

Data sheet

6GK7342-5DA03-0XE0

product type designation



CP 342-5

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

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

1

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

1

type of electrical connection

9-pin Sub-D socket (RS485)

- at the 1st interface / according to PROFIBUS

4-pole terminal block

- for power supply

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

performance data / open communication

number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum data volume	16
• 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 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

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

standards, specifications, approvals / hazardous environments

certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
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further information / internet-Links

Internet-Link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAX-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

security information

security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial
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security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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