

Product-type designation

CP 343-1



COMMUNIKATIONSPROCESSOR CP343-1 FOR CONNECTING SIMATIC S7-300 TO IND. ETHERNET VIA ISO AND TCP/IP, PROFINET IO-CONTROLLER OR PROFINET IO-DEVICE, INTEGR. 2-PORT SWITCH ERTEC200 S7-COMM., FETCH/WRITE, SEND/RCV W. AND W/O RFC1006, MULTICAST DHCP, NTC-CPU SYNC, DIAGNOSTIC, INITIALIZATION VIA LAN, 2 X RJ45 CONNECT. FOR LAN WITH 10/100 MBIT/S

Transmission rate

Transfer rate / at the interface 1

10 ... 100 Mbit/s

Interfaces

Number of electrical connections

- at interface 1 / in accordance with Industrial Ethernet
- for power supply

2
1

Design of the electrical connection

- at interface 1 / in accordance with Industrial Ethernet

RJ45 port

Supply voltage, current consumption, power loss

Type of voltage / of supply voltage

DC

Supply voltage

- 1 / from backplane bus
- external

5 V
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
- from external supply voltage / at 24 V / with DC
 - typical
 - maximum

0.2 A
0.16 A
0.2 A

Resistive loss	5.8 W
Permitted ambient conditions	
Ambient temperature	
• for vertical installation / during operating phase	0 ... 40 °C
• for horizontal installation / during operating phase	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP20
Design, dimensions and weight	
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.22 kg
Performance data / open communication	
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
Performance data / S7 communication	
Number of possible connections / for S7 communication	
• maximum	16
Performance data / multi-protocol mode	
Number of active connections / with multiprotocol 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
Data volume	
• as useful data for input variables / as PROFINET IO controller / maximum	1 Kibyte

<ul style="list-style-type: none"> • as useful data for output variables / with PROFINET IO controller / maximum 	1 Kibyte
<ul style="list-style-type: none"> • as useful data for input variables per PN IO device / with PROFINET IO controller / maximum 	1433 byte
<ul style="list-style-type: none"> • as useful data for output variables per PN IO device / with PROFINET IO controller / maximum 	1433 byte
<ul style="list-style-type: none"> • as user data for input variable per PN IO device / per submodule as PROFINET IO controller / maximum 	240 byte
<ul style="list-style-type: none"> • as user data for output variables per PN IO device / per submodule as PROFINET IO controller / maximum 	240 byte
Performance data / PROFINET communication / as PN IO-Device	
Product function / PROFINET IO device	Yes
Amount of data	
<ul style="list-style-type: none"> • as useful data for input variables / as PROFINET IO device / maximum 	512 byte
<ul style="list-style-type: none"> • as useful data for input variables / as PROFINET IO device / maximum 	512 byte
<ul style="list-style-type: none"> • as useful data for input variables / for each sub-module under PROFINET IO device 	240 byte
<ul style="list-style-type: none"> • as useful data for input variables / for each sub-module under PROFINET IO device 	240 byte
<ul style="list-style-type: none"> • as useful data for the consistency area for each sub-module 	240 byte
Number of submodules / per PROFINET IO-Device	32
Product functions / management, configuration	
Product function / MIB support	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • DCP 	Yes
<ul style="list-style-type: none"> • LLDP 	Yes
Identification & maintenance	
<ul style="list-style-type: none"> • I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> • I&M1 - plant identification/location name 	Yes
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / switch	
Product feature / switch	Yes
Product function	
<ul style="list-style-type: none"> • switch-managed 	No
<ul style="list-style-type: none"> • Configuration with STEP 7 	Yes
Product functions / Redundancy	
Product function	
<ul style="list-style-type: none"> • Ring redundancy 	Yes
<ul style="list-style-type: none"> • Redundancy manager 	No

