

product type designation

SIPLUS NET CP 443-1

SIPLUS NET CP 443-1 for medial exposure with conformal coating based on 6GK7443-1EX30-0XE0. "2x 10/100 Mbit/s (IE switch);" "RJ45 ports; ""ISO; TCP; UDP;" "PROFINET IO CON ""TROLLER; S7" "communication;"" open" communication (SEND/RE- "CEIVE); S7 routing; IP" configu- ration via "DHCP/block;""via ""IP Access" "Control List; Clock-"" ""Time" "synchronization; extended ""Web" "diagnostics; fast start up ;"" Support for PROFINergy



Figure similar

transfer rate	
transfer rate	
<ul style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	2
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	2
type of electrical connection	
<ul style="list-style-type: none"> 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	
<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 	1.4 A
power loss [W]	8.6 W
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
installation altitude / at height above sea level / maximum	5000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
relative humidity	
<ul style="list-style-type: none"> • with condensation / acc. to IEC 60068-2-38 / maximum 	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
resistance to biologically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
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 in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes
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.
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / acc. to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / acc. to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes; Conformal coating, class A
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	14
<ul style="list-style-type: none"> per CPU / maximum 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
amount of data	
<ul style="list-style-type: none"> 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 as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
	8 Kibyte
	8 Kibyte
	2 Kibyte
number of possible connections / for open communication	
<ul style="list-style-type: none"> by means of T blocks / maximum 	64
amount of data	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> maximum with PG connections / maximum 	128; when using several CPUs
	2

performance data / multi-protocol mode

number of active connections / with multi-protocol mode	128
---	-----

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	
<ul style="list-style-type: none"> as user data for input variables / as PROFINET IO controller / maximum 	4 Kibyte
<ul style="list-style-type: none"> as user data for input variables / as PROFINET IO controller / maximum 	4 Kibyte
<ul style="list-style-type: none"> as user data for input variables per PN IO device / as PROFINET IO controller / maximum 	1433 byte
<ul style="list-style-type: none"> as user data for output variables per PN IO device / as PROFINET IO controller / maximum 	1433 byte
<ul style="list-style-type: none"> as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum 	240 byte
<ul style="list-style-type: none"> as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum 	240 byte

performance data / telecontrol

protocol / is supported	
<ul style="list-style-type: none"> TCP/IP 	Yes

product functions / management, configuration, engineering

product function / MIB support	Yes
protocol / is supported	
<ul style="list-style-type: none"> SNMP v1 	Yes
<ul style="list-style-type: none"> DCP 	Yes
<ul style="list-style-type: none"> LLDP 	Yes
configuration software	
<ul style="list-style-type: none"> required 	STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA Portal) or higher

product functions / diagnostics

product function / web-based diagnostics	Yes
--	-----

product functions / switch

product feature / switch	Yes
product function	
<ul style="list-style-type: none"> switch-managed 	No
<ul style="list-style-type: none"> with IRT / PROFINET IO switch 	Yes
<ul style="list-style-type: none"> configuration with STEP 7 	Yes

product functions / redundancy

product function	
<ul style="list-style-type: none"> ring redundancy 	Yes

• redundancy manager	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes

further information / internet-Links

Internet-Link	
• to website: Selector TIA 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

security information	<p>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)</p>
----------------------	---

last modified: 10/05/2020