SIEMENS

Data sheet

transfer rate

6GK7443-1EX30-0XE0

product type designation



CP 443-1

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-of-day synchronization; extended web diagnostics; Fast Startup; Support for PROFlenergy;

transfer rate • at the 1st interface • at the 1st interfaces / according to Industrial Ethernet number of interfaces / according to Industrial Ethernet 2 number of electrical connections • at the 1st interface / according to Industrial Ethernet type of electrical connection • at the 1st interface / according to Industrial Ethernet design of the removable storage • C-PLUG No supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / 1 / from backplane bus • at 5 V consumed current • from backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature • during operation • during operation • during storage • during transport relative humidity • at 25 ° C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width 25 mm height 290 mm depth net weight product features, product functions, product components / general number of units • per CPU / maximum 14 • note max. 4 as PN IO ctrl.	transfer rate	
Interfaces number of interfaces / according to Industrial Ethernet number of electrical connections	transfer rate	
number of interfaces / according to Industrial Ethernet number of electrical connections • at the 1st interface / according to Industrial Ethernet type of electrical connection • at the 1st interface / according to Industrial Ethernet design of the removable storage • C-P-LUG supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / 1 / from backplane bus relative symmetrical tolerance / at DC • at 5 V consumed current • from backplane bus / at DC / at 5 V / typical ne from backplane bus / at DC / at 5 V / typical ambient conditions ambient emperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width height depth quits • per CPU / maximum 14	• at the 1st interface	10 100 Mbit/s
number of electrical connections	interfaces	
type of electrical connection ● at the 1st interface / according to Industrial Ethernet design of the removable storage ● C-PLUG No supply voltage, current consumption, power loss type of voltage / of the supply voltage ■ Supply voltage / of the supply voltage / of the supply voltage ■ Supply voltage / of the supp	number of interfaces / according to Industrial Ethernet	2
type of electrical connection • at the 1st interface / according to Industrial Ethernet design of the removable storage • C-PLUG supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / 1 / from backplane bus 5 V relative symmetrical tolerance / at DC • at 5 V consumed current • from backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature • during operation • during transport • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width 25 mm height depth 10	number of electrical connections	
• at the 1st interface / according to Industrial Ethernet design of the removable storage • C-PLUG supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / of the suppl	at the 1st interface / according to Industrial Ethernet	2
design of the removable storage	type of electrical connection	
C-PLUG supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / 1 / from backplane bus eat 5 V consumed current inform backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature during operation during storage during transport relative humidity at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width 25 mm height depth 290 mm depth net weight product features, product functions, product components / general number of units i per CPU / maximum 14	at the 1st interface / according to Industrial Ethernet	RJ45 port
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 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 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 product functions, product components / general number of units • per CPU / maximum 14	design of the removable storage	
type of voltage / of the supply voltage supply voltage / 1 / from backplane bus relative symmetrical tolerance / at DC • at 5 V consumed current • from backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width eight 290 mm depth net weight product features, product functions, product components / general number of units • per CPU / maximum 14	• C-PLUG	No
supply voltage / 1 / from backplane bus relative symmetrical tolerance / at DC • at 5 V consumed current • from backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width height depth net weight product features, product functions, product components / general number of units • per CPU / maximum 14	supply voltage, current consumption, power loss	
relative symmetrical tolerance / at DC • at 5 V consumed current • from backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature • during operation • during storage • during transport • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width 25 mm height depth net weight product features, product functions, product components / general number of units • per CPU / maximum 14	type of voltage / of the supply voltage	DC
• at 5 V consumed current • from backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width height depth net weight product features, product functions, product components / general number of units • per CPU / maximum 1.4 A 1.4 A 5 % 5 % 1.4 A 7.25 W 1.4 A 7.25 W 1.4 A 7.25 W 1.4 A 1.5 A 1.6 C C -40 +70 °C	supply voltage / 1 / from backplane bus	5 V
