# **SIEMENS**

## Data sheet

#### product type designation

# 6AG1343-1GX31-4XE0



### 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
interfaces	
number of interfaces / acc. to Industrial Ethernet	3
number of electrical connections	
<ul> <li>at the 1st interface / acc. to Industrial Ethernet</li> </ul>	1
• at the 2nd interface / acc. to Industrial Ethernet	2
<ul> <li>for power supply</li> </ul>	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	
<ul> <li>for power supply</li> </ul>	2-pole plugable terminal block
design of the removable storage / C-PLUG	Yes

DC
5 V
24 V
24 V
20 %
15 %
0.14 A
0.48 A
0.62 A
14.7 W
0 40 °C
0 60 °C
-40 +70 °C
-40 +70 °C
5000 m
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)
100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
Yes; incl. airborne diesel and oil droplets
Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
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.
remain in place on 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	Oursess travel de
module format	Compact module
width	80 mm
height	125 mm
depth	120 mm
net weight	0.8 kg
mounting type	
• 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	
<ul> <li>as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	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	48
mode	

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performance data / IT functions	
number of possible connections	
• as client / by means of FTP / maximum	10
<ul> <li>as server / by means of FTP / maximum</li> </ul>	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	100000
cells	10000
performance data / PROFINET communication / as	
product function / PROFINET IO controller	Yes
number of PN IO devices / on PROFINET IO	128
controller / usable / total	100
number of PN IO IRT devices / on PROFINET IO controller / usable	128
number of external PN IO lines / with PROFINET /	1
per rack	
amount of data	
<ul> <li>as user data for input variables / as PROFINET</li> </ul>	4 Kibyte
IO controller / maximum	
<ul> <li>as user data for input variables / as PROFINET</li> </ul>	4 Kibyte
IO controller / maximum	
<ul> <li>as user data for input variables per PN IO</li> </ul>	1433 byte
device / as PROFINET IO controller / maximum	
<ul> <li>as user data for output variables per PN IO</li> </ul>	1433 byte
device / as PROFINET IO controller / maximum	
<ul> <li>as user data for input variables per PN IO</li> </ul>	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	1024 byte
IO device / maximum	
as user data for input variables / as PROFINET	1024 byte
IO device / maximum	



<ul> <li>as user data for input variables / for each sub- module as PROFINET IO device</li> </ul>	240 byte
<ul> <li>as user data for input variables / for each sub- module as PROFINET IO device</li> </ul>	240 byte
<ul> <li>as user data for the consistency area for each sub-module</li> </ul>	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	
<ul> <li>as user data for digital inputs / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data for digital outputs / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum</li> </ul>	250 byte
<ul> <li>as user data for arrays and data types / with PROFINET CBA / in the case of local interconnection / maximum</li> </ul>	2400 byte
performance data / PROFINET CBA / remote interc	connection / with acyclic transfer
refresh time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA	100 ms
number of remote connections to input variables / in the case of acyclic transmission / with PROFINET CBA / maximum	128
number of remote connections to output variables / in the case of acyclic transmission / with PROFINET CBA / maximum	128
amount of data	
<ul> <li>as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	8 Kibyte
<ul> <li>as user data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	8 Kibyte
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			
<ul> <li>as user data for remote interconnections with</li> </ul>	2000 byte		
	2000 byte		
input variables / with PROFINET CBA / with			
cyclical transfer / maximum			
<ul> <li>as user data for remote interconnections with</li> </ul>	2000 byte		
output variables / with PROFINET CBA / with			
cyclical transfer / maximum			
, ,			
performance data / PROFINET CBA / HMI variables	s via PROFINET / acyclic		
number of connectable HMI stations / for HMI	3		
variables / in the case of acyclic transmission / with			
PROFINET CBA			
refresh time / of the HMI variables / in the case of	500 ms		
acyclic transmission / with PROFINET CBA			
number of HMI variables / in the case of acyclic	200		
transmission / with PROFINET CBA / maximum			
amount of data / as user data for HMI variables / in	8 Kibyte		
the case of acyclic transmission / with PROFINET			
CBA / maximum			
performance data / PROFINET CBA / device-intern	al interconnections		
number of internal connections / with PROFINET	256		
CBA / maximum			
amount of data / of the internal connections / with	2400 byte		
PROFINET CBA / maximum			
performance data / PROFINET CBA / interconnection	ons to constants		
number of connections with constants / with	200		
PROFINET CBA / maximum			
amount of data / as user data for interconnections	4096 byte		
with constants / with PROFINET CBA / maximum	4090 Byte		
with constants / with PROFINET CDA / maximum			
performance data / PROFINET CBA / PROFIBUS r	performance data / PROFINET CBA / PROFIBUS proxy functionality		
product function / with PROFINET CBA / PROFIBUS	No		
proxy functionality			
proxy renotionality			
performance data / telecontrol			
protocol / is supported			
• TCP/IP	Yes		
product functions / management, configuration, engineering			
product functions / MIB support	Yes		
protocol / is supported			

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• 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
<ul> <li>for PROFINET CBA / required</li> </ul>	SIMATIC iMap V3.0 SP4 and higher
identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	Yes
designation	
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / switch	
product functions / switch	Yes
product function	
switch-managed	No
with IRT / PROFINET IO switch	Yes
	Yes
<ul> <li>configuration with STEP 7</li> </ul>	res
product functions / redundancy	
product function	
<ul> <li>ring redundancy</li> </ul>	Yes
<ul> <li>redundancy manager</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product functions / security	
product functions / security firewall version	stateful inspection
	stateful inspection IPSec
firewall version	
firewall version product function / with VPN connection	IPSec
firewall version product function / with VPN connection type of encryption algorithms / with VPN connection type of authentication procedure / with VPN	IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56
firewall version product function / with VPN connection type of encryption algorithms / with VPN connection type of authentication procedure / with VPN connection	IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates
firewall version product function / with VPN connection type of encryption algorithms / with VPN connection type of authentication procedure / with VPN connection type of hashing algorithms / with VPN connection number of possible connections / with VPN	IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1
firewall version product function / with VPN connection type of encryption algorithms / with VPN connection type of authentication procedure / with VPN connection type of hashing algorithms / with VPN connection number of possible connections / with VPN connection	IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1
firewall version product function / with VPN connection type of encryption algorithms / with VPN connection type of authentication procedure / with VPN connection type of hashing algorithms / with VPN connection number of possible connections / with VPN connection product function	IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1 32
firewall version product function / with VPN connection type of encryption algorithms / with VPN connection type of authentication procedure / with VPN connection type of hashing algorithms / with VPN connection number of possible connections / with VPN connection product function • password protection for Web applications • ACL - IP-based	IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1 32 Yes
firewall version product function / with VPN connection type of encryption algorithms / with VPN connection type of authentication procedure / with VPN connection type of hashing algorithms / with VPN connection number of possible connections / with VPN connection product function • password protection for Web applications • ACL - IP-based • ACL - IP-based for PLC/routing	IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1 32 Yes Yes
firewall version product function / with VPN connection type of encryption algorithms / with VPN connection type of authentication procedure / with VPN connection type of hashing algorithms / with VPN connection number of possible connections / with VPN connection product function • password protection for Web applications • ACL - IP-based	IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1 32 Yes Yes Yes



• log file for unauthorized access

No

ů.	
product functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
further information / internet-Links	
Harther Information / Internet-Links	

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

http://automation.siemens.com/bilddb

https://support.industry.siemens.com

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

https://mall.industry.siemens.com

Internet-Link

- to website: Selector TIA 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

#### security information

security information

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