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 synchronization; extended web diagnostics; fast startup; PROFIenergy support; IP routing; FTP; web server; email; PROFINET CBA, please note SIOS ID: 109799025

transfer rate 10 1000 Mbit/s • at the 1st interface 10 1000 Mbit/s Interfaces 10 1000 Mbit/s number of interfaces / acc. to Industrial Ethernet 5 number of electrical connections 1 • at the 1st interface / acc. to Industrial Ethernet 1 • at the 1st interface / acc. to Industrial Ethernet 1 • at the 1st interface / acc. to Industrial Ethernet 1 • at the 1st interface / acc. to Industrial Ethernet 4 type of electrical connection RJ45 port • at the 1st interface / acc. to Industrial Ethernet RJ45 port design of the removable storage • • C-PLUG Yes supply voltage, current consumption, power loss 5 V type of voltage / of the supply voltage 5 V supply voltage / 1 / from backplane bus 5 V relative symmetrical tolerance / at DC 5 % consumed current 18 A onblent conditions 0 60 °C ambient temperature -40 +70 °C • during operation 0 +70 °C • during torage -40 +70 °C relative humidity 95 %<	transfer rate	
• at the 2nd interface 10 100 Mbit/s interfaces 5 number of interface / acc. to Industrial Ethernet 1 • at the 2nd interface / acc. to Industrial Ethernet 1 • at the 2nd interface / acc. to Industrial Ethernet 1 • at the 1st interface / acc. to Industrial Ethernet 4 type of electical connection 9 • at the 2nd interface / acc. to Industrial Ethernet RJ45 port • at the 1st interface / acc. to Industrial Ethernet RJ45 port • at the 2nd interface / acc. to Industrial Ethernet RJ45 port • at the 2nd interface / acc. to Industrial Ethernet RJ45 port • at the 1st interface / acc. to Industrial Ethernet RJ45 port design of the removable storage • C-PLUG • UG supply voltage, current consumption, power loss Type of voltage / of the supply voltage Symmetrical tolerance / at DC • at 5 V consumed current • from backplane bus / at DC / at 5 V / typical • Inform Conditions 1.8 A ambient conditions 0 60 °C • during storage -40 +70 °C • during storage -40 +70 °C • during storage -40 +70 °C <td>transfer rate</td> <td></td>	transfer rate	
Interfaces number of interfaces / acc. to Industrial Ethernet 5 number of electrical connections 1 • at the 1 sti interface / acc. to Industrial Ethernet 1 • at the 1 sti interface / acc. to Industrial Ethernet 4 type of electrical connection • at the 2nd interface / acc. to Industrial Ethernet 4 vipe of electrical connection • 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 5 % consumed current • from backplane bus / at DC / at 5 V / typical 9 K ontig torage - 40 +70 °C - 40 +70 °C • during vorage - 40 +70 °C - 40 +70 °C relative humidity 95 % 95 % • at 25 °C / without condensation / during operation / maximum 95 % 95 % protection class IP IP20 IP20 design, dimensions and weights Compact module S7-400 single width module format	 at the 1st interface 	10 1000 Mbit/s
number of interfaces / acc. to Industrial Ethernet 5 number of electrical connections 1 • at the 3rd interface / acc. to Industrial Ethernet 1 • at the 2nd interface / acc. to Industrial Ethernet 4 type of electrical connection • • at the 2nd 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 type of voltage / 1 / from backplane bus 5 V relative symmetrical tolerance / at DC 6 N • at 5 V 5 % consumed current 1.8 A • from backplane bus / at DC / at 5 V / typical 9 W ambient temperature 0 60 °C • during operation 0 60 °C • during istorage -40 +70 °C relative symmum 95 % arbient condistions 95 % ambient temperature -40 +70 °C • during istorage -40 +70 °C relative humidity 95 % <t< td=""><td> at the 2nd interface </td><td>10 100 Mbit/s</td></t<>	 at the 2nd interface 	10 100 Mbit/s
number of electrical connections at the 1st interface / acc. to Industrial Ethernet at the 2nd interface / acc. to Industrial Ethernet at the 2nd interface / acc. to Industrial Ethernet at the 2nd interface / acc. to Industrial Ethernet at the 2nd interface / acc. to Industrial Ethernet at the 2nd interface / acc. to Industrial Ethernet RJ45 port at the 2nd interface / acc. to Industrial Ethernet RJ45 port 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 from backplane bus / at DC / at 5 V / typical ambient conditions ambient conditions ambient strage -40 +70 °C -d uring transport -40 +70 °C -d uring transport -40 +70 °C -40 +70 °C -40 uning transport -40 +70 °C	interfaces	
