

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

Permitted 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 / 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	
<ul style="list-style-type: none"> • maximum 	4
Service	
<ul style="list-style-type: none"> • of SIMATIC communication / as server 	Yes

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	12
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Performance data / PROFINET communication / as PN IO-Controller

Product function / PROFINET IO controller	No
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Performance data / PROFINET communication / as PN IO-Device

Product function / PROFINET IO device	Yes
Amount of data	
<ul style="list-style-type: none"> • as user data for input variables / as PROFINET IO device / maximum 	512 byte
<ul style="list-style-type: none"> • as user data for input variables / as PROFINET IO device / maximum 	512 byte
<ul style="list-style-type: none"> • as user data for input variables / for each sub-module as PROFINET IO device 	240 byte
<ul style="list-style-type: none"> • as user data for input variables / for each sub-module as PROFINET IO device 	240 byte
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • TCP/IP 	Yes
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
Configuration software	
<ul style="list-style-type: none"> • required 	STEP 7 V5.4 or higher / STEP 7 Professional V11 (TIA Portal) or higher
Identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> • 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	Yes
Product function	
<ul style="list-style-type: none"> • switch-managed 	No
<ul style="list-style-type: none"> • with IRT / PROFINET IO switch 	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
<ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product functions / Security	
Product function	
<ul style="list-style-type: none"> • password protection for Web applications 	No
<ul style="list-style-type: none"> • ACL - IP-based 	Yes
<ul style="list-style-type: none"> • ACL - IP-based for PLC/routing 	No
<ul style="list-style-type: none"> • switch-off of non-required services 	Yes
<ul style="list-style-type: none"> • Blocking of communication via physical ports 	Yes
<ul style="list-style-type: none"> • log file for unauthorized access 	No
Product functions / Time	
Product function / SICLOCK support	Yes
Product function / pass on time synchronization	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • NTP 	Yes
Accessories	
Further Information / Internet Links	
Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com
Security information	

Security information

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