

## 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 pluggable 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	
• S7-300 rail mounting	Yes
<b>performance data / open communication</b>	
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
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
• maximum	16
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	32
<b>performance data / PROFINET communication / as PN IO controller</b>	
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
<b>performance data / PROFINET communication / as PN IO device</b>	
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
<b>performance data / telecontrol</b>	
protocol / is supported	
• TCP/IP	Yes
<b>product functions / management, configuration, engineering</b>	
product function / MIB support	Yes
protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes

configuration software	STEP 7 V5.4 SP2 or higher / STEP 7 Professional V11 (TIA Portal) or higher
• required	
identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 - higher level designation/location designation	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes
<b>product functions / switch</b>	
product feature / switch	Yes
product function	
• switch-managed	No
• with IRT / PROFINET IO switch	Yes
• configuration with STEP 7	Yes
<b>product functions / redundancy</b>	
product function	
• ring redundancy	Yes
• redundancy manager	No
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
<b>product functions / security</b>	
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
<b>product functions / time</b>	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
<b>standards, specifications, approvals</b>	
reference code	
• according to IEC 81346-2:2019	KEC
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
global warming potential [CO2 eq]	
• total	77.4 kg
• during manufacturing	26.4 kg
• during operation	50.46 kg
• after end of life	0.54 kg
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions

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## Approvals / Certificates

### General Product Approval



[Declaration of Conformity](#)



General Product Approval

EMV

For use in hazardous locations



KC



FM

CCC-Ex

For use in hazardous locations

Marine / Shipping

Environment



[Confirmation](#)



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