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

height	125 mm
depth	120 mm
net weight	0.22 kg
fastening method	0.11 Ng
S7-300 rail mounting	Yes
performance data / open communication	
number of possible connections / for open communication / by	16
means of SEND/RECEIVE blocks / maximum	10
data volume	
as user data per ISO connection / for open	8 Kibyte
communication / by means of SEND/RECEIVE blocks / maximum	
	9 Kibuto
 as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / 	8 Kibyte
maximum	
as user data per TCP connection / for open servery righting / by manage of SEND/DESEN/E blocks /	8 Kibyte
communication / by means of SEND/RECEIVE blocks / maximum	
as user data per UDP connection / for open IE	2 Kibyte
communication / by means of SEND/RECEIVE blocks /	
maximum	16
number of Multicast stations	16
performance data / S7 communication	
number of possible connections / for S7 communication • maximum	16
maximum performance data / multi-protocol mode	10
	32
number of active connections / with multi-protocol mode	32 Hor
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	1 Kibyte
controller / maximum	
 as user data for output variables / as PROFINET IO controller / maximum 	1 Kibyte
as user data for input variables per PN IO device / as	1433 byte
PROFINET IO controller / maximum	1400 byte
• as user data for output variables per PN IO device / as	1433 byte
PROFINET IO controller / maximum	
 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	240 byte
each sub-module as PROFINET IO controller / maximum	
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	240 byte
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

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	
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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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