SIEMENS

Data sheet

6GK7443-1GX30-0XE0

product type designation



CP 443-1 Advanced

Communications processor CP 443-1 Advanced 1x 10/100/1000 Mbps, 4x 10/100 Mbps (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; PROFlenergy support; IP routing; FTP; Web server; email; please note SIOS ID: 109799025

transfer rate		
transfer rate		
at the 1st interface	10 1000 Mbit/s	
 at the 2nd interface 	10 100 Mbit/s	
interfaces		
number of interfaces / according to Industrial Ethernet	5	
number of electrical connections		
 at the 1st interface / according to Industrial Ethernet 	1	
at the 2nd interface / according to Industrial Ethernet	4	
type of electrical connection		
 at the 1st interface / according to Industrial Ethernet 	RJ45 port	
• at the 2nd interface / according 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		
● at 5 V	5 %	
consumed current		
 from backplane bus / at DC / at 5 V / typical 	1.8 A	
power loss [W]	9 W	
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 / 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 components / general		
number of units		

performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum data volume • 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 open 8	nax. 4 as PN IO ctrl.	
performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum data volume • 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 open 8		
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum data volume • 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 open 8	34	
 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 open 8 		
communication / by means of SEND/RECEIVE blocks / maximum • as user data per ISO on TCP connection / for open 8		
	3 Kibyte	
communication / by means of SEND/RECEIVE blocks / maximum	3 Kibyte	
 as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	3 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	4	
data volume ● as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum	452 byte	
performance data / S7 communication		
number of possible connections / for S7 communication • maximum 12	28; when using several CPUs	
• with PG connections / maximum 2		
performance data / multi-protocol mode		
	28	
performance data / IT functions		
number of possible connections		
• as client / by means of FTP / maximum	20	
as server / by means of FTP / maximum	0	
number of possible connections		
• as server / by means of HTTP / maximum 4		
as email client / maximum		
data volume / as user data for email / maximum 8	3 Kibyte	
storage capacity / of the user memory		
• as flash memory file system 30	30 Mibyte	
• as RAM	6 Mibyte	
additionally buffered as RAM via central backup battery	512 Kibyte	
number of possible write cycles / of the flash memory cells	00000	
performance data / PROFINET communication / as PN IO controller		
product function / PROFINET IO controller	/es	
number of PN IO devices / on PROFINET IO controller / operable / total	28	
number of PN IO IRT devices / on PROFINET IO controller / operable	4	
number of external PN IO lines / with PROFINET / per rack 4		
	l Kibyte	
	ł Kibyte	
controller / maximum • as user data for input variables per PN IO device / as PROFINET IO controller / maximum	433 byte	
	433 byte	
	240 byte	
	240 byte	
product functions / management, configuration, engineering		
product function / MIB support	/es	
protocol / is supported		
• SNMP v1	/es	

a CNIMD v2	Voc
SNMP v3 DCP	Yes Yes
• LLDP	
	Yes
configuration software	CTED 7 VE 5 CD2 or higher / CTED 7 Desfectional V/2 /TIA Destell or higher
• required	STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA Portal) or higher
product function / is supported / identification link	Yes
product functions / diagnostics	V
product function / web-based diagnostics	Yes
product functions / switch	V.
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	
• 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.509v3 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
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
	Ex nA IIC T4 Gc
as marking further information / internet links	EXTIA IIC 14 GC
internet link	http://www.cicmong.com/kig.gc/scfice_tec/
to web page: selection aid TIA Selection Tool to website: Industrial communication	http://www.siemens.com/tia-selection-tool
to website: Industrial communication to website: Industry Mall	http://www.siemens.com/simatic-net
to website: Industry Mall to website: Information and Download Contact	https://mail.industry.siemens.com
to website: Information and Download Center to website: Image database	http://www.siemens.com/industry/infocenter
to website: Image database As website: CAy Dayreland Manager	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager to website: Industry Online Cymnort	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product
	concept) and integrate each component into a holistic, state-of-the-art indu security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit

	information, visit http://support.automation.siemens.com. (V3.4)
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