# **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
1.1.6	
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	
<ul> <li>at 25 °C / without condensation / during</li> </ul>	95 %
operation / maximum	
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 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
Number of possible connections / for open communication / by means of SEND/RECEIVE	64
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	64
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum  Amount of data	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
Number of possible connections / for open 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	
Number of possible connections / for open 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  • as user data per ISO on TCP connection / for open communication / by means of	8 Kibyte
Number of possible connections / for open 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  • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum  • as user data per TCP connection / for open communication / by means of SEND/RECEIVE	8 Kibyte 8 Kibyte
Number of possible connections / for open 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  as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum  as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum  as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE	8 Kibyte  8 Kibyte  8 Kibyte
Number of possible connections / for open 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  • as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum  • as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum  • as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum  Number of possible connections / for open	8 Kibyte  8 Kibyte  8 Kibyte

• 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	128
controller / usable / total	
Number of PN IO IRT devices / on PROFINET IO	64
controller / usable	
Number of external PN IO lines / with PROFINET /	4
per rack	
Amount of data	
<ul><li>as user data for input variables / as PROFINET</li></ul>	4 Kibyte
IO controller / maximum	
<ul> <li>as user data for input variables / as PROFINET</li> </ul>	4 Kibyte
IO controller / maximum	
<ul> <li>as user data for input variables per PN IO</li> </ul>	1433 byte
device / as PROFINET IO controller / maximum	
<ul> <li>as user data for output variables per PN IO</li> </ul>	1433 byte
device / as PROFINET IO controller / maximum	
<ul> <li>as user data for input variables per PN IO</li> </ul>	240 byte
device / for each sub-module as PROFINET IO	
controller / maximum	
<ul> <li>as user data for output variables per PN IO</li> </ul>	240 byte
device / for each sub-module as PROFINET IO	
controller / maximum	

Product functions /		

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 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
<ul><li>Configuration with STEP 7</li></ul>	Yes
Product functions / redundancy	
Product function	
<ul><li>Ring redundancy</li></ul>	Yes
<ul> <li>Redundancy manager</li> </ul>	Yes
Protocol / is supported / Media Redundancy Protocol	Yes
(MRP)	
Product functions / Security	
Product function	
<ul> <li>password protection for Web applications</li> </ul>	No
ACL - IP-based	Yes
<ul> <li>ACL - IP-based for PLC/routing</li> </ul>	No
<ul><li>switch-off of non-required services</li></ul>	Yes
<ul> <li>Blocking of communication via physical ports</li> </ul>	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	
<ul> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	http://www.siemens.com/snst
<ul> <li>to website: Industrial communication</li> </ul>	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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