

Product type designation

CP 343-1
COMMUNICATIONSPROCESSOR CP343-1 CONNECTING
SIMATIC S7-300 TO IND. ETHERNET VIA PROFINET IO,
CONTROLLER,ISO, TCP/IP AND UDP, AND WITHOUT RFC, 1006
DIAGNOSTIC EXPANSIONS, MULTICAST, LOADABLE
COMMUNICATION BLOCKS SNMP DIAGNOSIS, INITIALIZATION
VIA LAN, DHCP, NTP-CPU SYNC, 10/100 MBIT, ONLY RJ45
CONNECTION



Transmission rate

Transfer rate	
• at the 1st interface	10 ... 100 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	24 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 • from external supply voltage / at DC / at 24 V / typical	0.2 A
Power loss [W]	5.8 W

Permitted ambient conditions

Ambient temperature • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport	0 ... 40 °C 0 ... 60 °C -40 ... +70 °C -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	0.22 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	16
Amount of data • as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum • 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 blocks / maximum • as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte 8 Kibyte 8 Kibyte 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 multi-protocol mode

32

Performance data / PROFINET communication / as PN IO-Controller

Amount of data

- as user data for input variables / as PROFINET IO controller / maximum
- as user data for input variables / as PROFINET IO controller / maximum
- as user data for input variables per PN IO device / as PROFINET IO controller / maximum
- as user data for output variables per PN IO device / as PROFINET IO controller / maximum
- as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum
- as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum

1 Kibyte

1 Kibyte

1433 byte

1433 byte

240 byte

240 byte

Performance data / telecontrol

Protocol / is supported

- TCP/IP

Yes

Product function / MIB support

Yes

Protocol / is supported

- SNMP v1
- DCP
- LLDP

Yes

Yes

No

Configuration software

- required

STEP 7 V5.3 SP3 or higher

Identification & maintenance function

- I&M0 - device-specific information
- I&M1 – higher-level designation/location designation

Yes

Yes

Product functions / Diagnosis

Product function / Web-based diagnostics

No

Product functions / switch

Product feature / Switch

No

Product functions / Redundancy

Product function

- Ring redundancy

No

Product functions / Security

Product function

- password protection for Web applications
- ACL - IP-based
- ACL - IP-based for PLC/routing
- switch-off of non-required services
- Blocking of communication via physical ports
- log file for unauthorized access

No

Yes

No

No

No

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
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

Security information

Security information

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