

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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at the 1st interface / according to PROFIBUS 	1
type of electrical connection	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 5 V 	5 %
consumed current	
<ul style="list-style-type: none"> from backplane bus / at DC / at 5 V / typical 	0.6 A
power loss [W]	3 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport 	0 ... 60 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> per CPU / maximum note 	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)

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 slaves <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 • of the address range of the outputs / as DP master / total • of the address range of the inputs / per DP slave • of the address range of the outputs / per DP slave 	4096 byte 4096 byte 244 byte 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 • with DP / maximum 	59 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
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 <ul style="list-style-type: none"> • SIMATIC time synchronization (SIMATIC Time) 	Yes
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
certificate of suitability / CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq] <ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	350.22 kg 65.61 kg 281.89 kg 2.72 kg
further information / internet links	
internet link <ul style="list-style-type: none"> • to website: Image database • to website: Industry Online Support 	https://www.automation.siemens.com/bilddb 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

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Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



General Product Approval

For use in hazardous locations



[FM](#)

[CCC-Ex](#)



Marine / Shipping

Environment



[NK / Nippon Kaiji Kyokai](#)

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

[Confirmation](#)

Environment



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