SIEMENS

Data sheet

Product type designation

6GK7443-1GX30-0XE0



CP 443-1 Advanced

Communications processor CP 443-1 Advanced 1x 10/100/1000 Mbit/s, 4x 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; PROFIenergy support; IP routing; FTP; Web server; E-mail; PROFINET CBA, security

Transfer rate	
Transfer rate	
• at the 1st interface	10 1000 Mbit/s
• at the 2nd interface	10 100 Mbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	5
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	1
• at the 2nd interface / acc. to Industrial Ethernet	4
Type of electrical connection	
 at the 1st interface / acc. to Industrial Ethernet 	RJ45 port
• at the 2nd interface / acc. to Industrial Ethernet	RJ45 port
design of the removable storage / C-PLUG	Yes
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	

Consumed current - In • from backplane bus / at DC / at 5 V / typical 1.8 A Power loss (W) 9 W Ambient temperature - during temperature <l< th=""><th>• at 5 V</th><th>5 %</th></l<>	• at 5 V	5 %
• from backplane bus / at DC / at 5 V / typical 1.8 A Power loss [M] 9 W Ambient conditions Ambient temperature • during storage 40 40 °C • during storage 40 470 °C • during transport 40 470 °C • at 25 °C / without condensation / during operation / maximum 95 % Protection class IP IP20 Design, dimensions and weights Compact module \$7400 single width Width 25 mm Height 280 mm Destign, dimensions and weights Compact module \$7400 single width Width 25 mm Height 280 mm Destign of infs 210 mm Number of units general • per CPU / maximum 14 • Note max. 4 as PN IO ctrl. Performance data / open communication 64 • as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum 84 • as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum 84 • as user data per ISO connection / for open is user data per ISO connection		
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communication	communication / by means of SEND/RECEIVE	2 Kibyte
• 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; when using several CPUs
 with PG connections / maximum 	2
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol	128
mode	
Performance data / IT functions	
Number of possible connections	
 as client / by means of FTP / maximum 	20
 as server / by means of FTP / maximum 	10
Number of possible connections	
 as server / by means of HTTP / maximum 	4
 as e-mail client / maximum 	1
Amount of data / as user data for email / maximum	8 Kibyte
Storage capacity / of the user memory	
 as flash memory file system 	30 Mibyte
● as RAM	16 Mibyte
 additionally buffered as RAM via central backup 	512 Kibyte
battery	
Number of possible write cycles / of the flash memory	100000
cells	
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	
as user data for input variables / as PROFINET	4 Kibyte
IO controller / maximum	
 as user data for input variables / as PROFINET 	4 Kibyte
IO controller / maximum	
 as user data for input variables per PN IO 	1433 byte
device / as PROFINET IO controller / maximum	

1433 byte
240 byte
240 byte
64
600
8 Kibyte
8 Kibyte
8 Kibyte
250 byte
2400 byte

Performance data / PROFINET CBA / remote interc	connection / with acyclic transfer
Refresh time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA	100 ms
Number of remote connections to input variables / in the case of acyclic transmission / with PROFINET CBA / maximum	150
Number of remote connections to output variables / in the case of acyclic transmission / with PROFINET CBA / maximum	150
Amount of data	
 as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA 	8 Kibyte
 as user data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA 	8 Kibyte
Performance data / PROFINET CBA / remote interconnection / with cyclic transfer	
Defrech time / of the remote interconnections / with	10 mg

Refresh time / of the remote interconnections / with	10 ms
PROFINET CBA / with cyclical transfer	

Number of remote connections to input variables / with PROFINET CBA / with cyclical transfer / maximum	250
Number of remote connections to output variables / with PROFINET CBA / with cyclical transfer / maximum	250
Amount of data	
 as user data for remote interconnections with input variables / with PROFINET CBA / with cyclical transfer / maximum 	2000 byte
 as user data for remote interconnections with output variables / with PROFINET CBA / with cyclical transfer / maximum 	2000 byte
Performance data / PROFINET CBA / HMI variable	
Number of connectable HMI stations / for HMI	
variables / in the case of acyclic transmission / with PROFINET CBA	
Refresh time / of the HMI variables / in the case of acyclic transmission / with PROFINET CBA	500 ms
Number of HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	200
Amount of data / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte
Performance data / PROFINET CBA / device-intern	al interconnections
Number of internal connections / with PROFINET CBA / maximum	300
Amount of data / of the internal connections / with PROFINET CBA / maximum	2400 byte
Performance data / PROFINET CBA / interconnecti	ons to constants
Number of connections with constants / with PROFINET CBA / maximum	500
Amount of data / as user data for interconnections with constants / with PROFINET CBA / maximum	4000 byte
Performance data / PROFINET CBA / PROFIBUS p	proxy functionality
Product function / with PROFINET CBA / PROFIBUS proxy functionality	No
Product functions / management, configuration, eng	ineering
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v3	Yes
• DCP	Yes
• LLDP	Yes

Configuration software	
• required	STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA
	Portal) or higher
 for PROFINET CBA / required 	SIMATIC iMap V3.0 SP1 and higher

Product functions / Diagnostics	
Product function / Web-based diagnostics	Yes
Draduat functiona / Switch	
Product functions / Switch	
Product feature / Switch	Yes
Product function	
 switch-managed 	No
 with IRT / PROFINET IO switch 	Yes
 Configuration with STEP 7 	Yes
Product functions / redundancy	
Product function	
Ding redundancy	Voc

 Ring redundancy 	Yes
 Redundancy manager 	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes

Product functions / Security	
Firewall version	stateful inspection
Product function / with VPN connection	IPSec
Type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
Type of authentication procedure / with VPN connection	Preshared key (PSK), X.509∨3 certificates
Type of hashing algorithms / with VPN connection	MD5, SHA-1
Number of possible connections / with VPN connection	32
Product function	
 password protection for Web applications 	Yes
ACL - IP-based	Yes
 ACL - IP-based for PLC/routing 	Yes
 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
Further information / Internet-Links	
Internet-Link	

• to website: Selector SIMATIC NET SELECTION TOOL

- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

Security information

Security information

last modified:

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http://www.siemens.com/simatic-net

- https://mall.industry.siemens.com
- http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

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