SIEMENS

Product data sheet

6GK7343-1CX10-0XE0

Product-type designation



CP 343-1 Lean

SIMATIC NET.

CP 343-1 LEAN COMMUNICATION PROCESSOR FOR CONNECTING SIMATIC S7-300 TO IND. ETHERNET VIA TCP/IP AND UDP,

MULTICAST,

SEND/RECEIVE W. AND W/O RFC1006,

FETCH/ WRITE.

S7-COMMUNICATION(SERVER) PROFINET IO-DEVICE INTEGRATED 2-PORT SWITCH ERTEC 200, BG EXCHANGE W/O PG, SNMP DIAGNOSTICS,

INITIALIZ. VIA LAN,

2 X RJ45 CONNECT. FOR LAN WITH 10/100 MBIT/S

46.0	ne	201	00	OB	rate	<u> </u>

Transfer rate / at the interface 1 10 ... 100 Mbit/s

Interfaces

Number of electrical connections

- at interface 1 / in accordance with Industrial Ethernet 2
- for power supply 1

Design of the electrical connection

Type of voltage / of supply voltage

• at interface 1 / in accordance with Industrial Ethernet RJ45 port

Supply voltage, current consumption, power loss

Supply voltage 5 V • 1 / from backplane bus • external 24 V Relative positive tolerance / at 24 V / with DC 20 % Relative negative tolerance / at 24 V / with DC 15 % Consumed current

• from backplane bus / at 5 V / for DC / Typical

• from external supply voltage / at 24 V / with DC

typical

maximum

DC

0.2 A

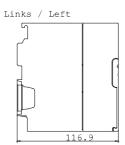
0.16 A

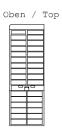
0.2 A

Resistive loss	5.8 W
Permitted ambient conditions	
Ambient temperature	
during operating	0 60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity / at 25 $^{\circ}\text{C}$ / without condensation / during operating / maximum	95 %
Protection class IP	IP20
Design, dimensions and weight	
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.22 kg
Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	8
Data volume	
 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	
• maximum	4
Service / of SIMATIC communication / as server	Yes
Performance data / multi-protocol mode	
Number of active connections / with multiprotocol mode	12
Performance data / PROFINET communication / as PN IO-Device	
Product function / PROFINET IO device	Yes
Amount of data	
 as useful data for input variables / as PROFINET IO device / maximum 	512 byte
 as useful data for input variables / as PROFINET IO device / maximum 	512 byte
 as useful data for input variables / for each sub-module under PROFINET IO device 	240 byte
 as useful data for input variables / for each sub-module under PROFINET IO device 	240 byte

