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
<u> </u>	0.22 Ng
fastening method	Yes
S7-300 rail mounting Performance data / onen communication	Tes
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 /	32
operable / total	
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 / 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	
• TCP/IP	Yes
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes

security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
security information	Siemens provides products and solutions with industrial security functions that
to website: Industry Online Support	https://support.industry.siemens.com
to website: CAx-Download-Manager to website: Industry Online Support	http://www.siemens.com/cax
to website: Image database	http://automation.siemens.com/bilddb
to website: Information and Download Center to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Industry Mall to website: Information and Download Center	https://mall.industry.siemens.com
to website: Industrial communication to website: Industry Mell	http://www.siemens.com/simatic-net
to website: Industrial communication to website: Industrial communication	http://www.siemens.com/tia-selection-tool
internet link	
further information / internet links	
• as marking	Ex nA IIC T4 Gc
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
standards, specifications, approvals / hazardous environments	160
protocol / is supported • NTP	Yes
product function / pass on time synchronization	Yes
product function / SICLOCK support	Yes
product functions / time	Voo
log file for unauthorized access product functions / time	No
blocking of communication via physical ports log file for upoutborized access.	Yes
switch-off of non-required services blocking of communication via physical parts	Yes
ACL - IP-based for PLC/routing witch off of pan required applicable.	No
ACL - IP-based ACL - IP-based for PLC/routing	Yes
password protection for Web applications ACL UP beard	No
product function	
product functions / security	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
redundancy manager	No
• ring redundancy	Yes
product function	
product functions / redundancy	
configuration with STEP 7	Yes
 with IRT / PROFINET IO switch 	Yes
• switch-managed	No
product function	
product feature / switch	Yes
product functions / switch	
product function / web-based diagnostics	Yes
product functions / diagnostics	
I&M1 - higher level designation/location designation	Yes
 I&M0 - device-specific information 	Yes
identification & maintenance function	
• required	STEP 7 V5.4 SP2 or higher / STEP 7 Professional V11 (TIA Portal) or higher
configuration software	