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-of-day synchronization; extended web diagnostics; Fast Startup; Support for PROFIenergy;

transfer rate	
transfer rate	
at the 1st interface	10 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	2
number of electrical connections	
at the 1st interface / according to Industrial Ethernet	2
type of electrical connection	
at the 1st interface / according 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 operation / maximum 	95 %
protection class IP	IP20
design, dimensions and weights	
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 components / gene	eral
number of units	
• per CPU / maximum	14
• note	max. 4 as PN IO ctrl.
performance data / open communication	

number of possible connections / for open communication / by	64
means of SEND/RECEIVE blocks / maximum	
data volume	
 as user data per ISO 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
 as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum 	2 Kibyte
number of possible connections / for open communication	
 by means of T blocks / maximum 	64
data volume	
as user data per ISO on TCP connection / for open	1452 byte
communication / by means of T blocks / maximum	
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	128; when using several CPUs
with PG connections / maximum	2
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	128
performance data / PROFINET communication / as PN IO control	oller
product function / PROFINET IO controller	Yes
number of PN IO devices / on PROFINET IO controller / operable / total	128
number of PN IO IRT devices / on PROFINET IO controller / operable	64
number of external PN IO lines / with PROFINET / per rack	4
data volume	
 as user data for input variables / as PROFINET IO controller / maximum 	4 Kibyte
 as user data for output 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 as user data for output variables per PN IO device / for 	240 byte 240 byte
each sub-module as PROFINET IO controller / maximum	2-10 byto
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 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA Portal) or higher
product function / is supported / identification link	Yes; according to IEC 61406-1:2022
product functions / diagnostics	, ,
product function / web-based diagnostics	Yes
product function / web-based diagnostics product functions / switch	100
•	Vec
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

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security information Siemethat s In ord threat state soluti for pr netwo to an neces netwo	ens provides products and solutions with industrial cybersecurity functions support the secure operation of plants, systems, machines and networks. er to protect plants, systems, machines and networks against cyber s, it is necessary to implement – and continuously maintain – a holistic, of-the-art industrial cybersecurity concept. Siemens' products and one constitute one element of such a concept. Customers are responsible eventing unauthorized access to their plants, systems, machines and orks. Such systems, machines and components should only be connected enterprise network or the internet if and to the extent such a connection is sary and only when appropriate security measures (e.g. firewalls and/or ork segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit

Approvals / Certificates

General Product Approval



Declaration of Conformity









EMV For use in hazardous locations Marine / Shipping

<u>KC</u>





<u>FM</u>

CCC-Ex



Marine / Shipping

Environment







NK / Nippon Kaiji Kyokai CCS (China Classification Society)

Confirmation

Environment



last modified:

8/22/2024