• at the 1st interface / acc. to Industrial Ethernet 1 • at the 2nd interface / acc. to Industrial Ethernet 4 type of electrical connection RJ45 port • at the 2nd 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 DC 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 0 60 °C • during operation 0 60 °C • during storage -40 +70 °C relative humidity 95 % at 25 °C / without condensation / during operation / 95 % maximum 10 module format protection class IP IP20 design, dimensions and weights Compact module S7-400 single width <tr< td=""><td>number of interfaces / acc. to Industrial Ethernet</td><td>5</td></tr<>	number of interfaces / acc. to Industrial Ethernet	5
• at the 2nd interface / acc. to Industrial Ethernet 4 type of electrical connection eat the 1st interface / acc. to Industrial Ethernet RJ45 port • at the 2nd interface / acc. to Industrial Ethernet RJ45 port design of the removable storage e • C-PLUG Yes supply voltage, current consumption, power loss ft/pe of voltage / of the supply voltage 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 1.8 A • 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 transport -40 +70 °C • during transport -40 +70 °C relative humidity 95 % anximum 95 % protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm <td>number of electrical connections</td> <td></td>	number of electrical connections	
type of electrical connection at the 1st interface / acc. to Industrial Ethernet ethe 2nd interface / acc. to Industrial Ethernet RJ45 port e 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 at 5 V 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 during storage -40 +70 °C -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 290 mm	 at the 1st interface / acc. to Industrial Ethernet 	1
 at the 1st interface / acc. to Industrial Ethernet at the 2nd interface / acc. to Industrial Ethernet RJ45 port RJ45 port design of the removable storage C-PLUG Yes 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 ambient conditions ambient temperature during operation during storage 40 +70 °C during transport 40 +70 °C during transport at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights module format Compact module S7-400 single width 250 mm 	 at the 2nd interface / acc. to Industrial Ethernet 	4
• at the 2nd interface / acc. to Industrial Ethernet RJ45 port design of the removable storage C-PLUG • C-PLUG Yes supply voltage, current consumption, power loss DC type of voltage / 1 / from backplane bus 5 V relative symmetrical tolerance / at DC 6 V • at 5 V 5 % consumed current 5 % • 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 transport -40 +70 °C • during transport -40 +70 °C relative humidity 95 % maximum 95 % protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	type of electrical connection	
design of the removable storage Yes supply voltage, current consumption, power loss DC type of voltage / of the supply voltage DC supply voltage / 1 / from backplane bus 5 V relative symmetrical tolerance / at DC • at 5 V • at 5 V 5 % consumed current 1.8 A • 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 relative humidity • at 25 °C / without condensation / during operation / protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm	 at the 1st interface / acc. to Industrial Ethernet 	RJ45 port
• C-PLUG Yes supply voltage, current consumption, power loss DC type of voltage / 1 / from backplane bus 5 V relative symmetrical tolerance / at DC 5 % • at 5 V 5 % consumed current 5 % • from backplane bus / at DC / at 5 V / typical 1.8 A power loss [W] 9 W ambient conditions -40 +70 °C • during storage -40 +70 °C • during transport -40 +70 °C relative humidity 95 % maximum 95 % protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	 at the 2nd interface / acc. to Industrial Ethernet 	RJ45 port
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 6 V • at 5 V 5 % consumed current 6 from backplane bus / at DC / at 5 V / typical • from backplane bus / at DC / at 5 V / typical 1.8 A power loss [W] 9 W ambient conditions 0 60 °C ambient temperature -40 +70 °C • during storage -40 +70 °C • during transport -40 +70 °C relative humidity 95 % maximum IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	design of the removable storage	
