SIEMENS

Data sheet

Product type designation

6GK7343-1CX10-0XE0



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		
• 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	2	
 for power supply 	1	
Type of electrical connection		
 of Industrial Ethernet interface 	RJ45 port	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port	
Type of electrical connection		
 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 / at DC / Rated value 24 V Relative regative tolerance / at DC / at 24 V 20 % Relative negative tolerance / at DC / at 24 V 20 % Consumed current 0.2 A • from backplane bus / at DC / at 24 V/ 0.16 A • from external supply voltage / at DC / at 24 V/ 0.16 A • from external supply voltage / at DC / at 24 V/ 0.2 A • from external supply voltage / at DC / at 24 V/ 0.2 A Power loss [W] 5.8 W Ambient temperature 0.2 A • for horizontally arranged busbars / during operation 0 40 °C • during transport -40 +70 °C • during transport -20 +70 °C • during transport -20 +70 °C • during transport -20 +70 °C Module format Compact module S7.300		
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 / 0.16 A typical . • from external supply voltage / at DC / at 24 V / 0.2 A Power loss [W] 5.8 W Ambient conditions 40 °C Armbient temperature 040 °C • for vertical installation / during operation 040 °C • during storage -40 +70 °C • during storage -40 +70 °C • during storage -40 +70 °C • Relative humidity 95 % • at 25 °C / without condensation / during operation IP20 Design_dimensions and weights Compact module S7-300 single width Width 40 mm Height 128 mm Depth 120 mm Net weight 0.22 kg Mounting type - •S7-300 rail mounting Yes Performance data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum • as user data per IS	Supply voltage / external	24 V
Relative negative tolerance / at DC / at 24 V 15 % Consumed current 0.2 A • from backplane bus / at DC / at 24 V / typical 0.16 A • from external supply voltage / at DC / at 24 V / maximum 0.18 A • Power loss [W] 5.8 W Ambient conditions Antibient emperature • for vertical installation / during operation • for victical installation / during operation … 40 °C • for horizontally arranged busbars / during operation … 40 °C … 60 °C • during storage … 40 … 70 °C … 60 °C • during transport … 40 … 70 °C … 60 °C • during transport … 40 … 70 °C … 60 °C • etatistive humidity • 95 % © 5 % … 70 °C • etatistive humidity • 25 °C / without condensation / during operation / maximum • 20 °C © 5 %		
Consumed current. from backplane bus / at DC / at 5 V / typical from external supply voltage / at DC / at 24 V / from external supply voltage / at DC / at 24 V / from external supply voltage / at DC / at 24 V / 0.2 A Power loss [W] 5.8 W Ambient conditions Andient temperature for vortical installation / during operation for vortical installation / during operation during storage 40 40 °C for vortical installation / during operation during storage 40 470 °C during transport at 25 °C / without condensation / during operation / maximum Protection class IP IP20 Design, dimensions and weights IP20 Module format Compact module S7-300 single width Width 40 mm Height 125 mm Depth 0.22 kg Mounting type \$7-300 rail mounting Yes Performance data / open communication / for open communication / by means of SEND/RECEIVE blocks / maximum 8 Amount of data 8 • as user data per ISO on TCP connecti		
• from backplane bus / at DC / at 5 V / typical0.2 A• from external supply voltage / at DC / at 24 V / typical0.16 A• from external supply voltage / at DC / at 24 V / maximum0.2 APower loss [W]5.8 WAmbient conditions0 40 °CAmbient temperature0 60 °C• for vortical installation / during operation0 40 °C• for horizontally arranged busbars / during operation0 60 °C• during storage-40 +70 °C• during storage-40 +70 °C• during transport-40 +70 °C• at 25 °C / without condensation / during operation / maximum0 60 °C• at 25 °C / without condensation / during operation / maximum0 60 °CPortection class IPIP20Design. dimensions and weights0 60 °CModulf formatCompact module S7-300 single widthWidth40 mmHeight0.22 kgMounting type o S7-300 rail mountingYes• S7-300 rail mountingS· S7-300 ra		15 %
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maximum Power loss [W] 5.8 W Ambient temperature for vertical installation / during operation for horizontally arranged busbars / during operation for horizontally arranged busbars / during operation during storage during transport during transport during transport at 25 °C / without condensation / during operation / during operation / during operation / maximum potention / and wights at 25 °C / without condensation / during operation / during operation / maximum potention class IP IP20 Design, dimensions and weights Module format Compact module S7-300 single width Width 40 mm Height 125 mm Depth 22 kg Mounting type s7.300 rail mounting Yes Performance data / open communication Number of possible connections / for open communication / for open communication / by means of SEND/RECEIVE blocks / maximum as user data per ISO on TCP connection / for open communication / for open communication / by means of SEND/RECEIVE Proference of data es user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE SEND/RECEIVE blocks / maximum as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE SEND/RECEIVE		0.16 A
