## **SIEMENS**

## Data sheet

## 6GK7443-1EX30-0XE0

SIMATIC NET CP 443-1 2 X 10/100 MBIT/S (IE SWITCH); RJ 45 PORTS; ISO; TCP; UDP; PROFINET-IO CONTROLLER; S7-COMMUNCATION; OPEN COMMUNICATION (SEND/RE- CEIVE); S7-ROUTING; IP-CONFIGU- RATION VIA DHCP/BLOCK; IP ACCESSS CONTROL LIST; TIME- SYNCHRONISATION; EXTENDED WEB-DIAGNOSIS; FAST STARTUP; PROFIENERGY SUPPORT

Transmission 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 / for DC	
● at 5 V	5 %
Consumed current	
<ul> <li>from backplane bus / for DC / at 5 V / typical</li> </ul>	1.4 A
Active power loss	7.25 W
Permitted ambient conditions	
Ambient temperature	
<ul> <li>during operation</li> </ul>	0 60 °C
• during storage	-40 +70 °C
during transport	-40 +70 °C

during operation / maximum       IP20         Protection class IP       IP20         Design, dimensions and weight       Compact module S7-400 single width         Module format       Compact module S7-400 single width         Width       25 mm         Height       290 mm         Depth       210 mm         Net weight       0.7 kg         Product properties, functions, components / general         Number of units       • per CPU / maximum         14		
Module format       Compact module S7-400 single width         Width       25 mm         Height       290 mm         Depth       210 mm         Net weight       0.7 kg		
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Height     290 mm       Depth     210 mm       Net weight     0.7 kg		
Depth     210 mm       Net weight     0.7 kg       Product properties, functions, components / general       Number of units		
Net weight     0.7 kg       Product properties, functions, components / general       Number of units		
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		
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     8 Kibyte		
open communication / by means of		
SEND/RECEIVE blocks / maximum		
as user data per TCP connection / for open     8 Kibyte		
communication / by means of SEND/RECEIVE		
blocks / maximum		
as user data per UDP connection / for open IE     2 Kibyte		
communication / by means of SEND/RECEIVE blocks / maximum		
Number of possible connections / for open		
communication		
• by means of T blocks / maximum 64		
Amount of data		
as user data per ISO on TCP connection / for     1452 byte		
open communication / by means of T blocks /		
maximum		
Performance data / S7 communication		
Number of possible connections / for S7		
communication		
• maximum 128		
• with PG connections / maximum 2		

• Note	when using several CPUs	
Performance data / multi-protocol mode		
Number of active connections / with multi-protocol	128	
mode		
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 / per rack	4	
Amount of data		
<ul> <li>as user data for input variables / as PROFINET</li> <li>IO controller / maximum</li> </ul>	4 Kibyte	
<ul> <li>as user data for input variables / as PROFINET</li> <li>IO controller / maximum</li> </ul>	4 Kibyte	
<ul> <li>as user data for input variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte	
<ul> <li>as user data for output variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte	
<ul> <li>as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte	
<ul> <li>as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte	
Performance data / telecontrol		
Protocol / is supported		
• TCP/IP	Yes	
Product functions / management, configuration		
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 / Diagnosis		
Product function / Web-based diagnostics	Yes	
Product functions / switch		

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	
<ul> <li>Ring redundancy</li> </ul>	Yes
<ul> <li>Redundancy manager</li> </ul>	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
Further Information / Internet Links	
Internet-Link	
<ul> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	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/automation/net/catalog
• 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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