

Data sheet

6GK7342-5DA03-0XE0

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.



Technical Product Detail Page

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

transfer rate	
transfer rate	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at the 1st interface / according to PROFIBUS 	1
<ul style="list-style-type: none"> for power supply 	1
type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / according to PROFIBUS 	9-pin Sub-D socket (RS485)
<ul style="list-style-type: none"> 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
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	
<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 	0 ... 60 °C
<ul style="list-style-type: none"> during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> during transport 	-40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> 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	
<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
data volume	
<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 devices	
<ul style="list-style-type: none"> on DP master / operable 	124
data volume	
<ul style="list-style-type: none"> of the address range of the inputs / as DP master / total 	2160 byte
<ul style="list-style-type: none"> of the address range of the outputs / as DP master / total 	2160 byte
<ul style="list-style-type: none"> of the address range of the inputs / per DP device 	244 byte
<ul style="list-style-type: none"> of the address range of the outputs / per DP device 	244 byte
<ul style="list-style-type: none"> of the address range of the diagnostic data / per DP device 	240 byte
service / as DP device	
<ul style="list-style-type: none"> DPV0 	Yes
data volume	
<ul style="list-style-type: none"> of the address range of the inputs / as DP device / total 	240 byte
<ul style="list-style-type: none"> of the address range of the outputs / as DP device / 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, engineering	
configuration software	
<ul style="list-style-type: none"> 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]	
<ul style="list-style-type: none"> total 	229.03 kg
<ul style="list-style-type: none"> during manufacturing 	17.48 kg
<ul style="list-style-type: none"> during operation 	211.2 kg
<ul style="list-style-type: none"> 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



[FM](#)

[CCC-Ex](#)

For use in hazardous locations

Maritime application

Environment



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