type of voltage / of the supply voltage DC supply voltage / 1 / from backplane bus 5 V relative symmetrical tolerance / at DC 5 % consumed current 5 % e from backplane bus / at DC / at 5 V / typical 1.8 A power loss [W] 9 W ambient conditions 9 W ambient temperature 0 60 °C • during operation 0 60 °C • during storage -40 +70 °C • during transport -40 +70 °C relative humidity 95 % maximum 95 % protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	• C-PLUG	Yes
supply voltage / 1 / from backplane bus 5 V relative symmetrical tolerance / at DC 5 % consumed current 5 % e from backplane bus / at DC / at 5 V / typical 1.8 A power loss [W] 9 W ambient conditions 3 ambient temperature 0 60 °C • during operation 0 60 °C • during storage -40 +70 °C • during transport -40 +70 °C relative humidity 95 % maximum 95 % protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	supply voltage, current consumption, power loss	
relative symmetrical tolerance / at DC 5 % onsumed current 5 % ornsumed current 1.8 A power loss [W] 9 W ambient conditions ambient temperature • during operation • during storage • during transport -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	type of voltage / of the supply voltage	DC
• at 5 V 5 % consumed current 1.8 A • from backplane bus / at DC / at 5 V / typical 1.8 A power loss [W] 9 W ambient conditions 9 W ambient temperature 0 60 °C • during storage -40 +70 °C • during transport -40 +70 °C relative humidity 95 % maximum 1P20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	supply voltage / 1 / from backplane bus	5 V
consumed current 1.8 A ofrom backplane bus / at DC / at 5 V / typical 1.8 A power loss [W] 9 W ambient conditions 9 W ambient temperature 0 60 °C • during operation 0 40 +70 °C • during transport -40 +70 °C • during transport -40 +70 °C relative humidity 95 % protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	relative symmetrical tolerance / at DC	
• 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 protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	• at 5 V	5 %
power loss [W] 9 W ambient conditions ambient temperature • during operation • 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	consumed current	
ambient conditions ambient temperature • during operation • during storage • during transport • during transport -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	 from backplane bus / at DC / at 5 V / typical 	1.8 A
ambient temperature 0 60 °C • during storage -40 +70 °C • during transport -40 +70 °C • during transport -40 +70 °C relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	power loss [W]	9 W
• during operation0 60 °C• during storage-40 +70 °C• during transport-40 +70 °Crelative humidity-40 +70 °C• at 25 °C / without condensation / during operation / maximum95 %protection class IPIP20design, dimensions and weightsCompact module S7-400 single widthwidth25 mmheight290 mm	ambient conditions	
• during storage -40 +70 °C • during transport -40 +70 °C relative humidity -40 +70 °C • at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights Compact module S7-400 single width width 25 mm height 290 mm	ambient temperature	
• during transport -40 +70 °C relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights module format module format Compact module S7-400 single width width 25 mm height 290 mm	 during operation 	0 60 °C
relative humidity • at 25 °C / without condensation / during operation / 95 % protection class IP IP20 design, dimensions and weights module format module format Compact module S7-400 single width width 25 mm height 290 mm	 during storage 	-40 +70 °C
• at 25 °C / without condensation / during operation / 95 % maximum 95 % protection class IP IP20 design, dimensions and weights Image: Compact module S7-400 single width width 25 mm height 290 mm	during transport	-40 +70 °C
maximum protection class IP IP20 design, dimensions and weights IP20 module format Compact module S7-400 single width width 25 mm height 290 mm	relative humidity	
design, dimensions and weights module format Compact module S7-400 single width width 25 mm height 290 mm		95 %
module format Compact module S7-400 single width width 25 mm height 290 mm	protection class IP	IP20
width 25 mm height 290 mm	design, dimensions and weights	
height 290 mm	module format	Compact module S7-400 single width
	width	25 mm
depth 210 mm	height	290 mm
	depth	210 mm

net weight	0.7 kg
product features, product functions, product components	-
number of units	
per CPU / maximum	14
• note	max. 4 as PN IO ctrl.
