

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

SIEMENS SIMATIC NET

6GK7443-5DX05-0XE0

CP 443-5 PROFIBUS COMMUNICATION PROCESSOR

Applicable product family: SIMATIC S7-400 communication processors

OFFICIAL SOURCE

6GK7443-5DX05-0XE0.pdf

The following pages are selected from the supplied manufacturer document and retain their original page content.

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.

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 slaves	
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 slave	244 byte
of the address range of the outputs / per DP slave	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; according to IEC 61406-1:2022
product functions / routing	
number of possible connections / with data set 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	
reference code	
according to IEC 81346-2:2019	KEC
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
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 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://www.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

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Approvals / Certificates

General Product Approval



[Declaration of Con-
formity](#)



For use in hazardous locations



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Marine / Shipping



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okai](#)

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tion Society\)](#)

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