

### Product type designation

### SIPLUS NET CP343-1 LEAN

SIPLUS NET CP 343-1 Lean -25...+60°C with conformal coating based on 6GK7343-1CX10-0XE0 . Communications processor for connection of SIMATIC S7-300 to Ind. Ethernet via TCP/IP and UDP, MULTICAST, Send/Receive with and without RFC1006, fetch/ write, S7 communication (server) PROFINET IO device integrated 2-port switch ERTEC 200, Size exchange without PG, SNMP diagnostics, Initialization via LAN, 2x RJ45 connection for LAN with 10/100 Mbit/s



### Transfer 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

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

RJ45 port

RJ45 port

#### Type of electrical connection

- for power supply

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	
<ul style="list-style-type: none"> <li>• from backplane bus / at DC / at 5 V / typical</li> </ul>	0.2 A
<ul style="list-style-type: none"> <li>• from external supply voltage / at DC / at 24 V / typical</li> </ul>	0.16 A
<ul style="list-style-type: none"> <li>• from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.2 A
Power loss [W]	5.8 W

### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• for vertical installation / during operation</li> </ul>	-25 ... +40 °C
<ul style="list-style-type: none"> <li>• for horizontally arranged busbars / during operation</li> </ul>	-25 ... +60 °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
Installation altitude / at height above sea level / maximum	5000 m
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	
<ul style="list-style-type: none"> <li>• with condensation / acc. to IEC 60068-2-38 / maximum</li> </ul>	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	
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
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 in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-6</li> </ul>	Yes
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.
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-6</li> </ul>	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 S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.22 kg
Mounting type <ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	Yes

#### Performance data / open communication

Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	8
Amount of data <ul style="list-style-type: none"> <li>• as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> <li>• as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> <li>• as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte 8 Kibyte 2 Kibyte
Number of Multicast stations	8

#### Performance data / S7 communication

Number of possible connections / for S7 communication <ul style="list-style-type: none"> <li>• maximum</li> </ul>	4
Service <ul style="list-style-type: none"> <li>• of SIMATIC communication / as server</li> </ul>	Yes

#### Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	12
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#### Performance data / PROFINET communication / as PN IO controller

Product function / PROFINET IO controller	No
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#### Performance data / PROFINET communication / as PN IO device

Product function / PROFINET IO device	Yes
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

### Performance data / telecontrol

Protocol / is supported	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	Yes

### Product functions / management, configuration, engineering

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 or higher / STEP 7 Professional V11 (TIA Portal) or higher
Identification & maintenance function	
<ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M1 – higher-level designation/location designation</li> </ul>	Yes

### Product functions / Diagnostics

Product function / Web-based diagnostics	Yes
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### Product functions / Switch

Product feature / Switch	Yes
Product function	
<ul style="list-style-type: none"> <li>• switch-managed</li> </ul>	No
<ul style="list-style-type: none"> <li>• with IRT / PROFINET IO switch</li> </ul>	No
<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
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### Product functions / Security

Product function	
<ul style="list-style-type: none"> <li>• password protection for Web applications</li> </ul>	No
<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
<ul style="list-style-type: none"> <li>• Blocking of communication via physical ports</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• log file for unauthorized access</li> </ul>	No

### Product functions / time

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

### Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### Security information

Security information	<p>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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>
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