consumed current • from backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width beight compact module \$7-400 single width 290 mm depth net weight product features, product functions, product components / general number of units • per CPU / maximum 14	relative symmetrical tolerance / at DC	
• from backplane bus / at DC / at 5 V / typical power loss [W] ambient conditions ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width beight depth net weight product features, product functions, product components / general number of units • per CPU / maximum 14	● at 5 V	5 %
power loss [W] ambient conditions ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width height depth net weight product features, product functions, product components / general number of units • per CPU / maximum 7.25 W 7.25 W 7.25 W 7.25 W A.25 W A.25 W A.25 °C A.20 °C -40 +70 °C -40	consumed current	
ambient conditions ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width height depth 120 mm net weight product features, product functions, product components / general number of units • per CPU / maximum 0 60 °C -40 +70 °C -40 +70 °C 95 % ENDED Compact module S7-400 single width 25 mm 290 mm 210 mm 0.7 kg product features, product functions, product components / general number of units • per CPU / maximum 14	• from backplane bus / at DC / at 5 V / typical	1.4 A
ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width height depth net weight product features, product functions, product components / general number of units • per CPU / maximum 0 60 °C -40 +70 °C -40 +70 °C IP20 DESTINATION OF THE METHOD OF T	power loss [W]	7.25 W
 during operation during storage during transport during transport 40 +70 °C relative humidity at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights module format Compact module S7-400 single width width 25 mm height depth net weight product features, product functions, product components / general number of units per CPU / maximum 14 	ambient conditions	
 during storage during transport 40 +70 °C relative humidity at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights module format Compact module S7-400 single width width 25 mm height depth net weight net weight 0.7 kg product features, product functions, product components / general number of units per CPU / maximum 14 	ambient temperature	
 during transport relative humidity at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width 25 mm height depth net weight product features, product functions, product components / general number of units per CPU / maximum 14 	during operation	0 00 °C
relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format Compact module S7-400 single width width 25 mm height depth 290 mm depth net weight 0.7 kg product features, product functions, product components / general number of units • per CPU / maximum 95 % Compact module S7-400 single width 25 mm 290 mm 290 mm 210 mm 14	5 5	-40 +70 °C
 at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights module format width width beight depth 290 mm depth 210 mm net weight net weight net weight product features, product functions, product components / general number of units per CPU / maximum 14 	during transport	-40 +70 °C
maximum protection class IP 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	relative humidity	
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	<u> </u>	95 %
module format width 25 mm height 290 mm depth 210 mm net weight product features, product functions, product components / general number of units per CPU / maximum Product features Compact module S7-400 single width 25 mm 0.7 kg 90 mm 0.7 kg	protection class IP	IP20
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	design, dimensions and weights	
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	module format	Compact module S7-400 single width
depth 210 mm net weight 0.7 kg product features, product functions, product components / general number of units • per CPU / maximum 14	width	25 mm
net weight product features, product functions, product components / general number of units • per CPU / maximum 14	height	290 mm
product features, product functions, product components / general number of units • per CPU / maximum 14	depth	210 mm
number of units • per CPU / maximum 14	net weight	0.7 kg
• per CPU / maximum 14	product features, product functions, product components / general	
	number of units	
note max. 4 as PN IO ctrl.	• per CPU / maximum	14
	• note	max. 4 as PN IO ctrl.

performance data / open communication	
number of possible connections / for open communication	64
/ 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 	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 / PROFINET communication / as PN IO of	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 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, engineeri	ng
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 / diagnostics	
product function / web-based diagnostics product functions / switch	Yes
product feature / switch	Yes
product function	
•	

and the language and	N-
switch-managed	No V
with IRT / PROFINET IO switch	Yes
• configuration with STEP 7	Yes
product functions / redundancy	
product function	v.
• ring redundancy	Yes
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
 SIMATIC time synchronization (SIMATIC Time) 	Yes
standards, specifications, approvals / hazardous environn	nents
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
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 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 updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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