

Product type designation

SIPLUS NET CP 443-1

SIPLUS NET CP443-1 FOR MEDIAL STRESS WITH CONFORMAL COATING BASED ON 6GK7443-1EX30-0XE0 . 2 X 10/100 MBIT/S (IE SWITCH); RJ 45 PORTS; ISO; TCP; UDP; PROFINET-IO CONTROLLER; S7-COMMUNICATION; OPEN COMMUNICATION (SEND/RE-CEIVE); S7-ROUTING; IP-CONFIGURATION VIA DHCP/BLOCK; IP ACCESS CONTROL LIST; TIME-SYNCHRONISATION; EXTENDED WEB-DIAGNOSIS; FAST STARTUP; PROFIENERGY SUPPORT



Figure similar

Transmission rate

Transfer rate

- at the 1st interface 10 ... 100 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet	2
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	2
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
design of the removable storage / C-PLUG	No

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	1.4 A

Power loss [W]	8.6 W
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Permitted ambient conditions

Ambient temperature	- during operation - during storage - during transport	0 ... 60 °C -40 ... +70 °C -40 ... +70 °C
Ambient condition / relating to ambient temperature - air pressure - installation altitude		-25 ... +70°C at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // -25 ... +60°C at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // -25 ... +50°C at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity / with condensation / maximum		100 %; r.F., incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance to biologically active substances / conformity acc. to EN 60721-3-3		Yes; Compliance with EN 60721-3-3, Class 3B2 mold, fungus, and sponge spores (except fauna). The supplied plug covers must remain in place over the unused interfaces during operation!
Resistance to chemically active substances / conformity acc. to EN 60721-3-3		Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3). The supplied plug covers must remain in place over the unused interfaces during operation!
Resistance to mechanically active substances / conformity acc. to EN 60721-3-3		Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation!
Protection class IP		IP20

Design, dimensions and weight

Module format	Compact module S7-400 single width
Width	25 mm
Height	290 mm
Depth	210 mm
Net weight	0.7 kg

Product properties, functions, components / general

Number of units	
- per CPU / maximum - Note	14 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
Amount of data	
- 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 communication / by means of SEND/RECEIVE blocks / maximum - as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte 8 Kibyte 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
Amount of data • 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 • with PG connections / maximum • Note	128 2 when using several CPUs
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Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	128
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Performance data / PROFINET communication / as PN IO-Controller

Product function / PROFINET IO controller	Yes
Number of PN IO devices / on PROFINET IO controller / usable / total	128
Number of PN IO IRT devices / on PROFINET IO controller / usable	64
Number of external PN IO lines / with PROFINET / per rack	4
Amount of data • as user data for input variables / as PROFINET IO controller / maximum • as user data for input variables / as PROFINET IO controller / maximum • as user data for input variables per PN IO device / as PROFINET IO controller / maximum • as user data for output variables per PN IO device / as PROFINET IO controller / maximum • as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum • as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum	4 Kibyte 4 Kibyte 1433 byte 1433 byte 240 byte 240 byte

Performance data / telecontrol

Protocol / is supported	
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• TCP/IP	Yes
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 / Diagnosis

Product function / Web-based diagnostics	Yes
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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

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• 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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