

product type designation

CP 443-5 Extended

Communications processor CP 443-5 Extended for connection of SIMATIC S7-400 to PROFIBUS DP, S5-compatible, PG/OP and S7 communication.



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6GK7443-5DX05-0XE0>

transfer rate

transfer rate

- at the 1st interface / according to PROFIBUS 9.6 kbit/s ... 12 Mbit/s

interfaces

number of interfaces / according to Industrial Ethernet

0

number of electrical connections

- at the 1st interface / according to PROFIBUS 1

type of electrical connection

- at the 1st interface / according to PROFIBUS 9-pin Sub-D socket (RS485)

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 0.6 A

power loss [W]

3 W

ambient conditions

ambient temperature

- during operation 0 ... 60 °C
- during storage -40 ... +70 °C
- during transport -40 ... +70 °C

relative humidity

- at 25 °C / without condensation / during operation / maximum 95 %

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

0.65 kg

product features, product functions, product components / general

number of units

- per CPU / maximum 14
- note 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)

performance data / open communication

number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	32
data volume	
<ul style="list-style-type: none"> as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	240 byte

performance data / PROFIBUS DP

service / as DP master	
<ul style="list-style-type: none"> DPV1 	Yes
number of DP devices	
<ul style="list-style-type: none"> on DP master / operable 	125
data volume	
<ul style="list-style-type: none"> of the address range of the inputs / as DP master / total 	4096 byte
<ul style="list-style-type: none"> of the address range of the outputs / as DP master / total 	4096 byte
<ul style="list-style-type: none"> of the address range of the inputs / per DP device 	244 byte
<ul style="list-style-type: none"> of the address range of the outputs / per DP device 	244 byte

performance data / S7 communication

number of possible connections / for S7 communication	
<ul style="list-style-type: none"> maximum 	48

performance data / multi-protocol mode

number of active connections / with multi-protocol mode	
<ul style="list-style-type: none"> without DP / maximum 	59
<ul style="list-style-type: none"> with DP / maximum 	54

product functions / management, configuration, engineering

configuration software	
<ul style="list-style-type: none"> required 	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

product functions / routing

number of possible connections / with data set routing / maximum	30
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product functions / time

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

standards, specifications, approvals

certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes

standards, specifications, approvals / hazardous environments / header

certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes

standards, specifications, approvals / marine classification / header

Marine classification association / American Bureau of Shipping Europe Ltd. (ABS)	Yes
Marine classification association / French marine classification society (BV)	Yes
Marine classification association / Chinese Classification Society (CCS)	Yes
Marine classification association / Det Norske Veritas (DNV)	Yes
Marine classification association / Nippon Kaiji Kyokai (NK)	Yes

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
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global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	<p>350.22 kg</p> <p>65.61 kg</p> <p>281.88999 kg</p> <p>2.72 kg</p>

further information / internet links

internet link	
<ul style="list-style-type: none"> • 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 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/simatic-net</p> <p>https://sieportal.siemens.com/</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://siemens.com/cax</p> <p>https://support.industry.siemens.com</p>

security information

security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval **For use in hazardous locations**



[China RoHS](#)



For use in hazardous locations **Maritime application**



[FM](#)

[CCC-Ex](#)



Maritime application **Environment**

[NK / Nippon Kaiji Kyokai](#)

[CCS \(China Classification Society\)](#)



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