# **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	
<ul> <li>at the 2nd interface</li> </ul>	10 100 Mbit/s	
interfaces		
number of interfaces / according to Industrial Ethernet	5	
number of electrical connections		
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	1	
at the 2nd interface / according to Industrial Ethernet	4	
type of electrical connection		
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	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		
<ul> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	1.8 A	
power loss [W]	9 W	
ambient conditions		
ambient temperature		
<ul> <li>during operation</li> </ul>	0 60 °C	
<ul> <li>during storage</li> </ul>	-40 +70 °C	
during transport	-40 +70 °C	
relative humidity		
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	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		
<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		
by means of T blocks / maximum	64	
<ul> <li>data volume</li> <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	
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		
<ul><li>as client / by means of FTP / maximum</li></ul>	20	
as server / by means of FTP / maximum	10	
number of possible connections		
<ul><li>as server / by means of HTTP / maximum</li></ul>	4	
as email client / maximum	1	
data volume / as user data for email / maximum	8 Kibyte	
storage capacity / of the user memory		
<ul> <li>as flash memory file system</li> </ul>	30 Mibyte	
• as RAM	16 Mibyte	
additionally buffered as RAM via central backup battery	512 Kibyte	
number of possible write cycles / of the flash memory cells	100000	
performance data / PROFINET communication / as PN IO controller		
product function / PROFINET IO controller	Yes	
number of PN IO devices / on PROFINET IO controller / operable / total	128	
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	4 Kibyte	
controller / maximum  • as user data for output variables / as PROFINET IO	4 Kibyte	
controller / maximum  • as user data for input variables per PN IO device / as	1433 byte	
PROFINET IO controller / maximum  • as user data for output variables per PN IO device / as	1433 byte	
PROFINET IO controller / maximum  • as user data for input variables per PN IO device / for	240 byte	
each sub-module as PROFINET IO controller / maximum     as user data for output variables per PN IO device / for	240 byte	
each sub-module as PROFINET IO controller / maximum		
product functions / management, configuration, engineering	V	
product function / MIB support	Yes	
protocol / is supported	Von	
• SNMP v1	Yes	

a CNIMD v2	Von
SNMP v3     DCP	Yes Yes
• LLDP	
	Yes
configuration software	CTED 7 \/E E CD2 or higher / CTED 7 Desfeccional \/42 /TIA Destal\ 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
oduct functions / diagnostics	V
product function / web-based diagnostics	Yes
oduct functions / switch	V
product feature / switch	Yes
product function	
switch-managed	No .
with IRT / PROFINET IO switch	Yes
configuration with STEP 7	Yes
oduct functions / redundancy	
product function	
• ring redundancy	Yes
redundancy manager	Yes
orotocol / is supported / Media Redundancy Protocol (MRP)	Yes
oduct functions / security	
irewall version	stateful inspection
product function / with VPN connection	IPSec
ype of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
ype of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
ype 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
oduct functions / time	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
andards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
	Ex nA IIC T4 Gc
as marking  rther information / internet links	EXTIATIO 14 GC
nternet link	hatta albanan aran kira ar
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 Contar	https://mall.industry.siemens.com
to website: Information and Download Center     to website: Image database	http://www.siemens.com/industry/infocenter
to website: Image database     to website: CAy Dayreland Manager	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager     to website: Individual Collins Support	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
curity information	
ecurity information	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
security information	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 regulate check for product updates. For the secure operation of Siemens product solutions, it is necessary to take suitable preventive action(e.g. cell protuct concept) and integrate each component into a holistic, state-of-the-art in security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit

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