

product type designation



CP 342-5

Communications processor CP 342-5 for connection of SIMATIC S7-300 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
<ul style="list-style-type: none"> for power supply 	1
type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / according to PROFIBUS 	9-pin Sub-D socket (RS485)
<ul style="list-style-type: none"> for power supply 	4-pole terminal block
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage / 1 / from backplane bus	5 V
supply voltage / external	24 V
supply voltage / external / at DC / rated value	24 V
relative positive tolerance / at DC / at 24 V	20 %
relative negative tolerance / at DC / at 24 V	15 %
consumed current	
<ul style="list-style-type: none"> from backplane bus / at DC / at 5 V / typical 	0.15 A
<ul style="list-style-type: none"> from external supply voltage / at DC / at 24 V / typical 	0.25 A
power loss [W]	6.75 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation 	0 ... 60 °C
<ul style="list-style-type: none"> during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> during transport 	-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 S7-300 single width
width	40 mm
height	125 mm
depth	120 mm
net weight	0.3 kg
product features, product functions, product components / general	
number of units	

<ul style="list-style-type: none"> per CPU / maximum 	4
performance data / open communication	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
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"> DPV0 	Yes
number of DP slaves <ul style="list-style-type: none"> on DP master / operable 	124
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 of the address range of the diagnostic data / per DP slave 	2160 byte 2160 byte 244 byte 244 byte 240 byte
service / as DP slave <ul style="list-style-type: none"> DPV0 	Yes
data volume <ul style="list-style-type: none"> of the address range of the inputs / as DP slave / total of the address range of the outputs / as DP slave / total 	240 byte 240 byte
performance data / S7 communication	
number of possible connections / for S7 communication <ul style="list-style-type: none"> maximum 	16
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 	32 28
performance data / telecontrol	
protocol / is supported <ul style="list-style-type: none"> TCP/IP 	No
product functions / management, configuration, engineering	
configuration software <ul style="list-style-type: none"> required 	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
standards, specifications, approvals	
reference code <ul style="list-style-type: none"> according to IEC 81346-2:2019 	KEC
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 	229.03 kg 17.48 kg 211.2 kg 0.35 kg
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 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://siemens.com/cax 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

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Approvals / Certificates

General Product Approval



EG-Konf.

[Declaration of Conformity](#)



CCC



UL

General Product Approval

For use in hazardous locations



RCM



ATEX



IECEX

[FM](#)

[CCC-Ex](#)



UL

Marine / Shipping

Environment



PRS

[Confirmation](#)



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