## SIEMENS

## Data sheet

Product type designation

## 6GK7443-1EX30-0XE1

## 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; Conformal coating

Figure similar

Transfer 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 / 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
<ul> <li>during storage</li> </ul>	-40 +70 °C
• during transport	-40 +70 °C
• Note	Operation from 0 °C to 70 °C possible as of hardware version 2
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 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 communication / by means of SEND/RECEIVE blocks / maximum	64
Amount of data	
<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
Amount of data	

<ul> <li>as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum</li> </ul>	1452 byte	
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	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 /	4	
per rack		
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	

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 functions / Diagnostics	Product functions / Diagnostics		
Product function / Web-based diagnostics	Yes		
Product functions / Switch			
Product feature / Switch	Yes		
Product function			
<ul> <li>switch-managed</li> </ul>	No		
with IRT / PROFINET IO switch	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	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		
<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/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		

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