Number of submodules / per PROFINET IO-Device 32 Product function / MIB support Yes Protocol / is supported • SNMP v1 Yes • DCP • LLDP Yes • LLDP Yes • LLDP Yes • Identification & maintenance • I&M0 - device-specific information Yes • I&M1 - plant identification/location name Yes Product function / Web-based diagnostics Yes Product function / Web-based diagnostics Yes Product function / Switch Product function / Switch Product function / Switch Product function / Switch Product function / Yes	as useful data for the consistency area for each sub-module	240 byte				
Product function / MIB support Protocol / is supported • SNMP v1 • DCP • LLDP • LLDP • Identification & maintenance • I&MO - device-specific information • I&M1 - plant identification/location name Product functions / Diagnosis Product function / Web-based diagnostics Product function / Web-based diagnostics Product function / Web-based diagnostics Product function / Switch Product function • switch-managed • Configuration with STEP 7 Product functions / Redundancy Product functions / Redundancy Product function / Yes • MRP redundancy protocol Product function / Security Product function / Security Product function / Security Product function / Yes • blocking of communication via physical ports Product function / Yes	Number of submodules / per PROFINET IO-Device	32				
Protocol / is supported • SNMP v1 Yes • DCP • LLDP Yes Identification & maintenance • I&MO · device-specific information Yes • I&M1 · plant identification/location name Yes Product functions / Diagnosis Product function / Web-based diagnostics Yes Product functions / switch Product functions / switch Product functions / switch Product function with STEP 7 Yes Product functions / switch-managed No • Configuration with STEP 7 Yes Product functions / Redundancy Product functions / Product function Yes • MRP redundancy Yes Product function / Yes Product functions / Security Product function / Security Product function / Security Product function / Yes	Product functions / management, configuration					
SNMP v1 DCP Yes LLDP Yes Identification & maintenance I&M0 - device-specific information Yes Product functions / Diagnosis Product function / Web-based diagnostics Product function / Web-based diagnostics Product function / Web-based diagnostics Product function / Switch Product function Switch-managed Configuration with STEP 7 Product function with STEP 7 Product function Ring redundancy Product function Sign redundancy Yes Product function Sign redundancy Yes Product function Sign redundancy Yes Product function / Security Product function / Security Product function Switchoff of non-required services Subcking of communication via physical ports Yes Product functions / Time Product function Sigl COK support Yes Product function Sigl COK support Yes Product of will be supported / NTP Yes	Product function / MIB support	Yes				
• DCP • LLDP Identification & maintenance • I&MO - device-specific information • I&M1 - plant identification/location name Product functions / Diagnosis Product function / Web-based diagnostics Product functions / switch Product functions / switch Product function • switch-managed • Configuration with STEP 7 Product functions / Redundancy Product function • Ring redundancy • MRP redundancy protocol Product functions / Security Product function • switchoff of non-required services • blocking of communication via physical ports Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Protocol / will be supported / NTP	Protocol / is supported					
LLDP Yes Identification & maintenance 18M0 - device-specific information Yes 18M1 - plant identification/location name Yes	• SNMP v1	Yes				
Identification & maintenance I&M0 - device-specific information Yes I&M1 - plant identification/location name Yes Product functions / Diagnosis Product function / Web-based diagnostics Yes Product functions / switch Product feature / switch Yes Product function • switch-managed No • Configuration with STEP 7 Yes Product functions / Redundancy Product function • Ring redundancy Yes • MRP redundancy protocol Yes Product functions / Security Product function • switchoff of non-required services Yes • blocking of communication via physical ports Yes Product functions / Time Product function • SICLOCK support Yes Protocol / will be supported / NTP Yes	• DCP	Yes				
I IBMO - device-specific information I IBM1 - plant identification/location name Product functions / Diagnosis Product function / Web-based diagnostics Product functions / switch Product feature / switch Product function • switch-managed • Configuration with STEP 7 Product functions / Redundancy Product function • Ring redundancy • MRP redundancy protocol Product function • switchoff of non-required services • blocking of communication via physical ports Product functions / Time Product functions • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP	• LLDP	Yes				
* I&M1 - plant identification/location name Product functions / Diagnosis Product function / Web-based diagnostics Product functions / switch Product function **Switch - Product function **switch-managed **Configuration with STEP 7 **Product functions / Redundancy Product function **Ring redundancy **MRP redundancy protocol **Product functions / Security Product function **switchoff of non-required services **blocking of communication via physical ports **Product functions / Time Product function **SicLOCK support **pass on time synchronization **Yes Protocol / will be supported / NTP **Yes **Protocol / will be supported / NTP **Yes	Identification & maintenance					
