

Product type designation

CP 343-1 Lean

Communications processor CP 343-1 Lean for connection of SIMATIC S7-300 to Industrial Ethernet via TCP/IP and UDP, Multicast, SEND/RECEIVE with and without RFC1006, Fetch/ Write, S7 communication (server), PROFINET IO device integrated 2-port switch ERTEC 200, Module replacement without PG, SNMP diagnostics, initialization via LAN, 2x RJ45 connection for LAN with 10/100 Mbit/s



Transmission rate

Transfer rate

- at the 1st interface

10 ... 100 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet

2

Number of electrical connections

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

2

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

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	
<ul style="list-style-type: none"> • from backplane bus / at DC / at 5 V / typical 	0.2 A
<ul style="list-style-type: none"> • from external supply voltage / at DC / at 24 V / typical 	0.16 A
<ul style="list-style-type: none"> • from external supply voltage / at DC / at 24 V / maximum 	0.2 A
Power loss [W]	5.8 W

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • for vertical installation / during operation 	0 ... 40 °C
<ul style="list-style-type: none"> • for horizontally arranged busbars / during operation 	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	
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / 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 / maximum	8
Amount of data	
<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	
• maximum	4
Service	
• of SIMATIC communication / as server	Yes
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol mode	12
Performance data / PROFINET communication / as PN IO-Controller	
Product function / PROFINET IO controller	No
Performance data / PROFINET communication / as PN IO-Device	
Product function / PROFINET IO device	Yes
Amount of data	
• as user data for input variables / as PROFINET IO device / maximum	512 byte
• as user data for input variables / as PROFINET IO device / maximum	512 byte
• as user data for input variables / for each sub-module as PROFINET IO device	240 byte
• as user data for input variables / for each sub-module as PROFINET IO device	240 byte
• as user 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 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
- with IRT / PROFINET IO switch
- Configuration with STEP 7

No

No

Yes

Product functions / Redundancy

Product function

- Ring redundancy
- Redundancy manager

Yes

No

Protocol / is supported / Media Redundancy Protocol (MRP)

Yes

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

Yes

Yes

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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