

product type designation

**OLM/G12 V4.0**

SIPLUS NET OLM/G12 V4.0 based on 6GK1503-3CB00 with conformal coating, -25...+60 °C,



Technical Product Detail Page

<https://l.siemens.com/1P6AG1503-3CB00-2AA0>

### transfer rate

transfer rate / with PROFIBUS	9.6 kbit/s ... 12 Mbit/s
transfer rate / with PROFIBUS PA	45.45 kbit/s

### interfaces

number of electrical/optical connections / for network components or terminal equipment / maximum	3
number of electrical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> <li>for measuring device</li> <li>for signaling contact</li> <li>for redundant voltage supply</li> </ul>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
type of electrical connection	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> <li>for measuring device</li> <li>for power supply</li> <li>for power supply and signaling contact</li> </ul>	<p>9-pin Sub-D socket</p> <p>2-pole terminal block</p> <p>-</p> <p>5-pole terminal block</p>
number of optical interfaces / for fiber optic cable	2
design of the optical interface / for fiber optic cable	BFOC port

### optical data

attenuation factor / of the FOC transmission link	
<ul style="list-style-type: none"> <li>for glass FOC with 50/125 µm / at 3 dB/km / maximum</li> <li>for glass FOC with 62.5/125 µm / at 3.5 dB/km / maximum</li> </ul>	<p>10 dB</p> <p>12 dB</p>
propagation delay [bit]	6.5 bit
connectable optical power relative to 1 mW	
<ul style="list-style-type: none"> <li>for glass FOC with 50/125 µm / at 3 dB/km</li> <li>for glass FOC with 62.5/125 µm / at 3.5 dB/km</li> </ul>	<p>-15 dB</p> <p>-13 dB</p>
optical sensitivity relating to 1 mW	
<ul style="list-style-type: none"> <li>for glass FOC with 50/125 µm / at 3 dB/km</li> <li>for glass FOC with 62.5/125 µm / at 3.5 dB/km</li> </ul>	<p>-28 dB</p> <p>-28 dB</p>
wavelength / of the optical interface / note	860 nm, multimode
wire length	
<ul style="list-style-type: none"> <li>for glass FOC with 50/125 µm / at 3 dB/km / maximum</li> <li>for glass FOC with 62.5/125 µm / at 3.5 dB/km / maximum</li> </ul>	<p>3 km</p> <p>3 km</p>

### signal inputs/outputs

operating voltage / of the signaling contacts / at DC / rated value	24 V
operational current / of the signaling contacts / at DC / maximum	0.1 A

supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage / at DC / rated value	24 V
supply voltage / at DC	18.8 ... 28.8 V
product component / fusing at power supply input	Yes
consumed current / at DC / at 24 V / maximum	0.2 A
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> <li>in horizontal mounting position / during operation</li> </ul>	60 ... -25 °C
<ul style="list-style-type: none"> <li>during storage and transport</li> </ul>	70 ... -40 °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	
<ul style="list-style-type: none"> <li>with condensation / according to IEC 60068-2-38 / maximum</li> </ul>	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	
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold and fungal spores (excluding fauna); class 3B3 on request
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>	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 acc. to EN 60068-2-52 (severity degree 3); *
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (Severity degree 3); *
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; *
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
environmental category / according to IEC 60721 / note	* The supplied plug covers must remain in place on the unused interfaces during operation!
coating / for equipped printed circuit board / according to EN 61086	Yes; Class 2 for high availability
type of coating	
<ul style="list-style-type: none"> <li>protection against pollution according to EN 60664-3</li> </ul>	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	IP40
design, dimensions and weights	
design	compact
width	39.5 mm
height	112 mm
depth	74.5 mm
net weight	340 g
fastening method	
<ul style="list-style-type: none"> <li>35 mm DIN-rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>wall mounting</li> </ul>	Yes
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> <li>for emitted interference</li> </ul>	EN 61000-6-4 (Class A)
<ul style="list-style-type: none"> <li>for interference immunity</li> </ul>	EN 61000-6-6
certificate of suitability	EN 61000-6-2, EN 61000-6-8
<ul style="list-style-type: none"> <li>CE marking</li> </ul>	Yes
further information / internet links	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</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>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="https://siemens.com/industrial-communication">https://siemens.com/industrial-communication</a>

- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

- <https://sieportal.siemens.com/>
- <https://www.automation.siemens.com/bilddb>
- <https://www.siemens.com/cax>
- <https://support.industry.siemens.com>

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### Approvals / Certificates

#### General Product Approval



EG-Konf.

[Manufacturer Declaration](#)



[China RoHS](#)



[China RoHS](#)

#### General Product Approval

#### EMV



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