

product type designation



Figure similar

### CP 443-5 Extended

SIPLUS NET CP 443-5 based on 6GK7443-5DX05-0XE0 with conformal coating, 0...+60 °C, communications processor extended for connection of SIMATIC S7-400 on PROFIBUS, DP, S5-compatible PG/OP and S7 communication

product brand name	SIPLUS
Technical Product Detail Page	<a href="https://l.siemens.com/1P6AG1443-5DX05-4XE0">https://l.siemens.com/1P6AG1443-5DX05-4XE0</a>
<b>transfer rate</b>	
transfer rate	
<ul style="list-style-type: none"> <li>at the 1st interface / according to PROFIBUS</li> </ul>	9.6 kbit/s ... 12 Mbit/s
<b>interfaces</b>	
number of interfaces / according to Industrial Ethernet	0
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / according to PROFIBUS</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / according to PROFIBUS</li> </ul>	9-pin Sub-D socket (RS485)
<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>	0.6 A
power loss [W]	3 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> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request 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	0.65 kg
<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  The number of CPs that can be operated as DP masters depends on the number of CP 443-1 Advanced processors operating in the S7-400 station as PROFINET IO controllers. Up to 10 CPs can be operated in total: up to 4 as PROFINET IO controllers (CP 443-1 Advanced); up to 10 as DP masters (CP 443-5 Extended)
<b>performance data / open communication</b>	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	32
data volume	
<ul style="list-style-type: none"> <li>as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	240 byte
<b>performance data / PROFIBUS DP</b>	
service / as DP master	
<ul style="list-style-type: none"> <li>DPV1</li> </ul>	Yes
number of DP devices	
<ul style="list-style-type: none"> <li>on DP master / operable</li> </ul>	125
data volume	
<ul style="list-style-type: none"> <li>of the address range of the inputs / as DP master / total</li> <li>of the address range of the outputs / as DP master / total</li> <li>of the address range of the inputs / per DP device</li> <li>of the address range of the outputs / per DP device</li> </ul>	4096 byte 4096 byte 244 byte 244 byte
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	48
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	
<ul style="list-style-type: none"> <li>without DP / maximum</li> <li>with DP / maximum</li> </ul>	59 54
<b>product functions / management, configuration, engineering</b>	
configuration software	
<ul style="list-style-type: none"> <li>required</li> </ul>	STEP 7 V5.4 SP4 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 / routing</b>	
number of possible connections / with data set routing / maximum	30
<b>product functions / time</b>	

product function / pass on time synchronization	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• SIMATIC time synchronization (SIMATIC Time)</li> </ul>	Yes

#### further information / internet links

##### internet link

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/109766358>  
<https://www.siemens.com/tstcloud>  
<https://www.siemens.com/simatic-net>  
<https://sieportal.siemens.com/>  
<https://www.automation.siemens.com/bilddb>  
<https://siemens.com/cax>  
<https://support.industry.siemens.com>

#### security information

##### security information

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#### Approvals / Certificates

##### General Product Approval



EG-Konf.



[Manufacturer Declaration](#)

[China RoHS](#)



[China RoHS](#)

##### General Product Approval

##### EMV

##### For use in hazardous locations



EG-Konf.



RCM

[CCC-Ex](#)



IECEX

##### For use in hazardous locations



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last modified:

3/10/2026