

Product type designation

SIPLUS NET CP 343-1

SIPLUS NET CP 343-1 -25...+70 °C with conformal coating based on 6GK7343-1EX30-0XE0 . Communications processor for connection of SIMATIC S7-300 to Industrial Ethernet via ISO and TCP/IP, PROFINET IO controller or PROFINET IO device, Integrated 2-port switch ERTEC 200, S7 communication, fetch/write, Send/Receive with and without RFC1006, MULTICAST DHCP, NTC-CPU Sync, diagnostics, initialization via LAN, 2x RJ45 connection for LAN with 10/100 Mbit/s



Transmission rate

Transfer rate

- at the 1st interface

10 ... 100 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet

2

Number of electrical connections

- at the 1st interface / acc. to Industrial Ethernet
- for power supply

2

1

Type of electrical connection

- at the 1st interface / acc. to Industrial Ethernet
- of Industrial Ethernet interface
- for power supply

RJ45 port

RJ45 port

2-pole plugable terminal block

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	0.2 A
• from external supply voltage / at DC / at 24 V / typical	0.16 A
• from external supply voltage / at DC / at 24 V / maximum	0.2 A
Power loss [W]	5.8 W

Ambient conditions

Ambient temperature	
• during operation	-25 ... +70 °C
• for horizontally arranged busbars / during operation	-25 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• in horizontal mounting position / during operation	70 ... -25 °C
• during storage and transport	70 ... -40 °C
Installation altitude / at height above sea level / maximum	5000 m
Relative humidity	
• with condensation / maximum	100 %; r.F., incl. condensation/frost permitted (no commissioning in bedewed state)
• with condensation / acc. to IEC 60068-2-38 / maximum	100 %
Resistance to biologically active substances	
• conformity acc. to EN 60721-3-3	Yes
• conformity acc. to EN 60721-3-6	Yes
Resistance to chemically active substances	
• conformity acc. to EN 60721-3-3	Yes
• conformity acc. to EN 60721-3-6	Yes
Resistance to mechanically active substances	
• conformity acc. to EN 60721-3-3	Yes
• conformity acc. to EN 60721-3-6	Yes
Coating / for equipped printed circuit board / acc. to EN 61086	Yes
Type of coating / protection against pollution according to EN 60664-3	Yes
Type of test / of the coating / acc. to MIL-I-46058C	Yes
Product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes

Protection class IP	IP20
Design, dimensions and weight	
Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.22 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	32
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	1 Kibyte
• as user data for input variables / as PROFINET IO controller / maximum	1 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	512 byte
• as user data for input variables / as PROFINET IO device / maximum	512 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

Product functions / management, configuration	
Product function / MIB support	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SNMP v1 • DCP • LLDP 	Yes Yes Yes
Configuration software	
<ul style="list-style-type: none"> • required 	STEP 7 V5.4 SP2 or higher

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

Product functions / Redundancy	
Product function	
<ul style="list-style-type: none"> • Ring redundancy • Redundancy manager 	Yes No
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes

Product functions / Security	
Product function	
<ul style="list-style-type: none"> • ACL - IP-based • ACL - IP-based for PLC/routing • switch-off of non-required services 	Yes No Yes

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

Further Information / Internet Links	
Internet-Link	
<ul style="list-style-type: none"> • 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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