

Data sheet

6AG1343-1EX30-7XE0

product type designation



CP 343-1

spare part 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,

Technical Product Detail Page

<https://i.siemens.com/1P6AG1343-1EX30-7XE0>

transfer rate

transfer rate	10 ... 100 Mbit/s
• at the 1st interface	

interfaces

number of interfaces / according to Industrial Ethernet	2
number of electrical connections	
• at the 1st interface / according to Industrial Ethernet	2
• for power supply	1
type of electrical connection	
• of Industrial Ethernet interface	RJ45 port
• at the 1st interface / according to Industrial Ethernet	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	
• 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
• during storage	-40 ... +70 °C
• during transport	-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	
• 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 • conformity according to EN 60721-3-6 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request 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 • conformity according to EN 60721-3-6 	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. Yes
resistance to mechanically active substances <ul style="list-style-type: none"> • conformity according to EN 60721-3-3 • conformity according to EN 60721-3-6 	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation. 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 • as user data for output variables / as PROFINET IO controller / maximum • as user data for input variables per PN IO device / as PROFINET IO controller / maximum • as user data for output variables per PN IO device / as PROFINET IO controller / maximum 	1 Kibyte 1 Kibyte 240 byte 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 • as user data for output variables / as PROFINET IO device / maximum • as user data for input variables / for each sub-module as PROFINET IO device • as user data for output variables / for each sub-module as PROFINET IO device • as user data for the consistency area for each sub-module 	512 byte 512 byte 240 byte 240 byte 240 byte
number of submodules / per PROFINET IO-Device	32
product functions / management, configuration, engineering	
product function / MIB support	Yes

protocol / is supported		
• SNMP v1	Yes	
• DCP	Yes	
• LLDP	Yes	
configuration software		
• required	STEP 7 V5.4 SP2 or higher	
product functions / switch		
product feature / switch	Yes	
product function		
• with IRT / PROFINET IO switch	Yes	
• configuration with STEP 7	Yes	
product functions / redundancy		
product function		
• ring redundancy	Yes	
• redundancy manager	No	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes	
product functions / security		
product function		
• ACL - IP-based	Yes	
• ACL - IP-based for PLC/routing	No	
• switch-off of non-required services	Yes	
product functions / time		
product function / SICLOCK support	Yes	
protocol / is supported		
• NTP	Yes	
further information / internet links		
internet link		
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	
• to website: Industrial communication	https://www.siemens.com/simatic-net	
• to web page: SiePortal	https://sieportal.siemens.com/	
• to website: Image database	https://www.automation.siemens.com/bilddb	
• to website: CAx-Download-Manager	https://siemens.com/cax	
• to website: Industry Online Support	https://support.industry.siemens.com	
security information		
security information		
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Approvals / Certificates

General Product Approval



EG-Konf.

[Manufacturer Declaration](#)



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[KC](#)

EMV

For use in hazardous locations



[CCC-Ex](#)



last modified:

10/28/2025 