

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
product features, product functions, product components / general	
number of units	
• 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	
• 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	
• 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
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	16
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	
• without DP / maximum	32
• with DP / maximum	28
performance data / telecontrol	
protocol / is supported	
• TCP/IP	No
product functions / management, configuration, engineering	
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
standards, specifications, approvals	
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
standards, specifications, approvals / hazardous environments / header	
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
standards, specifications, approvals / Environmental Product Declaration	
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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