# **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	
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	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	
<ul> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	1.4 A
power loss [W]	7.25 W
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	0 60 °C
<ul> <li>during storage</li> </ul>	-40 +70 °C
during transport	-40 +70 °C
relative humidity	
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	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	
<ul> <li>as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	2 Kibyte
number of possible connections / for open communication	
<ul> <li>by means of T blocks / maximum</li> </ul>	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
<ul><li>with PG connections / maximum</li></ul>	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	
<ul> <li>as user data for input variables / as PROFINET IO controller / maximum</li> </ul>	4 Kibyte
<ul> <li>as user data for output variables / as PROFINET IO controller / maximum</li> </ul>	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
<ul> <li>as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> <li>as user data for output variables per PN IO device / for</li> </ul>	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	, <del>, </del>
product function / web-based diagnostics	Yes
product function / web-based diagnostics product functions / switch	100
•	Vec
product feature / switch	Yes
product function	
<ul><li>switch-managed</li></ul>	No
<ul> <li>with IRT / PROFINET IO switch</li> </ul>	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	
<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
<ul> <li>log file for unauthorized access</li> </ul>	No
product functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
<ul> <li>SIMATIC time synchronization (SIMATIC Time)</li> </ul>	Yes
standards, specifications, approvals	
reference code	
<ul> <li>according to IEC 81346-2:2019</li> </ul>	KEC
standards, specifications, approvals / Environmental Product I	Declaration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	291.68 kg
during manufacturing	63.62 kg
<ul> <li>during operation</li> </ul>	226.98 kg
after end of life	1.08 kg
further information / internet links	
internet link	
internet link • to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
	https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net
• to web page: selection aid TIA Selection Tool	
<ul><li>to web page: selection aid TIA Selection Tool</li><li>to website: Industrial communication</li></ul>	https://www.siemens.com/simatic-net
<ul> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to web page: SiePortal</li> </ul>	https://www.siemens.com/simatic-net https://sieportal.siemens.com/
<ul> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> </ul>	https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb
to web page: selection aid TIA Selection Tool     to website: Industrial communication     to web page: SiePortal     to website: Image database     to website: CAx-Download-Manager     to website: Industry Online Support  security information	https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
<ul> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax

#### Approvals / Certificates

**General Product Approval** 



Declaration of Conformity









EMV For use in hazardous locations Marine / Shipping

<u>KC</u>





<u>FM</u>



Marine / Shipping

Environment







NK / Nippon Kaiji Kyokai CCS (China Classification Society)

CCC-Ex

Confirmation

Environment



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