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Ambient temperature for vertical installation / during operation for horizontally arranged busbars / during operation during storage during storage during transport during transport during transport at 25 °C / without condensation / during operation / maximum Protection class IP IP20 Design, dimensions and weights Module format Compact module S7-300 single width 40 mm Height Depth Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum Arount of data as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum as user data per ICP connection / for open communication / by means of SEND/RECEIVE BKibyte	Power loss [W]	5.8 W
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• during transport -40 +70 °C Relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 % Protection class IP IP20 Design, dimensions and weights IP20 Module format Compact module \$7-300 single width With 40 mm Height 125 mm Depth 120 mm Net weight 0.22 kg Mounting type • \$7-300 rail mounting • \$7-300 rail mounting Yes Performance data / open communication 8 Amount of data 8 • as user data per ISO on TCP 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		0 60 °C
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• at 25 °C / without condensation / during operation / maximum 95 % Protection class IP IP20 Design, dimensions and weights 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 • S7-300 rail mounting Yes Performance data / open communication Yes Amount of data 8 • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE 8 Kibyte • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE 8 Kibyte • as user data per TCP connection / for open communication / by means of SEND/RECEIVE 8 Kibyte	 during transport 	-40 +70 °C
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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 Mounting type • S7-300 rail mounting • S7-300 rail mounting Yes Performance data / open communication Yes Number of possible connections / for open communication / by means of SEND/RECEIVE 8 Amount of data • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE 8 Kibyte • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE 8 Kibyte • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE 8 Kibyte	-	
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Width 40 mm Height 125 mm Depth 120 mm Net weight 0.22 kg Mounting type • S7-300 rail mounting • S7-300 rail mounting Yes Performance data / open communication Yes 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 ISO on TCP 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	Design, dimensions and weights	
Height 125 mm Depth 120 mm Net weight 0.22 kg Mounting type	Module format	Compact module S7-300 single width
Depth 120 mm Net weight 0.22 kg Mounting type Yes • S7-300 rail mounting Yes Performance data / open communication Number of possible connections / for open 8 communication / by means of SEND/RECEIVE 8 blocks / maximum 8 Kibyte Amount of data 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 8 Kibyte	Width	40 mm
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Mounting type Yes Performance data / open communication Yes 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 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	Depth	120 mm
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open communication / by means of SEND/RECEIVE blocks / maximum • as user data per TCP connection / for open communication / by means of SEND/RECEIVE 8 Kibyte	Amount of data	
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communication / by means of SEND/RECEIVE		
	communication / by means of SEND/RECEIVE	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		
• 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, engineering		
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	Yes
designation	
Product functions / Diagnostics	
Product function / Web-based diagnostics	Yes
-	
Product functions / Switch	
Product feature / Switch	Yes
Product function	
 switch-managed 	No
 with IRT / PROFINET IO switch 	No
 Configuration with STEP 7 	Yes
Product functions / redundancy	
Product function	
 Ring redundancy 	Yes
 Redundancy manager 	No
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product functions / Security	
Product function	
 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
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 	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	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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