA	64
Number of connections / with PROFINET CBA / total	1000
Amount of data	
 as user data for digital inputs / with PROFINET CBA / maximum 	8 Kibyte
 as user data for digital outputs / with PROFINET CBA / maximum 	8 Kibyte
 as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum 	8 Kibyte
 as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum 	250 byte
 as user data for arrays and data types / with PROFINET CBA / in the case of local interconnection / maximum 	2400 byte

Performance data / PROFINET CBA / remote interc	onnection / with acyclic transfer
Refresh time / of the remote interconnections / in the	100 ms
case of acyclic transmission / with PROFINET CBA	
Number of remote connections to input variables / in	128
the case of acyclic transmission / with PROFINET	
CBA / maximum	
Number of remote connections to output variables /	128
in the case of acyclic transmission / with PROFINET CBA / maximum	
Amount of data	
as user data for remote interconnections with	8 Kibyte
input variables / in the case of acyclic	
transmission / with PROFINET CBA	
 as user data for remote interconnections with 	8 Kibyte
output variables / in the case of acyclic	
transmission / with PROFINET CBA	

Performance data / PROFINET CBA / remote interconnection / with cyclic transfer	
Refresh time / of the remote interconnections / with	8 ms
PROFINET CBA / with cyclical transfer	

Number of remote connections to input variables / with PROFINET CBA / with cyclical transfer / maximum	200
Number of remote connections to output variables / with PROFINET CBA / with cyclical transfer / maximum	200
Amount of data	
 as user data for remote interconnections with input variables / with PROFINET CBA / with cyclical transfer / maximum 	2000 byte
 as user data for remote interconnections with output variables / with PROFINET CBA / with cyclical transfer / maximum 	2000 byte
Performance data / PROFINET CBA / HMI variable	s via PROFINET / acyclic
Number of connectable HMI stations / for HMI variables / in the case of acyclic transmission / with PROFINET CBA	3
Refresh time / of the HMI variables / in the case of acyclic transmission / with PROFINET CBA	500 ms
Number of HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	200
Amount of data / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte
Performance data / PROFINET CBA / device-intern	al interconnections
Number of internal connections / with PROFINET CBA / maximum	256
Amount of data / of the internal connections / with PROFINET CBA / maximum	2400 byte
Performance data / PROFINET CBA / interconnecti	ons to constants
Number of connections with constants / with PROFINET CBA / maximum	200
Amount of data / as user data for interconnections with constants / with PROFINET CBA / maximum	4096 byte
Performance data / PROFINET CBA / PROFIBUS	proxy functionality
Product function / with PROFINET CBA / PROFIBUS proxy functionality	No
Performance data / telecontrol	
Protocol / is supported	
• TCP/IP	Yes
Product functions / management, configuration, eng	gineering
Product function / MIB support	Yes
Protocol / is supported	

• SNMP v1	Yes
• SNMP v3	Yes
• DCP	Yes
• LLDP	Yes
Configuration software	
• required	STEP7 V5.5 SP2 HF1 or higher / STEP 7 Professional V12 (TIA Portal) or higher
for PROFINET CBA / required	SIMATIC iMap V3.0 SP4 and 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
Product functions / Switch Product feature / Switch	Yes
Product function	1 53
	No
• switch-managed	Yes
• with IRT / PROFINET IO switch	
Configuration with STEP 7	Yes
Product functions / redundancy	
Product function	
 Ring redundancy 	Yes
 Redundancy manager 	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
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	32
Product function	
 password protection for Web applications 	Yes
ACL - IP-based	Yes
ACL - IP-based for PLC/routing	Yes
switch-off of non-required services	Yes
·	
 Blocking of communication via physical ports 	Yes

• log file for unauthorized access

No

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 SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

Security information

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