## **SIEMENS**

## Data sheet

6GK7343-1FX00-0XE0

## Product type designation



## **CP 343-1 ERPC**

Communications processor CP 343-1 ERPC for connection of SIMATIC S7-300 CPU to Industrial Ethernet and to various databases Functions: TCP/UDP, S7 comm., open communication with a. without RFC1006, Multicast, Web server, Clock time via SIMATIC method or NTP, access protection via IP access list SNMP, DHCP, C-plug, Gigabit interface 1x RJ45 (10/100/1000 MB)

Transfer rate	
Transfer rate	
• at the 1st interface	10 1000 Mbit/s
Interferen	
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	1
<ul><li>for power supply</li></ul>	1
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
Type of electrical connection	
<ul><li>for power supply</li></ul>	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
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>	0.3 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>	0.6 A
Power loss [W]	14.7 W
Ambient conditions	
Ambient temperature	
for vertical installation / during operation	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 weights	
Design, dimensions and weights	
Module format	Compact module S7-300 double width
	Compact module S7-300 double width 80 mm
Module format	·
Module format Width	80 mm
Module format Width Height	80 mm 125 mm
Module format Width Height Depth	80 mm 125 mm 120 mm
Module format Width Height Depth Net weight	80 mm 125 mm 120 mm
Module format Width Height Depth Net weight Mounting type	80 mm 125 mm 120 mm 0.8 kg
Module format  Width  Height  Depth  Net weight  Mounting type  • \$7-300 rail mounting	80 mm 125 mm 120 mm 0.8 kg
Module format  Width  Height  Depth  Net weight  Mounting type  • \$7-300 rail mounting  Performance data / open communication  Number of possible connections / for open communication / by means of SEND/RECEIVE	80 mm 125 mm 120 mm 0.8 kg Yes
Module format  Width  Height  Depth  Net weight  Mounting type  • S7-300 rail mounting  Performance data / open communication  Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	80 mm 125 mm 120 mm 0.8 kg Yes
Module format  Width  Height  Depth  Net weight  Mounting type  • \$7-300 rail mounting  Performance data / open communication  Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum  Amount of data  • as user data per ISO on TCP connection / for open communication / by means of	80 mm 125 mm 120 mm 0.8 kg Yes
Module format  Width  Height  Depth  Net weight  Mounting type  • \$7-300 rail mounting  Performance data / open communication  Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum  Amount of data  • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum  • as user data per TCP connection / for open communication / by means of SEND/RECEIVE	80 mm 125 mm 120 mm 0.8 kg Yes  8

Number of Multicast stations	8	
Performance data / S7 communication		
Number of possible connections / for S7		
communication		
• maximum	8; also 2 PG/OP connections and 1 diagnostics connection	
Performance data / multi-protocol mode		
Number of active connections / with multi-protocol	32	
mode		
Performance data / IT functions		
Number of possible connections		
<ul><li>as server / by means of HTTP / maximum</li></ul>	4	
Number of possible write cycles / of the flash memory	100000	
cells		
Performance data / ERPC functions		
Number of possible connections / for communication	8	
with ERP or MES stations / maximum		
Number of possible logical triggers / per CP /	8	
Mumber of configurable EDDC symbols for detabase		
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	8 Kibyte	
per logical trigger		
Performance data / telecontrol		
Protocol / is supported		
• TCP/IP	Yes	
Product functions / management, configuration, engineering		
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		
<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 / Diagnostics		
Product function / Web-based diagnostics	Yes	
-		

Product functions / Switch		
Product feature / Switch	No	
- I saudi isataro / sinton	,,,	
Product functions / redundancy		
Product function		
Ring redundancy	No	
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	
• 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. 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)

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