

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 / according to Industrial Ethernet	2
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet 	2
<ul style="list-style-type: none"> for power supply 	1
type of electrical connection	
<ul style="list-style-type: none"> of Industrial Ethernet interface 	RJ45 port
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet 	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> for power supply 	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 weights	
module format	Compact module S7-300 single width

width	40 mm
height	125 mm
depth	120 mm
net weight	0.22 kg
fastening method	Yes
<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 data volume	8
<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	4
<ul style="list-style-type: none"> • maximum 	4
service	Yes
<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
data volume	
<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 output 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 output 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	Yes
<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
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 • redundancy manager 	Yes No
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product functions / security	
product function	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • NTP 	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to web page: selection aid TIA 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/tia-selection-tool 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	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com . (V3.4)

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