SIEMENS

Data sheet 6GK7343-1FX00-0XE0

Product type designation

CP 343-1 ERPC

COMMUNICATIONSPROCESSOR CP343-1 ERPC FOR CONNECTING SIMATIC S7-300 CPU TO INDUSTRIAL ETHERNET AND TO VARIOUS DATABASES. FUNCTIONS: TCP/UDP, S7-COMM, OPEN COMM. WITH AND WITHOUT RFC 1006, MULTICAST, WEBSERVER, TIME VIA SIMATIC PROCESS OR NTP, ACCESS PROTECTION VIA IP-ACCESS LIST, SNMP, DHCP, C-PLUG, GIGABIT-SS 1X RJ45 (10/100/1000 MBIT);



Transmission rate	
Transfer rate	
• at the 1st interface	10 ... 1000 Mbit/s

Interfaces	
Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	1
• for power supply	1
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
• for power supply	2-pole plugable terminal block
design of the removable storage / C-PLUG	Yes

Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / 1 / from backplane bus	5 V
Supply voltage / external	24 V
Supply voltage / external / at DC / Rated value	24 V

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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	0.3 A
• from external supply voltage / at DC / at 24 V / typical	0.16 A
• from external supply voltage / at DC / at 24 V / maximum	0.6 A
Power loss [W]	14.7 W

Permitted 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 weight	
Module format	Compact module S7-300 double width
Width	80 mm
Height	125 mm
Depth	120 mm
Net weight	0.8 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	8
Amount of data	
• 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	8

Performance data / S7 communication

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Number of possible connections / for S7 communication	
• maximum	8
• Note	also 2 PG/OP connections and 1 diagnostics connection
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol mode	32
Performance data / IT functions	
Number of possible connections	
• as server / by means of HTTP / maximum	4
Number of possible write cycles / of the flash memory cells	100000
Performance data / ERPC functions	
Number of possible connections / for communication with ERP or MES stations / maximum	8
Number of possible logical triggers / per CP / maximum	8
Number of configurable ERPC symbols for database access	
• per CPU / maximum	2000
• per logical trigger / maximum	255
Amount of data / as user data and header information per logical trigger	8 Kibyte
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 SP5 + HSP 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	No

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Product functions / Redundancy	
Product function	
• Ring redundancy	No

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	http://www.siemens.com/snst
• 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	
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