

### product type designation



Figure similar

### CM 1542-5

SIPLUS S7-1500 CM 1542-5 based on 6GK7542-5DX10-0XE0 with conformal coating, -40...+70 °C, start up -25 °C, communications module for connection of S7-1500 to PROFIBUS DP as DP master and DP Device: S7 and PG/OP communication, time-of-day synchronization, diagnostics

Technical Product Detail Page

<https://l.siemens.com/1P6AG1542-5DX10-7XE0>

### 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

1

type of electrical connection

- at the 1st interface / according to PROFIBUS

9-pin Sub-D socket (RS485)

### supply voltage, current consumption, power loss

type of voltage / of the supply voltage

DC

supply voltage / 1 / from backplane bus

15 V

relative symmetrical tolerance / at DC

- at 15 V

3 %

consumed current

- from backplane bus / at DC / at 15 V / typical

0.2 A

power loss [W]

3 W

### ambient conditions

ambient temperature

- for vertical installation / during operation
- for horizontally arranged busbars / during operation
- during storage
- during transport
- note

-40 ... +40 °C

-40 ... +70 °C

-40 ... +70 °C

-40 ... +70 °C

Startup @ -25 °C

installation altitude / at height above sea level / maximum

5000 m

ambient condition / relating to ambient temperature - air pressure - installation altitude

Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)

relative humidity

- with condensation / according to IEC 60068-2-38 / maximum

100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation

chemical resistance / to commercially available cooling lubricants

Yes; incl. airborne diesel and oil droplets

resistance to biologically active substances

- conformity according to EN 60721-3-3
- conformity according to EN 60721-3-6

Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request

Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)

|   |   |
|---|---|
| resistance to chemically active substances  |   |
| <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> </ul>  | Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation. |
| <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>  | Yes   |
| resistance to mechanically active substances  |   |
| <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> </ul>  | Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.   |
| <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>  | Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.   |
| coating / for equipped printed circuit board / according to EN 61086  | Yes; Class 2 for high availability  |
| type of coating / protection against pollution according to EN 60664-3  | Yes; Protection of the type 1   |
| type of test / of the coating / according to MIL-I-46058C   | Yes; Coating discoloration during service life possible   |
| product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, class A   |
| protection class IP   | IP20  |
| <b>design, dimensions and weights</b>   |   |
| module format   | Compact module S7-1500 single width   |
| width   | 35 mm   |
| height  | 142 mm  |
| depth   | 129 mm  |
| net weight  | 0.4 kg  |
| fastening method  |   |
| <ul style="list-style-type: none"> <li>S7-1500 rail mounting</li> </ul>   | Yes   |
| <b>product features, product functions, product components / general</b>  |   |
| number of units   |   |
| <ul style="list-style-type: none"> <li>per CPU / maximum</li> </ul>   | 8   |
| <ul style="list-style-type: none"> <li>note</li> </ul>  | depending on CPU type   |
| <b>performance data / open communication</b>  |   |
| number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum   | 30  |
| data volume   |   |
| <ul style="list-style-type: none"> <li>as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>          | 240 byte  |
| <b>performance data / PROFIBUS DP</b>   |   |
| service / as DP master  |   |
| <ul style="list-style-type: none"> <li>DPV1</li> </ul>  | Yes   |
| number of DP devices  |   |
| <ul style="list-style-type: none"> <li>on DP master / operable</li> </ul>   | 125   |
| data volume   |   |
| <ul style="list-style-type: none"> <li>of the address range of the inputs / as DP master / total</li> </ul>   | 8192 byte   |
| <ul style="list-style-type: none"> <li>of the address range of the outputs / as DP master / total</li> </ul>  | 8192 byte   |
| <ul style="list-style-type: none"> <li>of the address range of the inputs / per DP device</li> </ul>  | 244 byte  |
| <ul style="list-style-type: none"> <li>of the address range of the outputs / per DP device</li> </ul>   | 244 byte  |
| service / as DP device  |   |
| <ul style="list-style-type: none"> <li>DPV0</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>DPV1</li> </ul>  | Yes   |
| data volume   |   |
| <ul style="list-style-type: none"> <li>of the address range of the inputs / as DP device / total</li> </ul>   | 240 byte  |
| <ul style="list-style-type: none"> <li>of the address range of the outputs / as DP device / total</li> </ul>  | 240 byte  |
| <b>performance data / S7 communication</b>  |   |
| number of possible connections / for S7 communication   |   |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>   | 48; depending on the system upper limit   |
| <b>performance data / multi-protocol mode</b>   |   |
| number of active connections / with multi-protocol mode   | 48  |
| <b>performance data / telecontrol</b>   |   |
| protocol / is supported   |   |
| <ul style="list-style-type: none"> <li>TCP/IP</li> </ul>  | No  |

| product functions / management, configuration, engineering  |  |
|---|--|
| configuration software  |  |
| <ul style="list-style-type: none"> <li>required</li> </ul>  | STEP 7 Professional V18 (TIA Portal) or higher   |
| identification & maintenance function   |  |
| <ul style="list-style-type: none"> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M1 - higher level designation/location designation</li> </ul>  | Yes<br>Yes   |
| product functions / diagnostics   |  |
| product function / web-based diagnostics  | Yes; via S7-1500 CPU   |
| product functions / time  |  |
| product function / pass on time synchronization   | Yes  |
| standards, specifications, approvals / Environmental Product Declaration  |  |
| Environmental Product Declaration   | Yes  |
| global warming potential [CO2 eq]   |  |
| <ul style="list-style-type: none"> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul>  | 115.54 kg<br>21.26 kg<br>93.93 kg<br>0.35 kg   |
| further information / internet links  |  |
| internet link   |  |
| <ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAX-Download-Manager</li> <li>to website: Industry Online Support</li> </ul> | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a><br><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a><br><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a><br><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a><br><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a><br><a href="https://siemens.com/cax">https://siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>  |
| security information  |  |
| security information  | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7) |

**Approvals / Certificates**

**General Product Approval**

[Manufacturer Declaration](#)



[China RoHS](#)



[China RoHS](#)

**General Product Approval**

**For use in hazardous locations**

**Environment**



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