

Spare part SIPLUS NET CP 443-1 Advanced for medial exposure with conformal coating based on 6GK7443-1GX20-0XE0



Transmission rate

Transfer rate

- at the 1st interface 10 ... 1000 Mbit/s
- at the 2nd interface 10 ... 100 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet 5

Number of electrical connections

- at the 1st interface / acc. to Industrial Ethernet 1
- at the 2nd interface / acc. to Industrial Ethernet 4

Type of electrical connection

- at the 1st 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 DC

Supply voltage / 1 / from backplane bus 5 V

Supply voltage 5 V

Relative symmetrical tolerance / at DC

<ul style="list-style-type: none"> • at 5 V 	5 %
Consumed current	
<ul style="list-style-type: none"> • from backplane bus / at DC / at 5 V / typical 	1.8 A
Power loss [W]	7.25 W

Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operation 	0 ... 60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
Ambient condition / relating to ambient temperature - air pressure - installation altitude	0 ... +60°C at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // 0 ... +50°C at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // 0 ... +40°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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • per CPU / maximum 	14

Performance data / S7 communication	
Number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • maximum 	128
<ul style="list-style-type: none"> • with PG connections / maximum 	2
<ul style="list-style-type: none"> • with OP connections / maximum 	30

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	128
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Performance data / IT functions

Number of possible connections	
<ul style="list-style-type: none"> • as client / by means of FTP / maximum • as server / by means of FTP / maximum 	20 10
Number of possible connections	
<ul style="list-style-type: none"> • as server / by means of HTTP / maximum • as e-mail client / maximum 	4 1
Amount of data / as user data for email / maximum	8 Kibyte
Storage capacity / of the user memory	
<ul style="list-style-type: none"> • as RAM • additionally buffered as RAM via central backup battery 	16 Miabyte 512 Kibyte
Number of possible write cycles / of the flash memory cells	100000

Performance data / PROFINET communication / as PN IO-Controller

Number of external PN IO lines / with PROFINET / per rack	4
Amount of data	
<ul style="list-style-type: none"> • 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 	4 Kibyte 4 Kibyte 240 byte 240 byte

Performance data / PROFINET CBA

Number of remote connection partners / with PROFINET CBA	64
Number of connections / with PROFINET CBA / total	600
Amount of data	
<ul style="list-style-type: none"> • as user data for digital inputs / with PROFINET CBA / maximum • as user data for digital outputs / with PROFINET CBA / maximum • as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum • as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum 	8 Kibyte 8 Kibyte 8 Kibyte 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 connection / with acyclic transmission

Refresh 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
Amount of data	
<ul style="list-style-type: none"> • as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA 	8 Kibyte
<ul style="list-style-type: none"> • 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 connection / with cyclic transmission

Refresh time / of the remote interconnections / with PROFINET CBA / with cyclical transfer	10 ms
Number of remote connections to input variables / with PROFINET CBA / with cyclical transfer / maximum	250
Number of remote connections to output variables / with PROFINET CBA / with cyclical transfer / maximum	250
Amount of data	
<ul style="list-style-type: none"> • as user data for remote interconnections with input variables / with PROFINET CBA / with cyclical transfer / maximum 	2000 byte
<ul style="list-style-type: none"> • 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
Refresh 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
Amount of data / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte

Performance data / PROFINET CBA / device-internal connections

Number of internal connections / with PROFINET CBA / maximum	300
Amount of data / of the internal connections / with PROFINET CBA / maximum	2400 byte

Performance data / PROFINET CBA / connections to constants

Number of connections with constants / with PROFINET CBA / maximum	500
Amount of data / as user data for interconnections with constants / with PROFINET CBA / maximum	4000 byte

Performance data / PROFINET CBA / PROFIBUS proxy functionality

Product function / with PROFINET CBA / PROFIBUS proxy functionality	No
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Performance data / telecontrol

Protocol / is supported	
<ul style="list-style-type: none"> • TCP/IP 	Yes
Product function / MIB support	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SNMP v1 • DCP • LLDP 	Yes Yes Yes
Configuration software	
<ul style="list-style-type: none"> • required • for PROFINET CBA / required 	STEP 7 V5.4 SP4 or higher SIMATIC iMap V3.0 SP1 and higher

Product functions / switch

Product feature / Switch	Yes
Product function	
<ul style="list-style-type: none"> • with IRT / PROFINET IO switch • Configuration with STEP 7 	Yes Yes

Product functions / Redundancy

Product function	
<ul style="list-style-type: none"> • Ring redundancy • Redundancy manager 	Yes Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes

Product functions / Security

Product function	
<ul style="list-style-type: none"> • ACL - IP-based • ACL - IP-based for PLC/routing • switch-off of non-required services 	Yes Yes Yes

Product functions / Time

Product function / SICLOCK support	Yes
Protocol / is supported	
• NTP	Yes

Accessories

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: Information and Download Center <http://www.siemens.com/automation/net/catalog>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>

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