

### product type designation



Figure similar

### CM 1242-5 RAIL

SIPLUS S7-1200 CM 1242-5 T1 rail based on 6GK7242-5DX30-0XE0 with conformal coating, -25...+55 °C, OT1 with ST1/2 (+70 °C für 10 minutes), communications module CM 1242-5, for connecting S7-1200 to PROFIBUS as DP slave module

Technical Product Detail Page

<https://l.siemens.com/1P6AG2242-5DX30-1XE0>

### 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
- for power supply

1

0

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

5 V

consumed current

- from backplane bus / at DC / at 5 V / typical

0.15 A

power loss [W]

0.75 W

### ambient conditions

ambient temperature

- during operation
- during storage
- during transport
- note

-25 ... +55 °C

-40 ... +70 °C

-40 ... +70 °C

+70 °C for 10 min (OT1, ST1/ST2 according to EN 50155)

installation altitude / at height above sea level / maximum

2000 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)

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 60721-3-5

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

Yes; Class 5B2 mold and fungal spores (excluding fauna), Class 5B3 on request

resistance to chemically active substances

- conformity according to EN 60721-3-3

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

<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-5</li> </ul>	<p>interfaces during operation.</p> <p>Yes; Class 5C3 (RH &lt; 75%) including salt spray acc. to EN 60068-2-52 (Severity level 3). The supplied plug covers must remain in place over the unused interfaces during operation!</p>
<p>resistance to mechanically active substances</p> <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> <li>conformity according to EN 60721-3-5</li> </ul>	<p>Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.</p> <p>Yes; Class 5S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation!</p>
<p>coating / for equipped printed circuit board / according to EN 61086</p>	<p>Yes; Class 2 for high availability</p>
<p>type of coating / protection against pollution according to EN 60664-3</p>	<p>Yes; Protection of the type 1</p>
<p>type of coating / for electronic devices in railway applications according to EN 50155</p>	<p>Yes; Protective coating of the Class PC2 according to EN 50155:2017</p>
<p>type of test / of the coating / according to MIL-I-46058C</p>	<p>Yes; Coating discoloration during service life possible</p>
<p>product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</p>	<p>Yes; Conformal coating, class A</p>
<p>protection class IP</p>	<p>IP20</p>
<p><b>design, dimensions and weights</b></p>	
<p>module format</p>	<p>Compact module S7-1200 single width</p>
<p>width</p>	<p>30 mm</p>
<p>height</p>	<p>100 mm</p>
<p>depth</p>	<p>75 mm</p>
<p>net weight</p>	<p>0.115 kg</p>
<p>fastening method</p> <ul style="list-style-type: none"> <li>35 mm DIN-rail mounting</li> <li>S7-300 rail mounting</li> <li>wall mounting</li> </ul>	<p>Yes</p> <p>No</p> <p>Yes</p>
<p><b>product features, product functions, product components / general</b></p>	
<p>number of units</p> <ul style="list-style-type: none"> <li>per CPU / maximum</li> </ul>	<p>3</p>
<p><b>performance data / PROFIBUS DP</b></p>	
<p>service / as DP device</p> <ul style="list-style-type: none"> <li>DPV0</li> <li>DPV1</li> </ul>	<p>Yes</p> <p>Yes</p>
<p>data volume</p> <ul style="list-style-type: none"> <li>of the address range of the inputs / as DP device / total</li> <li>of the address range of the outputs / as DP device / total</li> </ul>	<p>240 byte</p> <p>240 byte</p>
<p><b>performance data / telecontrol</b></p>	
<p>protocol / is supported</p> <ul style="list-style-type: none"> <li>TCP/IP</li> </ul>	<p>No</p>
<p><b>product functions / management, configuration, engineering</b></p>	
<p>configuration software</p> <ul style="list-style-type: none"> <li>required</li> </ul>	<p>#NO_DATA</p>
<p>product function / is supported / identification link</p>	<p>Yes; acc. to IEC 61406-1:2022</p>
<p><b>product functions / position detection</b></p>	
<p>certificate of suitability / railway application in accordance with EN 50121-3-2</p>	<p>Yes; EMC for railway vehicles</p>
<p>certificate of suitability / railway application in accordance with EN 50121-4</p>	<p>Yes; EMC for signaling and telecommunications equipment</p>
<p>certificate of suitability / railway application in accordance with EN 50124-1</p>	<p>Yes; Railway applications - Overvoltage category OV2 pollution degree PD2 rated impulse voltage UNi = 0.5 kVUNm = DC 24</p>
<p>certificate of suitability / railway application in accordance with EN 50125-1</p>	<p>Yes; Railway vehicles - See ambient conditions</p>
<p>certificate of suitability / railway application in accordance with EN 50125-2</p>	<p>Yes; Fixed-electrical installations - see ambient conditions</p>
<p>certificate of suitability / railway application in accordance with EN 50125-3</p>	<p>Yes; Signal and telecommunications equipment - see Ambient conditions vibrations and shocks: Application point outside the rails (distance 1 m to 3 m from rail)</p>
<p>certificate of suitability / railway application in accordance with EN 50155</p>	<p>Yes; Railway vehicles - temperature class OT1, ST1/ST2, horizontal mounting position</p>
<p>certificate of suitability / railway application in accordance with</p>	<p>Yes; Railway vehicles - Vibrations and shocks Category 1 Class A/B</p>

EN 61373	
certificate of suitability / fire protection in accordance with EN 45545-2	Yes; Railway vehicles - for proof, see Service & Support

**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> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://siemens.com/cax">https://siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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**Approvals / Certificates**

**General Product Approval**

[Manufacturer Declaration](#)


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**General Product Approval**      **EMV**      **Railway**

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[Confirmation](#)

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