



Communications processor CP 342-5 FO 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"> for power supply 	1
number of optical interfaces / at the 1st interface / acc. to PROFIBUS	2
design of the optical interface / at the 1st interface / acc. to PROFIBUS	Duplex socket
type of electrical connection	
<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]	6 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
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
wire length	
<ul style="list-style-type: none"> • for PCF FOC / maximum • for POF FOC / maximum 	300 m 50 m
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
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
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

- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

- <http://www.siemens.com/simatic-net>
- <https://mall.industry.siemens.com>
- <http://www.siemens.com/industry/infocenter>
- <http://automation.siemens.com/bilddb>
- <http://www.siemens.com/cax>
- <https://support.industry.siemens.com>

security information

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