

product type designation

**CP 342-5 FO**

\*\*\*\*\* spare part \*\*\*\*\* communications processor CP 342-5 FO for connection of SIMATIC S7-300 to PROFIBUS DP, S5-compatible, PG/OP and S7 communication.



product brand name

SIMATIC NET

### transfer rate

transfer rate

- 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

- for power supply

1

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
- during storage
- during transport

0 ... 60 °C

-40 ... +70 °C

-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

<ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	Yes
<b>product features, product functions, product components / general</b>	
number of units	
<ul style="list-style-type: none"> <li>• per CPU / maximum</li> </ul>	4
wire length	
<ul style="list-style-type: none"> <li>• for PCF FOC / maximum</li> </ul>	300 m
<ul style="list-style-type: none"> <li>• for POF FOC / maximum</li> </ul>	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	
<ul style="list-style-type: none"> <li>• as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	240 byte
<b>performance data / PROFIBUS DP</b>	
service / as DP master	
<ul style="list-style-type: none"> <li>• DPV0</li> </ul>	Yes
number of DP devices	
<ul style="list-style-type: none"> <li>• on DP master / operable</li> </ul>	124
data volume	
<ul style="list-style-type: none"> <li>• of the address range of the inputs / as DP master / total</li> </ul>	2160 byte
<ul style="list-style-type: none"> <li>• of the address range of the outputs / as DP master / total</li> </ul>	2160 byte
<ul style="list-style-type: none"> <li>• of the address range of the inputs / per DP device</li> </ul>	244 byte
<ul style="list-style-type: none"> <li>• of the address range of the outputs / per DP device</li> </ul>	244 byte
<ul style="list-style-type: none"> <li>• of the address range of the diagnostic data / per DP device</li> </ul>	240 byte
service / as DP device	
<ul style="list-style-type: none"> <li>• DPV0</li> </ul>	Yes
data volume	
<ul style="list-style-type: none"> <li>• of the address range of the inputs / as DP device / total</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>• of the address range of the outputs / as DP device / total</li> </ul>	240 byte
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	16
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	
<ul style="list-style-type: none"> <li>• without DP / maximum</li> </ul>	32
<ul style="list-style-type: none"> <li>• with DP / maximum</li> </ul>	28
<b>performance data / telecontrol</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	No
<b>product functions / management, configuration, engineering</b>	
configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher
<b>standards, specifications, approvals / hazardous environments / header</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx-Download-Manager</li> </ul>	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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

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## Approvals / Certificates

### General Product Approval



[Declaration of Con-  
formity](#)



[China RoHS](#)

### General Product Approval

### For use in hazardous locations



[CCC-Ex](#)



### Maritime application



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