performance data / open communication	<u></u>
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
norformonoo data / multi protocol modo	
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	128
number of active connections / with multi-protocol mode performance data / IT functions	128
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections	
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum	20
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum	
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections	20 10
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum	20 10 4
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum	20 10 4 1
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum	20 10 4
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory	20 10 4 1 8 Kibyte
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system	20 10 4 1 8 Kibyte 30 Mibyte
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET communication / as PN IO c	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET communication / as PN IO c	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller Yes
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET communication / as PN IO c product function / PROFINET IO controller number of PN IO devices / on PROFINET IO controller / operable / total	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller Yes 128
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET IO controller number of PN IO devices / on PROFINET IO controller / operable / total number of PN IO IRT devices / on PROFINET IO controller / operable	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller Yes
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET communication / as PN IO of product function / PROFINET IO controller number of PN IO devices / on PROFINET IO controller / operable / total number of PN IO IRT devices / on PROFINET IO controller / operable number of external PN IO lines / with PROFINET / per rack	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller Yes 128
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET communication / as PN IO of product function / PROFINET IO controller number of PN IO devices / on PROFINET IO controller / operable / total number of PN IO IRT devices / on PROFINET IO controller / operable number of external PN IO lines / with PROFINET / per	20 10 4 1 8 Kibyte 30 Mibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller Yes 128 64
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections • as client / by means of FTP / maximum • as server / by means of FTP / maximum number of possible connections • as server / by means of HTTP / maximum • as email client / maximum data volume / as user data for email / maximum storage capacity / of the user memory • as flash memory file system • as RAM • additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET communication / as PN IO of product function / PROFINET IO controller number of PN IO devices / on PROFINET IO controller / operable / total number of PN IO IRT devices / on PROFINET IO controller / operable number of external PN IO lines / with PROFINET / per rack	20 10 4 1 8 Kibyte 30 Mibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller Yes 128 64
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections as client / by means of FTP / maximum as server / by means of FTP / maximum as server / by means of HTTP / maximum as email client / maximum data volume / as user data for email / maximum data volume / as user data for email / maximum storage capacity / of the user memory as flash memory file system as RAM additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET IO controller number of PN IO devices / on PROFINET IO controller / operable / total number of PN IO IRT devices / on PROFINET IO controller / operable number of external PN IO lines / with PROFINET / per rack data volume as user data for input variables / as PROFINET IO	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller Yes 128 64 4
number of active connections / with multi-protocol mode performance data / IT functions number of possible connections as client / by means of FTP / maximum as server / by means of FTP / maximum number of possible connections as server / by means of HTTP / maximum as email client / maximum data volume / as user data for email / maximum data volume / as user data for email / maximum storage capacity / of the user memory as flash memory file system as RAM additionally buffered as RAM via central backup battery number of possible write cycles / of the flash memory cells performance data / PROFINET communication / as PN IO of product function / PROFINET IO controller number of PN IO devices / on PROFINET IO controller / operable / total number of PN IO IRT devices / on PROFINET IO controller / operable number of external PN IO lines / with PROFINET / per rack data volume as user data for input variables / as PROFINET IO controller / maximum as user data for output variables / as PROFINET IO	20 10 4 1 8 Kibyte 30 Mibyte 16 Mibyte 512 Kibyte 100000 controller Yes 128 64 4 4 Kibyte

as PROFINET IO controller / maximum	240 hito
 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 / 	240 byte
for each sub-module as PROFINET IO controller / maximum	
performance data / PROFINET CBA	
number of remote connection partners / with PROFINET	64
	000
number of connections / with PROFINET CBA / total data volume	600
as user data for digital inputs / with PROFINET CBA / maximum	8 Kibyte
 as user data for digital outputs / with PROFINET CBA / maximum 	8 Kibyte
 as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum 	8 Kibyte
 as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum 	250 byte
 as user data for arrays and data types / with PROFINET CBA / in the case of local interconnection / maximum 	2400 byte
performance data / PROFINET CBA / remote interconnection	on / with acyclic transfer
update 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
data volume	
 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	on / with cyclic transfer
update time / of the remote interconnections / with PROFINET CBA / with cyclical transfer	10 ms
number of remote connections to input variables / with PROFINET CBA / with cyclic transfer / maximum	250
number of remote connections to output variables / with PROFINET CBA / with cyclic transfer / maximum	250
data volume	
 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 variables via PROFINET / acyclic	
number of connectable HMI stations / for HMI variables / in the case of acyclic transmission / with PROFINET CBA	3
update 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
data volume / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte
performance data / PROFINET CBA / device-internal interc	onnections
number of internal connections / with PROFINET CBA / maximum	300

data volume / of the internal connections / with PROFINET	2400 byte
CBA / maximum	
performance data / PROFINET CBA / interconnections to c	onstants
number of connections with constants / with PROFINET CBA / maximum	500
data volume / as user data for interconnections with constants / with PROFINET CBA / maximum	4000 byte
performance data / PROFINET CBA / PROFIBUS proxy fund	ctionality
product function / with PROFINET CBA / PROFIBUS proxy functionality	No
product functions / management, configuration, engineering	ng
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
e roquirou	higher
 for PROFINET CBA / required 	SIMATIC iMap V3.0 SP1 and higher
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / switch	
product feature / switch	Yes
product function	105
switch-managed	No
with IRT / PROFINET IO switch	Yes
configuration with STEP 7	Yes
product functions / redundancy	
product function	N .
• 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 environm	
certificate of suitability / CCC / for hazardous zone	Yes
according to GB standard	
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	
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