



# SIEMENS

## Data sheet

## 6GK1503-3CB00

### product type designation



### PROFIBUS OLM/G12 V4.0

PROFIBUS OLM/G12 V4.0 Optical Link Module with 1 RS485 and 2 glass FOC interfaces (4 BFOC sockets) for standard Distances up to 2850 m, with signaling contact and measuring output

### 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>	1 1 1 1 1
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>	9-pin Sub-D socket 2-pole terminal block 5-pole terminal block
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>	10 dB 12 dB
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>	-16 dB -13 dB
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>	-28 dB -28 dB
wavelength	
<ul style="list-style-type: none"> <li>for glass FOC with 50/125 <math>\mu\text{m}</math> / compatible with interface / at 3 dB/km</li> <li>for glass FOC with 62.5/125 <math>\mu\text{m}</math> / compatible with interface / at 3.5 dB/km</li> </ul>	860 nm 860 nm
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 /</li> </ul>	3 km 3 km



maximum

**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 ..... V
product component / fusing at power supply input	Yes
consumed current / at DC / at 24 V / maximum	0.2 A

**ambient conditions**

ambient temperature	
• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP40

**design, dimensions and weights**

design	compact
width	39.5 mm 112
height	mm
depth	74.5 mm 340 g
net weight	
fastening method	Yes Yes
• 35 mm top hat DIN rail mounting	
• wall mounting	

**product functions / redundancy**

product function / ring redundancy	Yes
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**standards, specifications, approvals**

standard	
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0: 2006, EN60079-15: 2005, EN60079-28: 2007, II 3 (2) G Ex nA [opis] IIC T4 KEMA 09 ATEX 0173X
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 Nr. 60950-1
• for hazardous zone / from CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
• for emitted interference	EN 61000-6-4 (Class A) EN
• for interference immunity	61000-6-2
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• CE marking	Yes Yes
• C-Tick	Yes
• CCC / for hazardous zone according to GB standard	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes Yes
• French marine classification society (BV)	Yes Yes
• Det Norske Veritas (DNV)	Yes Yes
• Germanische Lloyd (GL)	
• Lloyds Register of Shipping (LRS)	
• Nippon Kaiji Kyokai (NK)	

**further information / internet-Links**

Internet-Link	
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Industry Mall	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Information and Download Center	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: Image database	



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- to website: Industry Online Support

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#### security information

security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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