

product type designation



CP 343-1

SIPLUS NET CP 343-1 based on 6GK7343-1EX30-0XE0 with conformal coating, -25...+70 °C, 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,

transfer rate	
transfer rate	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	2
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet for power supply 	2 1
type of electrical connection	
<ul style="list-style-type: none"> of Industrial Ethernet interface at the 1st interface / according to Industrial Ethernet 	RJ45 port RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> 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"> 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
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport 	-25 ... +70 °C -40 ... +70 °C -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"> with condensation / according to IEC 60068-2-38 / maximum 	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"> conformity according to EN 60721-3-3 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
<ul style="list-style-type: none"> conformity according to EN 60721-3-6 	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
<ul style="list-style-type: none"> conformity according to EN 60721-3-3 	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"> conformity according to EN 60721-3-6 	Yes
resistance to mechanically active substances	
<ul style="list-style-type: none"> conformity according 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.
<ul style="list-style-type: none"> conformity according 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 / according 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 / according 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 according 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
performance data / open communication	
number of Multicast stations	16
performance data / S7 communication	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> 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
data volume	
<ul style="list-style-type: none"> as user data for input variables / as PROFINET IO controller / maximum 	1 Kibyte
<ul style="list-style-type: none"> as user data for output variables / as PROFINET IO controller / maximum 	1 Kibyte
<ul style="list-style-type: none"> as user data for input variables per PN IO device / as PROFINET IO controller / maximum 	240 byte
<ul style="list-style-type: none"> 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	
data volume	
<ul style="list-style-type: none"> as user data for input variables / as PROFINET IO device / maximum 	512 byte
<ul style="list-style-type: none"> as user data for output variables / as PROFINET IO device / maximum 	512 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 output 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
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	
<ul style="list-style-type: none"> SNMP v1 	Yes
<ul style="list-style-type: none"> DCP 	Yes
<ul style="list-style-type: none"> LLDP 	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 	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 	No
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 	No
<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
standards, specifications, approvals	
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2:2019 	KEC
further information / internet links	
internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAx-Download-Manager 	https://siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com
security information	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>

Approvals / Certificates

General Product Approval

[Miscellaneous](#)



[Manufacturer Declaration](#)



[KC](#)

EMV For use in hazardous locations



[CCC-Ex](#)



last modified:

2/28/2025



ماكان كنترول