SIEMENS

Data sheet

6GK7443-1EX20-0XE0

Product type designation



CP 443-1

Communications processor CP 443-1 for connection of SIMATIC S7-400 to industrial Ethernet over ISO, TCP/IP and UDP, S7 communication, fetch/write, SEND/RECEIVE with and without RFC1006 Multicast, PROFINET IO Controller, DHCP, SNMP V2, Web, diagnostics, initialization via LAN, access protection via IP access list integrated real-time switch ERTEC 400, 2xRJ45 Anschluss 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	2
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
design of the removable storage / C-PLUG	No
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / 1 / from backplane bus	5 V
Relative symmetrical tolerance / at DC	
● at 5 V	5 %
Consumed current	
• from backplane bus / at DC / at 5 V / typical	1.4 A

Power loss [W]	7.25 W	
Permitted ambient conditions		
Ambient temperature		
during operation	0 60 °C	
during storage	-40 +70 °C	
during transport	-40 +70 °C	
Relative humidity / at 25 °C / without condensation /	95 %	
during operation / maximum		
Protection class IP	IP20	
Design, dimensions and weight		
Module format	Compact module S7-400 single width	
Width	25 mm	
Height	290 mm	
Depth	210 mm	
Net weight	0.7 kg	
Product properties, functions, components / genera	l .	
Number of units		
• per CPU / maximum	14	
• Note	max. 4 as PN IO ctrl.	
Performance data / open communication		
Number of possible connections / for open	64	
communication / by means of SEND/RECEIVE		
blocks / maximum Amount of data		
	8 Kibyte	
 as user data per ISO connection / for open communication / by means of SEND/RECEIVE 	o ribyte	
blocks / maximum		
• as user data per ISO on TCP connection / for	8 Kibyte	
open communication / by means of		
SEND/RECEIVE blocks / maximum		
• as user data per TCP connection / for open	8 Kibyte	
communication / by means of SEND/RECEIVE		
blocks / maximum		
as user data per UDP connection / for open IE	2 Kibyte	
communication / by means of SEND/RECEIVE		
blocks / maximum		
Number of possible connections / for open communication		
• by means of T blocks / maximum	64	
Amount of data		
• as user data per ISO on TCP connection / for	1452 byte	
open communication / by means of T blocks /		
maximum		

Performance data / S7 communication Number of possible connections / for S7 communication 128 • maximum 2 • with PG connections / maximum when using several CPUs Note Performance data / multi-protocol mode Number of active connections / with multi-protocol 128 mode Performance data / PROFINET communication / as PN IO-Controlle Product function / PROFINET IO controller Yes Number of PN IO devices / on PROFINET IO 128 controller / usable / total Number of PN IO IRT devices / on PROFINET IO 128 controller / usable Number of external PN IO lines / with PROFINET / 4 per rack Amount of data 4 Kibyte • as user data for input variables / as PROFINET IO controller / maximum • as user data for input variables / as PROFINET 4 Kibyte IO controller / maximum 1433 byte • as user data for input variables per PN IO device / as PROFINET IO controller / maximum 1433 byte • as user data for output variables per PN IO device / as PROFINET IO controller / maximum 240 byte • as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum 240 byte • as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum

Product functions / management, configuration	
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
Configuration software	
• required	STEP 7 V5.4 SP4 or higher

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

Product functions / switch	
Product feature / Switch	Yes
Product function	
• switch-managed	No
• with IRT / PROFINET IO switch	Yes
 Configuration with STEP 7 	Yes
Product functions / Redundancy	
Product function	
Ring redundancy	Yes
Redundancy manager	Yes
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

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