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 with and without RFC1006, Multicast DHCP, NTC- CPU Sync, diagnostic, initialization via LAN, 2x RJ45 connection for LAN with 10/100 Mbit/s

Transmission rate	
Transfer rate	
at the 1st interface	10 100 Mbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	2
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	2
• for power supply	1
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
 of Industrial Ethernet interface 	RJ45 port
• for power supply	2-pole plugable terminal block
Supply voltage, current consumption, power loss	
	200
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
Permitted ambient conditions	
Ambient temperature	
• for vertical installation / during operation	0 40 °C
for horizontally arranged busbars / during	0 60 °C
operation	
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity / at 25 °C / without condensation /	95 %
during operation / maximum	
Protection class IP	IP20
Design, dimensions and weight	
Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.22 kg
Mounting type	
• S7-300 rail mounting	Yes
Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
Amount of data	
 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 	2 Kibyte
communication / by means of SEND/RECEIVE	
blocks / maximum	
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	32
mode	

Performance data / PROFINET communication / as	PN IO-Controller
Number of PN IO devices / on PROFINET IO	32
controller / usable / total	
Number of external PN IO lines / with PROFINET /	1
per rack	
Amount of data	
 as user data for input variables / as PROFINET 	1 Kibyte
IO controller / maximum	
• as user data for input variables / as PROFINET	1 Kibyte
IO controller / maximum	
as user data for input variables per PN IO	1433 byte
device / as PROFINET IO controller / maximum	
• as user data for output variables per PN IO	1433 byte
device / as PROFINET IO controller / maximum	
as user data for input variables per PN IO	240 byte
device / for each sub-module as PROFINET IO	
controller / maximum	
as user data for output variables per PN IO	240 byte
device / for each sub-module as PROFINET IO	
controller / maximum	

Performance data / PROFINET communication / as PN IO-Device	
Product function / PROFINET IO device	Yes
Amount of data	
 as user data for input variables / as PROFINET IO device / maximum 	512 byte
 as user data for input 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 input 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 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
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / switch	
Product feature / Switch	Yes
Product function	
switch-managed	No
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	
 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

Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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. Thirdparty 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)

last modified:

12/18/2018