SIEMENS

Data sheet

6GK7343-1EX30-0XE0

product type designation



CP 343-1

Communications processor CP 343-1 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 RFC1006, multicast, DHCP, NTC- CPU sync, with and without 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

h-i-hi	405
height	125 mm
depth	120 mm
net weight	0.22 kg
fastening method	
S7-300 rail mounting	Yes
performance data / open communication	40
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
data volume	
 as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
 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	16
performance data / S7 communication	
number of possible connections / for S7 communication	
maximum	16
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	32
performance data / PROFINET communication / as PN IO contro	
number of PN IO devices / on PROFINET IO controller / operable / total	32
number of external PN IO lines / with PROFINET / per rack	1
data volume	
 as user data for input variables / as PROFINET IO controller / maximum 	1 Kibyte
 as user data for output variables / as PROFINET IO controller / maximum 	1 Kibyte
 as user data for input variables per PN IO device / as PROFINET IO controller / maximum 	1433 byte
 as user data for output variables per PN IO device / as PROFINET IO controller / maximum 	1433 byte
 as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum 	240 byte
 as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum 	240 byte
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	512 byte
/ maximum • as user data for output variables / as PROFINET IO	512 byte
device / maximum • 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	
• TCP/IP	Yes
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 / 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
roduct functions / diagnostics	
product function / web-based diagnostics	Yes
roduct functions / switch	
product feature / switch	Yes
product function	
switch-managed	No
with IRT / PROFINET IO switch	Yes
• configuration with STEP 7	Yes
roduct functions / redundancy	
product function	
• ring redundancy	Yes
redundancy redundancy manager	No
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
	165
roduct functions / security	
product function	No
 password protection for Web applications ACL - IP-based 	No Voc
	Yes
ACL - IP-based for PLC/routing Action of the properties o	No
switch-off of non-required services	Yes
blocking of communication via physical ports	Yes
log file for unauthorized access	No
roduct functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
tandards, specifications, approvals	
reference code	
• according to IEC 81346-2:2019	KEC
urther information / internet links	
internet link	
 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://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
ecurity information	
security information	Siemens provides products and solutions with industrial cybersecurity function 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 in 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 strongl 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
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Declaration of Conformity









EMV

For use in hazardous locations

<u>KC</u>





<u>FM</u>

CCC-Ex



Marine / Shipping

Environment



Confirmation

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