

### 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
- from external supply voltage / at DC / at 24 V / typical
- from external supply voltage / at DC / at 24 V / maximum

0.2 A

0.16 A

0.2 A

#### Power loss [W]

5.8 W

### Permitted ambient conditions

#### Ambient temperature

<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +70 °C
<ul style="list-style-type: none"> <li>• for horizontally arranged busbars / during operation</li> </ul>	-25 ... +70 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +70 °C
Ambient condition / relating to ambient temperature - air pressure - installation altitude	-25 ... +70°C at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // -25 ... +60°C at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // -25 ... +50°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 <ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3</li> </ul>	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 <ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3</li> </ul>	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 <ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3</li> </ul>	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 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
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#### Performance data / S7 communication

Number of possible connections / for S7 communication <ul style="list-style-type: none"> <li>• maximum</li> </ul>	16
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#### Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	32
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#### Performance data / PROFINET communication / as PN IO-Controller

Number of external PN IO lines / with PROFINET / per rack	1
Amount of data <ul style="list-style-type: none"> <li>• as user data for input variables / as PROFINET IO controller / maximum</li> </ul>	1 Kibyte

<ul style="list-style-type: none"> <li>• as user data for input variables / as PROFINET IO controller / maximum</li> </ul>	1 Kibyte
<ul style="list-style-type: none"> <li>• as user data for input variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>• as user data for output variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	240 byte

#### Performance data / PROFINET communication / as PN IO-Device

Amount of data	
<ul style="list-style-type: none"> <li>• as user data for input variables / as PROFINET IO device / maximum</li> </ul>	512 byte
<ul style="list-style-type: none"> <li>• as user data for input variables / as PROFINET IO device / maximum</li> </ul>	512 byte
<ul style="list-style-type: none"> <li>• as user data for input variables / for each sub-module as PROFINET IO device</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>• as user data for input variables / for each sub-module as PROFINET IO device</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>• as user data for the consistency area for each sub-module</li> </ul>	240 byte
Number of submodules / per PROFINET IO-Device	32
Product function / MIB support	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• LLDP</li> </ul>	Yes
Configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 V5.4 SP2 or higher

#### Product functions / switch

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

#### Product functions / Redundancy

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

#### Product functions / Security

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

## Product functions / Time

Product function / SICLOCK support Yes

Protocol / is supported

- NTP Yes

## Accessories

## Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL <http://www.siemens.com/snst>
- to website: Industrial communication <http://www.siemens.com/simatic-net>
- to website: Industry Mall <https://mall.industry.siemens.com>
- to website: Information and Download Center <http://www.siemens.com/industry/infocenter>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <https://support.industry.siemens.com>

## Security information

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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