

### product type designation



Figure similar

### CP 443-1

SIPLUS NET CP 443-1 based on 6GK7443-1EX30-0XE0 with conformal coating, 0...+60 °C, 2x 10/100 Mbps (IE switch); RJ 45 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 start up; support for PROFinenergy

product brand name	SIPLUS
Technical Product Detail Page	<a href="https://l.siemens.com/1P6AG1443-1EX30-4XE0">https://l.siemens.com/1P6AG1443-1EX30-4XE0</a>
<b>transfer rate</b>	
transfer rate	
<ul style="list-style-type: none"> <li>at the 1st interface</li> </ul>	10 ... 100 Mbit/s
<b>interfaces</b>	
number of interfaces / according to Industrial Ethernet	2
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	2
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	RJ45 port
design of the removable storage	
<ul style="list-style-type: none"> <li>C-PLUG</li> </ul>	No
<b>supply voltage, current consumption, power loss</b>	
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"> <li>at 5 V</li> </ul>	5 %
consumed current	
<ul style="list-style-type: none"> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	1.4 A
power loss [W]	7.25 W
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	0 ... 60 °C -40 ... +70 °C -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"> <li>with condensation / according to IEC 60068-2-38 / maximum</li> </ul>	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"> <li>conformity according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request

<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> </ul>	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"> <li>conformity according to EN 60721-3-6</li> </ul>	Yes
resistance to mechanically active substances <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> </ul>	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"> <li>conformity according to EN 60721-3-6</li> </ul>	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 / according 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 / according 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 according to IPC-CC-830A	Yes; Conformal coating, class A
protection class IP	IP20
<b>design, dimensions and weights</b>	
module format	Compact module S7-400 single width
width	25 mm
height	290 mm
depth	210 mm
net weight	0.7 kg
product feature / conformal coating	Yes
<b>product features, product functions, product components / general</b>	
number of units <ul style="list-style-type: none"> <li>per CPU / maximum</li> <li>note</li> </ul>	14 max. 4 as PN IO ctrl.
<b>performance data / open communication</b>	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	64
data volume <ul style="list-style-type: none"> <li>as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> <li>as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> <li>as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> <li>as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte 8 Kibyte 8 Kibyte 2 Kibyte
number of possible connections / for open communication <ul style="list-style-type: none"> <li>by means of T blocks / maximum</li> </ul>	64
data volume <ul style="list-style-type: none"> <li>as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum</li> </ul>	1452 byte
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication <ul style="list-style-type: none"> <li>maximum</li> <li>with PG connections / maximum</li> </ul>	128; when using several CPUs 2
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	128
<b>performance data / PROFINET communication / as PN IO controller</b>	
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	
<ul style="list-style-type: none"> <li>as user data for input variables / as PROFINET IO controller / maximum</li> </ul>	4 Kibyte
<ul style="list-style-type: none"> <li>as user data for output variables / as PROFINET IO controller / maximum</li> </ul>	4 Kibyte
<ul style="list-style-type: none"> <li>as user data for input variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul style="list-style-type: none"> <li>as user data for output variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul style="list-style-type: none"> <li>as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
<b>product functions / management, configuration, engineering</b>	
product function / MIB support	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>LLDP</li> </ul>	Yes
configuration software	
<ul style="list-style-type: none"> <li>required</li> </ul>	STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA Portal) or higher
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes
<b>product functions / switch</b>	
product feature / switch	Yes
product function	
<ul style="list-style-type: none"> <li>switch-managed</li> </ul>	No
<ul style="list-style-type: none"> <li>with IRT / PROFINET IO switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>configuration with STEP 7</li> </ul>	Yes
<b>product functions / redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>ring redundancy</li> </ul>	Yes
<ul style="list-style-type: none"> <li>redundancy manager</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
<b>product functions / security</b>	
product function	
<ul style="list-style-type: none"> <li>password protection for Web applications</li> </ul>	No
<ul style="list-style-type: none"> <li>ACL - IP-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>ACL - IP-based for PLC/routing</li> </ul>	No
<ul style="list-style-type: none"> <li>switch-off of non-required services</li> </ul>	Yes
<ul style="list-style-type: none"> <li>blocking of communication via physical ports</li> </ul>	Yes
<ul style="list-style-type: none"> <li>log file for unauthorized access</li> </ul>	No
<b>product functions / time</b>	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SIMATIC time synchronization (SIMATIC Time)</li> </ul>	Yes
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAX-Download-Manager</li> </ul>	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	

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**General Product Approval**



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**General Product Approval**

**EMV**

**For use in hazardous locations**



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