Product functions / Diagnosis Product function / Web-based diagnostics Product functions / switch Product feature / switch Product feature / switch Product function • switch-managed • Configuration with STEP 7 Product functions / Redundancy Product functions / Redundancy Product function • Ring redundancy • MRP redundancy protocol Product functions / Security Product function • switchoff of non-required services • blocking of communication via physical ports Product functions / Time Product function • SICLOCK support • pass on time synchronization Yes Protocol / will be supported / NTP Yes	• I&M0 - device-specific information	Yes				
Product function / Web-based diagnostics Product functions / switch Product feature / switch Product function • switch-managed • Configuration with STEP 7 Product functions / Redundancy Product function • Ring redundancy • Ring redundancy • MRP redundancy protocol Product functions / Security Product function • switchoff of non-required services • blocking of communication via physical ports Product functions • SICLOCK support • pass on time synchronization Yes Protocol / will be supported / NTP Yes	• I&M1 - plant identification/location name	Yes				
Product functions / switch Product feature / switch Product function • switch-managed • Configuration with STEP 7 Product functions / Redundancy Product function • Ring redundancy • MRP redundancy yes • MRP redundancy protocol Product functions / Security Product function • switchoff of non-required services yes • blocking of communication via physical ports Product functions / Time Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Yes	Product functions / Diagnosis					
Product feature / switch Product function • switch-managed • Configuration with STEP 7 Product functions / Redundancy Product function • Ring redundancy • MRP redundancy protocol Product functions / Security Product function • switchoff of non-required services • blocking of communication via physical ports Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Yes Protocol / will be supported / NTP	Product function / Web-based diagnostics	Yes				
Product function • switch-managed • Configuration with STEP 7 Product functions / Redundancy Product function • Ring redundancy • MRP redundancy protocol Product functions / Security Product function • switchoff of non-required services • blocking of communication via physical ports Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Protocol / will be supported / NTP	Product functions / switch					
Switch-managed Configuration with STEP 7 Yes Product functions / Redundancy Product function Ring redundancy Yes MRP redundancy protocol Product functions / Security Product function switchoff of non-required services blocking of communication via physical ports Product function Product function SICLOCK support pass on time synchronization Protocol / will be supported / NTP Yes Yes Yes Yes Yes Yes Yes Ye	Product feature / switch	Yes				
Configuration with STEP 7 Product functions / Redundancy Product function Ring redundancy MRP redundancy protocol Product functions / Security Product function switchoff of non-required services blocking of communication via physical ports Product function SICLOCK support pass on time synchronization Yes Protocol / will be supported / NTP Yes	Product function					
Product functions / Redundancy Product function Ring redundancy MRP redundancy protocol Yes Product functions / Security Product function Switchoff of non-required services Blocking of communication via physical ports Product function SICLOCK support Suppor	• switch-managed	No				
Product function Ring redundancy MRP redundancy protocol Product functions / Security Product function switchoff of non-required services blocking of communication via physical ports Product functions / Time Product function SICLOCK support pass on time synchronization Yes Protocol / will be supported / NTP	Configuration with STEP 7	Yes				
Ring redundancy MRP redundancy protocol Product functions / Security Product function switchoff of non-required services blocking of communication via physical ports Product functions / Time Product function SICLOCK support pass on time synchronization Protocol / will be supported / NTP Yes	Product functions / Redundancy					
• MRP redundancy protocol Product functions / Security Product function • switchoff of non-required services • blocking of communication via physical ports Product functions / Time Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Yes	Product function					
Product functions / Security Product function • switchoff of non-required services • blocking of communication via physical ports Product functions / Time Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Yes	Ring redundancy	Yes				
Product function • switchoff of non-required services • blocking of communication via physical ports Product functions / Time Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Yes	MRP redundancy protocol	Yes				
* switchoff of non-required services * blocking of communication via physical ports **Product functions / Time** Product function **SICLOCK support** **pass on time synchronization** Protocol / will be supported / NTP** Yes Yes Yes Yes Yes	Product functions / Security					
blocking of communication via physical ports Product functions / Time Product function SICLOCK support pass on time synchronization Protocol / will be supported / NTP Yes	Product function					
Product functions / Time Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Yes	• switchoff of non-required services	Yes				
Product function • SICLOCK support • pass on time synchronization Protocol / will be supported / NTP Yes	blocking of communication via physical ports	Yes				
SICLOCK support pass on time synchronization Yes Protocol / will be supported / NTP Yes	Product functions / Time					
pass on time synchronization Yes Protocol / will be supported / NTP Yes	Product function					
Protocol / will be supported / NTP Yes	SICLOCK support	Yes				
	• pass on time synchronization	Yes				
Maßzeichnung	Protocol / will be supported / NTP	Yes				







letzte Änderung: Feb 13, 2013