

Product type designation

SIPLUS NET CP 342-5

SIPLUS NET CP 342-5 PROFIBUS -25...+70°C based on 6GK7342-5DA03-0XE0 . Communications processor CP 342-5 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	
<ul style="list-style-type: none"> • from backplane bus / at DC / at 5 V / typical 	0.15 A
<ul style="list-style-type: none"> • from external supply voltage / at DC / at 24 V / typical 	0.25 A
Power loss [W]	6.75 W

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
<ul style="list-style-type: none"> • in horizontal mounting position / during operation 	70 ... -25 °C
<ul style="list-style-type: none"> • during storage and transport 	70 ... -40 °C
Installation altitude / at height above sea level / maximum	5000 m
Relative humidity	
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	100 %
<ul style="list-style-type: none"> • with condensation / maximum 	100 %; r.F., incl. condensation/frost permitted (no commissioning in bedewed state)
<ul style="list-style-type: none"> • with condensation / acc. to IEC 60068-2-38 / maximum 	100 %
Resistance to biologically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes
Resistance to chemically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes
Resistance to mechanically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes
Coating / for equipped printed circuit board / acc. to EN 61086	Yes
Type of coating / protection against pollution according to EN 60664-3	Yes
Type of test / of the coating / acc. to MIL-I-46058C	Yes
Product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes
Protection class IP	IP20

Design, dimensions and weight

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

Product properties, functions, components / general

Number of units	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • DPV0 	Yes
Number of DP slaves / on DP master / usable	124
Amount of data	
<ul style="list-style-type: none"> • of the address area of the inputs / as DP master / total 	2160 byte
<ul style="list-style-type: none"> • of the address area of the outputs / as DP master / total 	2160 byte
<ul style="list-style-type: none"> • of the address area of the inputs / per DP slave 	244 byte
<ul style="list-style-type: none"> • of the address area of the outputs / per DP slave 	244 byte
<ul style="list-style-type: none"> • of the address area of the diagnostic data / per DP slave 	240 byte
Service / as DP slave	
<ul style="list-style-type: none"> • DPV0 	Yes
Amount of data	
<ul style="list-style-type: none"> • of the address area of the inputs / as DP slave / total 	240 byte
<ul style="list-style-type: none"> • of the address area of the outputs / as DP slave / total 	240 byte

Performance data / S7 communication

Number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • maximum 	16

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	
<ul style="list-style-type: none"> • without DP / maximum 	32
<ul style="list-style-type: none"> • with DP / maximum 	28

Performance data / telecontrol

Protocol / is supported	
<ul style="list-style-type: none"> • TCP/IP 	No

Product functions / management, configuration

Configuration software	
<ul style="list-style-type: none"> • required 	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher

Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	http://www.siemens.com/industrial-controls/mall
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	http://support.automation.siemens.com

Security information

Security information	<p>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)</p>
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