

Technical data

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 / acc. to PROFIBUS 	9.6 kbit/s ... 12 Mbit/s

interfaces

number of interfaces / acc. to Industrial Ethernet	0
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / acc. 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 / acc. 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	24 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]	5 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
fastening method	
<ul style="list-style-type: none"> S7-300 rail mounting 	Yes

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 	2160 byte
<ul style="list-style-type: none"> of the address range of the outputs / as DP master / total 	2160 byte

<ul style="list-style-type: none"> • of the address range of the inputs / per DP slave 	244 byte
<ul style="list-style-type: none"> • of the address range of the outputs / per DP slave 	244 byte
<ul style="list-style-type: none"> • of the address range of the diagnostic data / per DP slave 	240 byte
service / as DP slave	
<ul style="list-style-type: none"> • DPV0 	Yes
<ul style="list-style-type: none"> • DPV1 	No
data volume	
<ul style="list-style-type: none"> • of the address range of the inputs / as DP slave / total 	240 byte
<ul style="list-style-type: none"> • of the address range of the outputs / as DP slave / total 	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 	32
<ul style="list-style-type: none"> • with DP / maximum 	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
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com
security information	
security information	<p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)</p>
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