

### product type designation



### PROFIBUS OLM/G12 V4.0

PROFIBUS OLM/G12 V4.0 Optical Link Module with 1 RS 485 and 2 glass FOC interfaces (4 BFOC sockets) for standard Distances up to 2850 m, with signaling contact and measuring output.

Technical Product Detail Page

<https://l.siemens.com/1P6GK1503-3CB00>

### 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 power supply</li> <li>for redundant voltage supply</li> </ul>	<p>1</p> <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 and signaling contact</li> </ul>	<p>9-pin Sub-D socket</p> <p>2-pole terminal block</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 <math>\mu\text{m}</math> / at 3 dB/km / maximum</li> <li>for glass FOC with 62.5/125 <math>\mu\text{m}</math> / 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 <math>\mu\text{m}</math> / at 3 dB/km</li> <li>for glass FOC with 62.5/125 <math>\mu\text{m}</math> / at 3.5 dB/km</li> </ul>	<p>-16 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 <math>\mu\text{m}</math> / at 3 dB/km</li> <li>for glass FOC with 62.5/125 <math>\mu\text{m}</math> / 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 <math>\mu\text{m}</math> / at 3 dB/km / maximum</li> <li>for glass FOC with 62.5/125 <math>\mu\text{m}</math> / 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>during operation</li> </ul>	0 ... 60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
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
product functions / redundancy	
product function / ring redundancy	Yes
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 Nr. 60950-1
<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 61000-6-2
certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none"> <li>CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>C-Tick</li> </ul>	Yes
Marine classification association	
<ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>French marine classification society (BV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Germanische Lloyd (GL)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	No
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> </ul>	165.41 kg
<ul style="list-style-type: none"> <li>during manufacturing</li> </ul>	15.09 kg
<ul style="list-style-type: none"> <li>during operation</li> </ul>	150.26 kg
<ul style="list-style-type: none"> <li>after end of life</li> </ul>	0.06 kg
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>
<ul style="list-style-type: none"> <li>to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>

- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://www.siemens.com/cax>

<https://support.industry.siemens.com>

### security information

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### Approvals / Certificates

#### General Product Approval



EG-Konf.

[Declaration of Conformity](#)



CCC



[China RoHS](#)

#### General Product Approval

EMV

For use in hazardous locations

Maritime application



UL

[Miscellaneous](#)



RCM



KEMA



ABS

#### Maritime application



BUREAU VERITAS



DNV



LRS

[NK / Nippon Kaiji Kyokai](#)



PRS



RINA

#### Environment



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