## SIEMENS

## Data sheet

Product type designation

## 6GK7343-1EX30-0XE0

## 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		
<ul> <li>at the 1st interface</li> </ul>	10 100 Mbit/s	
Interference		
Interfaces		
Number of interfaces / acc. to Industrial Ethernet	2	
Number of electrical connections		
• at the 1st interface / acc. to Industrial Ethernet	2	
<ul> <li>for power supply</li> </ul>	1	
Type of electrical connection		
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port	
<ul> <li>of Industrial Ethernet interface</li> </ul>	RJ45 port	
<ul> <li>for power supply</li> </ul>	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	
<ul> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	0.2 A
<ul> <li>from external supply voltage / at DC / at 24 V / typical</li> </ul>	0.16 A
<ul> <li>from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.2 A
Power loss [W]	5.8 W
Ambient conditions	
Ambient temperature	
<ul> <li>for vertical installation / during operation</li> </ul>	0 40 °C
<ul> <li>for horizontally arranged busbars / during</li> </ul>	0 60 °C
operation	
• during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity	
<ul> <li>at 25 °C / without condensation / during</li> </ul>	95 %
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
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Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE	16
blocks / maximum	
Amount of data	
<ul> <li>as user data per ISO connection / for open</li> </ul>	8 Kibyte
communication / by means of SEND/RECEIVE blocks / maximum	
<ul> <li>as user data per ISO on TCP connection / for</li> </ul>	8 Kibyte
open communication / by means of SEND/RECEIVE blocks / maximum	

<ul> <li>as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	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-Controller
Number of PN IO devices / on PROFINET IO controller / usable / total	32
Number of external PN IO lines / with PROFINET / per rack	1
Amount of data	
<ul> <li>as user data for input variables / as PROFINET</li> <li>IO controller / maximum</li> </ul>	1 Kibyte
<ul> <li>as user data for input variables / as PROFINET</li> <li>IO controller / maximum</li> </ul>	1 Kibyte
<ul> <li>as user data for input variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul> <li>as user data for output variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul> <li>as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
<ul> <li>as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
Performance data / PROFINET communication / as	PN IO-Device
Product function / PROFINET IO device	Yes
Amount of data	
<ul> <li>as user data for input variables / as PROFINET</li> <li>IO device / maximum</li> </ul>	512 byte
<ul> <li>as user data for input variables / as PROFINET</li> <li>IO device / maximum</li> </ul>	512 byte
<ul> <li>as user data for input variables / for each sub- module as PROFINET IO device</li> </ul>	240 byte
<ul> <li>as user data for input variables / for each sub- module as PROFINET IO device</li> </ul>	240 byte
<ul> <li>as user data for the consistency area for each sub-module</li> </ul>	240 byte

Number of submodules / per PROFINET IO-Device	32	
Performance data / telecontrol		
Protocol / is supported		
• TCP/IP	Yes	
Product functions / management, configuration		
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		
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes	
<ul> <li>I&amp;M1 – higher-level designation/location designation</li> </ul>	Yes	
Product functions / Diagnosis		
Product functions / Diagnosis	Yes	
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Product functions / switch		
Product feature / Switch	Yes	
Product function		
<ul> <li>switch-managed</li> </ul>	No	
with IRT / PROFINET IO switch	Yes	
<ul> <li>Configuration with STEP 7</li> </ul>	Yes	
Product functions / Redundancy		
Product function		
<ul> <li>Ring redundancy</li> </ul>	Yes	
<ul> <li>Redundancy manager</li> </ul>	No	
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes	
Product functions / Security		
Product function		
<ul> <li>password protection for Web applications</li> </ul>	No	
ACL - IP-based	Yes	
<ul> <li>ACL - IP-based for PLC/routing</li> </ul>	No	
<ul> <li>switch-off of non-required services</li> </ul>	Yes	
<ul> <li>Blocking of communication via physical ports</li> </ul>	Yes	
<ul> <li>log file for unauthorized access</li> </ul>	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	
<ul> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	http://www.siemens.com/snst
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
<ul> <li>to website: Industry Mall</li> </ul>	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
<ul> <li>to website: CAx Download Manager</li> </ul>	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

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