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

transfer 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	
 of Industrial Ethernet interface 	RJ45 port
at the 1st interface / acc. 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
module format width	Compact module S7-300 single width 40 mm
height	125 mm
depth	120 mm
net weight	0.22 kg
fastening method	0.22 kg
S7-300 rail mounting	Yes
performance data / open communication	
number of possible connections / for open communication	16
/ by means of SEND/RECEIVE blocks / maximum	
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 c	controller
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 o	levice
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	ng
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 / diagnostics	
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
standards, specifications, approvals / hazardous environn	nents
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager	http://www.siemens.com/cax
to website: Industry Online Support	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. 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)

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