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 / 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 communication / by means of SEND/RECEIVE blocks / maximum	64
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 communication / by means of T blocks / maximum	1452 byte
performance data / S7 communication	
number of possible connections / for S7 communication	100
• maximum	128; when using several CPUs
with PG connections / maximum	2
performance data / multi-protocol mode	400
number of active connections / with multi-protocol mode	128
performance data / PROFINET communication / as PN IO control	
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 	240 byte
as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum	240 byte
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	Voc
SNMP v1 DCP	Yes Yes
• LLDP	Yes
configuration software	100
• required	STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA Portal) or higher
product function / is supported / identification link	Yes
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
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• 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
 SIMATIC time synchronization (SIMATIC Time) 	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
as marking	Ex nA IIC T4 Gc
further information / internet links	
internet link	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
 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	
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