

### Product type designation



### CP 343-1 Advanced

Communications processor CP 343-1 Advanced for connection of SIMATIC S7-300 to Industrial Ethernet: PROFINET IO Controller, PROFINET CBA, ISO, TCP/IP and UDP, S7 communication, fetch/write, SEND/RECEIVE, with and without RFC1006, HTTP with JAVA, Multicast, chargeable Communication modules, HTML diagnostics, FTP Client/Server Email, SNMP, DHCP, NTP-CPU Sync, 10/100 MBit, nur 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
- for power supply

1

1

#### Type of electrical connection

- at the 1st interface / acc. to Industrial Ethernet
- of Industrial Ethernet interface
- for power supply

RJ45 port

RJ45 port

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 backplane bus / at DC / at 5 V / typical	0.14 A
Power loss [W]	14.7 W

#### Permitted ambient conditions

Ambient temperature	
• for vertical installation / during operation	0 ... 40 °C
• for horizontally arranged busbars / during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-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 S7-200 double width
Width	80 mm
Height	125 mm
Depth	120 mm
Net weight	0.8 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	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 multi-protocol mode

48

#### Performance data / IT functions

Number of possible connections

- as client / by means of FTP / maximum
- as server / by means of FTP / maximum

10

2

Number of possible connections

- as server / by means of HTTP / maximum
- as e-mail client / maximum

4

1

Amount of data / as user data for email / maximum

8 Kibyte

Storage capacity / of the user memory

- as flash memory file system
- as RAM

28 Mibyte

30 Mibyte

Number of possible write cycles / of the flash memory cells

100000

#### Performance data / PROFINET communication / as PN IO-Controller

Number of PN IO devices / on PROFINET IO controller / usable / total

125

Number of external PN IO lines / with PROFINET / per rack

1

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

4 Kibyte

4 Kibyte

1433 byte

1433 byte

#### Performance data / PROFINET CBA

Number of remote connection partners / with PROFINET CBA

64

Number of connections / with PROFINET CBA / total

1000

Amount of data

- as user data for digital inputs / with PROFINET CBA / maximum
- as user data for digital outputs / with PROFINET CBA / maximum

8 Kibyte

8 Kibyte

- as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum
- as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum
- as user data for arrays and data types / with PROFINET CBA / in the case of local interconnection / maximum

8 Kibyte

450 byte

2400 byte

#### Performance data / PROFINET CBA / remote connection / with acyclic transmission

Refresh time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA

100 ms

Number of remote connections to input variables / in the case of acyclic transmission / with PROFINET CBA / maximum

128

Number of remote connections to output variables / in the case of acyclic transmission / with PROFINET CBA / maximum

128

Amount of data

- as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA
- as user data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA

8 Kibyte

8 Kibyte

#### Performance data / PROFINET CBA / remote connection / with cyclic transmission

Refresh time / of the remote interconnections / with PROFINET CBA / with cyclical transfer

8 ms

Number of remote connections to input variables / with PROFINET CBA / with cyclical transfer / maximum

200

Number of remote connections to output variables / with PROFINET CBA / with cyclical transfer / maximum

200

Amount of data

- as user data for remote interconnections with input variables / with PROFINET CBA / with cyclical transfer / maximum
- as user data for remote interconnections with output variables / with PROFINET CBA / with cyclical transfer / maximum

2000 byte

2000 byte

#### Performance data / PROFINET CBA / HMI variables via PROFINET / acyclic

Number of connectable HMI stations / for HMI variables / in the case of acyclic transmission / with PROFINET CBA

3

Refresh time / of the HMI variables / in the case of acyclic transmission / with PROFINET CBA	500 ms
Number of HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	200
Amount of data / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte

#### Performance data / PROFINET CBA / device-internal connections

Number of internal connections / with PROFINET CBA / maximum	256
Amount of data / of the internal connections / with PROFINET CBA / maximum	2400 byte

#### Performance data / PROFINET CBA / connections to constants

Number of connections with constants / with PROFINET CBA / maximum	200
Amount of data / as user data for interconnections with constants / with PROFINET CBA / maximum	4096 byte

#### Performance data / PROFINET CBA / PROFIBUS proxy functionality

Product function / with PROFINET CBA / PROFIBUS proxy functionality	No
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#### Performance data / telecontrol

Protocol / is supported	
• TCP/IP	Yes
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
Configuration software	
• required	STEP 7 V5.3 SP2 or higher
• for PROFINET CBA / required	SIMATIC iMap V2.0 SP1 and 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
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#### Product functions / switch

Product feature / Switch	No
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#### Product functions / Redundancy

Product function	
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- Ring redundancy

No

## Product functions / Security

### Product function

- 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

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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last modified:

11/09/2018