

Product type designation

SIPLUS NET CP 342-5 PROFIBUS
SIPLUS NET CP342-5 PROFIBUS -25 ... +70 DEGREES C BASED
ON 6GK7342-5DA03-0XE0 . COMMUNICATIONPROCESSOR
CP342-5 FOR CONNECTING SIMATIC S7-300 TO PROFIBUS, DP,
S5-COMPATIBLE-, PG/OP- AND S7-COMMUNICATION



Figure similar

Transmission 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	
• at the 1st interface / acc. to PROFIBUS	1
• for power supply	1
Type of electrical connection	
• at the 1st interface / acc. to PROFIBUS	9-pin Sub-D socket (RS485)
• 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 / external	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]	6.75 W

Permitted ambient conditions

Ambient temperature	
• during operation	-25 ... +70 °C
• for horizontally arranged busbars / during operation	-25 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Relative humidity / with condensation / maximum	100 %; r.F., incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance to biologically active substances	
• conformity acc. to EN 60721-3-3	Yes; Compliance with EN 60721-3-3, Class 3B2 mold, fungus, and sponge spores (except fauna). The supplied plug covers must remain in place over the unused interfaces during operation!
Resistance to chemically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3). The supplied plug covers must remain in place over the unused interfaces during operation!
Resistance to mechanically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation!
Protection class IP	IP20

Design, dimensions and weight

Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.3 kg

Product properties, functions, 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
Amount of data	

- 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 / usable	124
Amount of data	
• of the address area of the inputs / as DP master / total	2160 byte
• of the address area of the outputs / as DP master / total	2160 byte
• of the address area of the inputs / per DP slave	244 byte
• of the address area of the outputs / per DP slave	244 byte
• of the address area of the diagnostic data / per DP slave	240 byte
Service / as DP slave	
• DPV0	Yes
Amount of data	
• of the address area of the inputs / as DP slave / total	240 byte
• of the address area 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
Configuration software	
• required	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher

Further Information / Internet Links

Internet-Link	
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- to website: Selector SIMATIC NET SELECTION TOOL
- 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/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

Security information

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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 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)

last modified:

10/26/2016