SIEMENS

Data sheet

6GK7443-1EX30-0XE0

Product type designation



CP 443-1

Communications processor CP 443-1; 2x 10/100 Mbit/s (IE switch); RJ45 ports; ISO; TCP; UDP; PROFINET IO controller; S7 communication; Open communication (SEND/ RECEIVE); S7 routing; IP configuration via DHCP/ Block; IP Access Control List; Time synchronization; extended web diagnostics; Fast Startup; Support for PROFlenergy;

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
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
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 / during	95 %
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 features, product functions, product compo	nents / general
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	
communication / by means of SEND/RECEIVE blocks / maximum	
communication / by means of SEND/RECEIVE blocks / maximum Amount of data	
communication / by means of SEND/RECEIVE blocks / maximum Amount of data • as user data per ISO connection / for open	8 Kibyte
communication / by means of SEND/RECEIVE blocks / maximum Amount of data • as user data per ISO connection / for open communication / by means of SEND/RECEIVE	8 Kibyte
communication / by means of SEND/RECEIVE blocks / maximum Amount of data • as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum	
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• as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum

1452 byte

Performance data / S7 communication

Number of possible connections / for S7 communication

• maximum 128; when using several CPUs

with PG connections / maximum

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode

128

2

Performance data / PROFINET communication / as PN IO controller	
Product function / PROFINET IO controller	Yes
Number of PN IO devices / on PROFINET IO controller / usable / total	128
Number of PN IO IRT devices / on PROFINET IO controller / usable	64
Number of external PN IO lines / with PROFINET / per rack	4
Amount of data	
 as user data for input variables / as PROFINET IO controller / maximum 	4 Kibyte
 as user data for input variables / as PROFINET IO controller / maximum 	4 Kibyte
 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 	1433 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 	240 byte

Product functions / management, configuration, engineering	9
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Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
Configuration software	
• required	STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA Portal) or higher

controller / maximum

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	Yes	
Configuration with STEP 7	Yes	
Product functions / redundancy		
Product function		
Ring redundancy	Yes	
Redundancy manager	Yes	
Protocol / is supported / Media Redundancy Protocol	Yes	
(MRP)		
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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