



Spare part SIPLUS NET CP 343-1 Advanced for medial exposure with conformal coating based on 6GK7343-1GX30-0XE0 . Communications processor for Connection of SIMATIC S7-300CPU to Ind. Ethernet:PROFINET IO- Controller or/and IO-Device RT and IRT, MRP, PROFINET CBA TCP/IP,ISO,UDP,S7 COM, S5-comp. KOM.(Send/Receive)M.Fetch/Write with and without RFC 1006, MULTICAST Diagnostic extension,SNMP,DHCP, FTP client/server, Email, Data storage on C plug PROFINET-SS 2x RJ45(10/100 Mbit) SWITCH, Gigabit interface 1x RJ45 (10/100/1000 MB)

Transmission rate

Transfer rate

- | | |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <ul style="list-style-type: none"> • at the 1st interface • at the 2nd interface | <p>10 ... 1000 Mbit/s</p> <p>10 ... 100 Mbit/s</p> |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------|

Interfaces

Number of interfaces / acc. to Industrial Ethernet	3
Number of electrical connections	
<ul style="list-style-type: none"> • at the 1st interface / acc. to Industrial Ethernet • at the 2nd interface / acc. to Industrial Ethernet • for power supply 	<p>1</p> <p>2</p> <p>1</p>
Type of electrical connection	
<ul style="list-style-type: none"> • at the 1st interface / acc. to Industrial Ethernet • at the 2nd interface / acc. to Industrial Ethernet • of Industrial Ethernet interface • for power supply 	<p>RJ45 port</p> <p>RJ45 port</p> <p>RJ45 port</p> <p>2-pole plugable terminal block</p>
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	24 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

Permitted ambient conditions	
Ambient temperature	
• during operation	0 ... 60 °C
• 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
Ambient condition / relating to ambient temperature - air pressure - installation altitude	0 ... +60°C at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // 0 ... +50°C at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // 0 ... +40°C at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity / with condensation / maximum	100 %; r.F., incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance to biologically active substances	
• conformity acc. to EN 60721-3-3	Yes; Compliance with EN 60721-3-3, Class 3B2 mold, fungus, and sponge spores (except fauna). The supplied plug covers must remain in place over the unused interfaces during operation!
Resistance to chemically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3). The supplied plug covers must remain in place over the unused interfaces during operation!
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!
Protection class IP	IP20

Design, dimensions and weight	
Module format	Compact module S7-300 double width
Width	80 mm
Height	125 mm
Depth	120 mm
Net weight	0.6 kg

Performance data / open communication	
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 RAM	30 Miabyte
Number of possible write cycles / of the flash memory cells	100000
Performance data / PROFINET communication / as PN IO-Controller	
Number of external PN IO lines / with PROFINET / per rack	1
Amount of data	
• as user data for input variables / as PROFINET IO controller / maximum	4 Kibyte
• as user data for input variables / as PROFINET IO controller / maximum	4 Kibyte
• as user data for input variables per PN IO device / as PROFINET IO controller / maximum	240 byte
• as user data for output variables per PN IO device / as PROFINET IO controller / maximum	240 byte
Performance data / PROFINET communication / as PN IO-Device	
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

<ul style="list-style-type: none"> • as user data for input variables / for each sub-module as PROFINET IO device 	240 byte
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • as user data for digital inputs / with PROFINET CBA / maximum 	8 Kibyte
<ul style="list-style-type: none"> • as user data for digital outputs / with PROFINET CBA / maximum 	8 Kibyte
<ul style="list-style-type: none"> • as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum 	8 Kibyte
<ul style="list-style-type: none"> • as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum 	250 byte
<ul style="list-style-type: none"> • 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 connection / with acyclic transmission

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 style="list-style-type: none"> • as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA 	8 Kibyte
<ul style="list-style-type: none"> • as user data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA 	8 Kibyte

Performance data / PROFINET CBA / remote connection / with cyclical transmission

Refresh time / of the remote interconnections / with PROFINET CBA / with cyclical transfer	8 ms
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 style="list-style-type: none"> • as user data for remote interconnections with input variables / with PROFINET CBA / with cyclical transfer / maximum • as user data for remote interconnections with output variables / with PROFINET CBA / with cyclical transfer / maximum 	2000 byte 2000 byte

Performance data / PROFINET CBA / HMI variables 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-internal connections

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 / connections 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 <ul style="list-style-type: none"> • TCP/IP 	Yes
Product function / MIB support	Yes
Protocol / is supported <ul style="list-style-type: none"> • SNMP v1 • DCP • LLDP 	Yes Yes Yes
Configuration software	

- required
- for PROFINET CBA / required

STEP 7 V5.4 SP4 or higher
SIMATIC iMap V3.0 SP1 and higher

Product functions / switch

Product feature / Switch	Yes
Product function	
<ul style="list-style-type: none"> • with IRT / PROFINET IO switch 	Yes
<ul style="list-style-type: none"> • Configuration with STEP 7 	Yes

Product functions / Redundancy

Product function	
<ul style="list-style-type: none"> • Ring redundancy 	Yes
<ul style="list-style-type: none"> • Redundancy manager 	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes

Product functions / Security

Product function	
<ul style="list-style-type: none"> • ACL - IP-based 	Yes
<ul style="list-style-type: none"> • ACL - IP-based for PLC/routing 	Yes
<ul style="list-style-type: none"> • switch-off of non-required services 	Yes

Product functions / Time

Product function / SICLOCK support	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • NTP 	Yes

Accessories

Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax

last modified:

05/16/2018