SIEMENS

Data sheet

6GK7343-1CX10-0XE0

product type designation



CP 343-1 Lean

Communications processor CP 343-1 Lean for connection of SIMATIC S7-300 to Industrial 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, Module replacement 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 / 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	
 for vertical installation / during operation 	0 40 °C
 for horizontally arranged busbars / during operation 	0 60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
relative humidity	
 at 25 °C / without condensation / during operation / maximum 	95 %
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
fastening method	0.22 Ng
S7-300 rail mounting	Yes
performance data / open communication	
number of possible connections / for open communication / by	8
means of SEND/RECEIVE blocks / maximum	
data volume	
 as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
 as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
 as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum 	2 Kibyte
number of Multicast stations	8
performance data / S7 communication	
number of possible connections / for S7 communication	
maximum	4
service	
of SIMATIC communication / as server	Yes
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	12
performance data / PROFINET communication / as PN IO contro	
product function / PROFINET IO controller	No
performance data / PROFINET communication / as PN IO device	
product function / PROFINET IO device	Yes
 data volume as user data for input variables / as PROFINET IO device / maximum 	512 byte
as user data for output 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 output 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
performance data / telecontrol	
protocol / is supported	Von
TCP/IP product functions / management, configuration, engineering	Yes
product function / MIB support	Yes
protocol / is supported	100
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
configuration software	
• required	STEP 7 V5.4 or higher / STEP 7 Professional V11 (TIA Portal) or higher
identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 - higher level designation/location designation	Yes
product functions / diagnostics	
product function / web-based diagnostics product functions / switch	Yes
product feature / switch	Yes
product function	
switch-managed	No
with IRT / PROFINET IO switch	No
configuration with STEP 7	Yes
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product functions / redundancy	
product function	
• ring redundancy	Yes
redundancy manager	No
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product functions / security	
product function	
password protection for Web applications	No
ACL - IP-based	Yes
ACL - IP-based for PLC/routing	No
switch-off of non-required services	Yes
blocking of communication via physical ports	Yes
 log file for unauthorized access 	No
product functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
certificate of suitability / CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
further information / internet links	
internet link	
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	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)

Approvals / Certificates

General Product Approval

Manufacturer Declaration



Declaration of Conformity







General Product Approval

EMV

For use in hazardous locations



<u>KC</u>





<u>FM</u>

CCC-Ex

For use in hazardous locations

Marine / Shipping

other

Environment





Confirmation

Confirmation



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