SIEMENS

Data sheet 6GK7443-5DX05-0XE0

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://i.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

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	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
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)

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)

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last modified: 8/28/2026

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