

product type designation

**CP 342-5**

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



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6GK7342-5DA03-0XE0>

### 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

- at the 1st interface / according to PROFIBUS
- for power supply

1

1

type of electrical connection

- at the 1st interface / according to PROFIBUS
- for power supply

9-pin Sub-D socket (RS485)

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

- from backplane bus / at DC / at 5 V / typical
- from external supply voltage / at DC / at 24 V / typical

0.15 A

0.25 A

power loss [W]

6.75 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 S7-300 single width

width

40 mm

height

125 mm

depth

120 mm

net weight	0.3 kg
<b>product features, product functions, product components / general</b>	
number of units	
• per CPU / maximum	4
<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 devices	
• 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 device	244 byte
• of the address range of the outputs / per DP device	244 byte
• of the address range of the diagnostic data / per DP device	240 byte
service / as DP device	
• DPV0	Yes
data volume	
• of the address range of the inputs / as DP device / total	240 byte
• of the address range of the outputs / as DP device / 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
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>standards, specifications, approvals</b>	
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / EAC approval	Yes
<b>standards, specifications, approvals / hazardous environments / header</b>	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / ULhazloc approval	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	229.03 kg
• during manufacturing	17.48 kg
• during operation	211.19999 kg

- after end of life

0.35 kg

**further information / internet links**

internet link

- 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

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**Approvals / Certificates**

**General Product Approval**



[Declaration of Conformity](#)



[China RoHS](#)

**General Product Approval**

**For use in hazardous locations**



[China RoHS](#)



**For use in hazardous locations**

**Maritime application**

**Environment**



[FM](#)

[CCC-Ex](#)



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