



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	
• 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	
• 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	
• 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	
• from backplane bus / at DC / at 5 V / typical	0.15 A
• from external supply voltage / at DC / at 24 V / typical	0.25 A
power loss [W]	6 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
width	40 mm

height	125 mm
depth	120 mm
net weight	0.3 kg
fastening method	
• S7-300 rail mounting	Yes
<b>product features, product functions, product components / general</b>	
number of units	
• per CPU / maximum	4
wire length	
• for PCF FOC / maximum	300 m
• for POF FOC / maximum	50 m
<b>performance data / open communication</b>	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
data volume	
• as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum	240 byte
<b>performance data / PROFIBUS DP</b>	
service / as DP master	
• DPV0	Yes
number of DP slaves	
• on DP master / operable	124
data volume	
• of the address range of the inputs / as DP master / total	2160 byte
• of the address range of the outputs / as DP master / total	2160 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
• of the address range of the diagnostic data / per DP slave	240 byte
service / as DP slave	
• DPV0	Yes
data volume	
• of the address range of the inputs / as DP slave / total	240 byte
• of the address range of the outputs / as DP slave / total	240 byte
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
• maximum	16
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	
• without DP / maximum	32
• with DP / maximum	28
<b>performance data / telecontrol</b>	
protocol / is supported	
• TCP/IP	No
<b>product functions / management, configuration, engineering</b>	
configuration software	
• required	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
<b>further information / internet-Links</b>	
Internet-Link	
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>

- 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>  
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## security information

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