

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 interface 1 10 ... 1000 Mbit/s

Interfaces

Number of electrical connections	
• at interface 1 / in accordance with Industrial Ethernet	1
• for power supply	1
Design of the electrical connection	
• at interface 1 / in accordance with Industrial Ethernet	RJ45 port
design of the removable storage / C-PLUG	Yes

Supply voltage, current consumption, power loss

Type of / supply voltage	DC
Supply voltage	
• 1 / from backplane bus	5 V
• external	24 V
Relative positive tolerance / at 24 V / with DC	20 %
Relative negative tolerance / at 24 V / with DC	15 %
Consumed current	
• from backplane bus / at 5 V / for DC / Typical	0.3 A
• from external supply voltage / at 24 V / with DC	
• typical	0.16 A

<ul style="list-style-type: none"> • maximum 	0.6 A
Resistive loss	14.7 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • for vertical installation / during operating phase 	0 ... 40 °C
<ul style="list-style-type: none"> • for horizontal installation / during operating phase 	0 ... 60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operating / 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
Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	8
Data volume	
<ul style="list-style-type: none"> • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
<ul style="list-style-type: none"> • as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
<ul style="list-style-type: none"> • 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	
Number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • maximum 	8
<ul style="list-style-type: none"> • note 	also 2 PG/OP connections and 1 diagnostics connection
Performance data / multi-protocol mode	
Number of active connections / with multiprotocol mode	32
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	
<ul style="list-style-type: none"> • per CPU / maximum 	2000
<ul style="list-style-type: none"> • per logical trigger / maximum 	255

Data volume / as user data and header information per logical trigger	8 Kibyte
Product functions / management, configuration	
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
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 / Redundancy	
Product function / Ring redundancy	No
Product functions / Security	
Product function	
• ACL - IP-based	Yes
• switchoff 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
• pass on time synchronization	Yes
Protocol / is supported / NTP	Yes
Further Information / Internet Links	
Internet-Link	
• to website: Industry Mall	http://www.siemens.com/industrial-controls/mall
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	http://support.automation.siemens.com
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