

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	
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	
DPV1	Yes
number of DP devices	
on DP master / operable	125
data volume	
of the address range of the inputs / as DP master / total	4096 byte
of the address range of the outputs / as DP master / total	4096 byte
of the address range of the inputs / per DP device	244 byte
of the address range of the outputs / per DP device	244 byte

performance data / S7 communication

number of possible connections / for S7 communication	
maximum	48

performance data / multi-protocol mode

number of active connections / with multi-protocol mode	
without DP / maximum	59
with DP / maximum	54

product functions / management, configuration, engineering

configuration software	
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 dataset routing / maximum	30
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product functions / time

product function / pass on time synchronization	Yes
protocol / is supported	
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]	
• total	350.22 kg
• during manufacturing	65.61 kg
• during operation	281.89 kg
• after end of life	2.72 kg

further information / internet links

internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

security information

security information	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)
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)

[Manufacturer Declaration](#)

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 \(China Classification Society\)](#)



