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Data sheet

Product type designation

6GK7443-1EX30-0XE0

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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;

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 / 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	
Permitted 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 /	95 %	
during operation / maximum		
Protection class IP	IP20	
Design, dimensions and weight		
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 / genera		
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	
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 	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	
Amount of data		
 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	
 with PG connections / maximum 	2	
Note	when using several CPUs	
Performance data / multi-protocol mode	400	
Number of active connections / with multi-protocol mode	128	
Performance data / PROFINET communication / as	S 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		
 as user data for input variables / as PROFINET IO controller / maximum 	4 Kibyte	
 as user data for input 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 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	
 switch-managed 	No
with IRT / PROFINET IO switch	Yes
 Configuration with STEP 7 	Yes
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Product functions / Redundancy	
Product function	Yes
Ring redundancy	
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
Accessories	
Further Information / Internet Links	
Internet-Link	
 to website: Selector SIMATIC NET SELECTION TOOL 	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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