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		

• 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
data volume	
 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
 data volume 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; when using several CPUs
 with PG connections / maximum 	2
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	128
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 email client / maximum	1
data volume / as user data for email / maximum	8 Kibyte
storage capacity / of the user memory	
as flash memory file system	30 Mibyte
as RAM additionally buffered as RAM via control backup battery	16 Mibyte
additionally buffered as RAM via central backup battery	512 Kibyte
number of possible write cycles / of the flash memory cells performance data / PROFINET communication / as PN IO control	100000
product function / PROFINET IO controller	Yes
number of PN IO devices / on PROFINET IO controller	128
operable / total	
number of PN IO IRT devices / on PROFINET IO controller / operable	64
number of external PN IO lines / with PROFINET / per rack	4
 data volume as user data for input variables / as PROFINET IO controller / maximum 	4 Kibyte
as user data for output 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 functions / management, configuration, engineering	
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
product function / is supported / identification link	Yes
product functions / diagnostics	
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
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
 as marking 	Ex nA IIC T4 Gc
further information / internet links	
internet link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 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
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 considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more
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