

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



Transfer rate	
Transfer rate	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	2
Number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet for power supply 	2 1
Type of electrical connection	
<ul style="list-style-type: none"> 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	
• from backplane bus / at DC / at 5 V / typical	0.2 A
• from external supply voltage / at DC / at 24 V / typical	0.16 A
• from external supply voltage / at DC / at 24 V / maximum	0.2 A
Power loss [W]	5.8 W

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
Module format	Compact module S7-300 single width
Width	40 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	8
Amount of data	
• 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	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 / PROFINET CBA

Protocol / is supported	
<ul style="list-style-type: none"> • TCP/IP 	Yes

Product functions / management, configuration, engineering

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 / Diagnostics

Product function / Web-based diagnostics	Yes
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Product functions / Switch

Product feature / Switch	Yes
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Product function	
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| • switch-managed | No |
| • with IRT / PROFINET IO switch | No |
| • Configuration with STEP 7 | Yes |

Product functions / redundancy

Product function	
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| • Ring redundancy | Yes |
| • Redundancy manager | No |

Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
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Product functions / Security

Product function	
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| • password protection for Web applications | No |
| • ACL - IP-based | Yes |
| • ACL - IP-based for PLC/routing | No |
| • switch-off 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
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Product function / pass on time synchronization	Yes
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Protocol / is supported	
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| • NTP | Yes |
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Further information / Internet-Links

Internet-Link	
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|---|---|
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx Download Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |

Security information

Security information

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