

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 interfaces / according to Industrial Ethernet

2

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
- for power supply

RJ45 port

2-pole plugable terminal block

Supply voltage, current consumption, power loss

Type of / supply voltage

DC

Supply voltage / 1 / from backplane bus

5 V

Supply voltage

24 V

Supply voltage / 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

0.2 A

<ul style="list-style-type: none"> • from external supply voltage / at 24 V / with DC 	
<ul style="list-style-type: none"> • typical 	0.16 A
<ul style="list-style-type: none"> • maximum 	0.2 A
Resistive loss	5.8 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 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.22 kg
Mounting type	
<ul style="list-style-type: none"> • S7-300 rail mounting 	Yes
Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks	
<ul style="list-style-type: none"> • maximum 	16
Data volume	
<ul style="list-style-type: none"> • as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
<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	16
Performance data / S7 communication	
Number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • 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
• as useful data for output variables / with PROFINET IO controller / maximum	1 Kibyte
• as useful data for input variables per PN IO device / with PROFINET IO controller / maximum	1433 byte
• as useful data for output variables per PN IO device / with PROFINET IO controller / maximum	1433 byte
• as user data for input variable per PN IO device / per submodule as PROFINET IO controller / maximum	240 byte
• 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	
• as useful data for input variables / as PROFINET IO device / maximum	512 byte
• as useful data for input variables / as PROFINET IO device / maximum	512 byte
• as useful data for input variables / for each sub-module under PROFINET IO device	240 byte
• as useful data for input variables / for each sub-module under PROFINET IO device	240 byte
• as useful data for the consistency area for each sub-module	240 byte
Number of submodules / per PROFINET IO-Device	32

Performance data / telecontrol

Protocol / is supported	
• TCP/IP	Yes

Product functions / management, configuration

Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
Configuration software	
• required	STEP 7 V5.4 SP2 or higher / STEP 7 Professional V11 (TIA Portal) 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	Yes
Product function	
• switch-managed	No
• for IRT / PROFINET IO switch	Yes
• Configuration with STEP 7	Yes
Product functions / Redundancy	
Product function	
• Ring redundancy	Yes
• Redundancy manager	No
• Media Redundancy Protocol (MRP)	Yes
Product functions / Security	
Product function	
• password protection for Web applications	No
• ACL - IP-based	Yes
• ACL - IP-based for PLC/routing	No
• 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: 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
letzte Änderung:	Sep 9, 2014