

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"> for network components or terminal equipment for measuring device for signaling contact for power supply for redundant voltage supply 	<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"> for network components or terminal equipment for measuring device for power supply and signaling contact 	<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"> for glass FOC with 50/125 μm / at 3 dB/km / maximum for glass FOC with 62.5/125 μm / at 3.5 dB/km / maximum 	<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"> for glass FOC with 50/125 μm / at 3 dB/km for glass FOC with 62.5/125 μm / at 3.5 dB/km 	<p>-16 dB</p> <p>-13 dB</p>
optical sensitivity relating to 1 mW	
<ul style="list-style-type: none"> for glass FOC with 50/125 μm / at 3 dB/km for glass FOC with 62.5/125 μm / at 3.5 dB/km 	<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"> for glass FOC with 50/125 μm / at 3 dB/km / maximum for glass FOC with 62.5/125 μm / at 3.5 dB/km / maximum 	<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"> during operation 	0 ... 60 °C
<ul style="list-style-type: none"> during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> during transport 	-40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> at 25 °C / without condensation / during operation / maximum 	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"> 35 mm DIN-rail mounting 	Yes
<ul style="list-style-type: none"> wall mounting 	Yes
product functions / redundancy	
product function / ring redundancy	Yes
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> for safety / from CSA and UL 	UL 60950-1, CSA C22.2 Nr. 60950-1
<ul style="list-style-type: none"> for emitted interference 	EN 61000-6-4 (Class A)
<ul style="list-style-type: none"> for interference immunity 	EN 61000-6-2
certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none"> CE marking 	Yes
<ul style="list-style-type: none"> C-Tick 	Yes
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) 	Yes
<ul style="list-style-type: none"> French marine classification society (BV) 	Yes
<ul style="list-style-type: none"> Det Norske Veritas (DNV) 	Yes
<ul style="list-style-type: none"> Germanische Lloyd (GL) 	Yes
<ul style="list-style-type: none"> Lloyds Register of Shipping (LRS) 	Yes
<ul style="list-style-type: none"> Nippon Kaiji Kyokai (NK) 	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"> total 	165.41 kg
<ul style="list-style-type: none"> during manufacturing 	15.09 kg
<ul style="list-style-type: none"> during operation 	150.26 kg
<ul style="list-style-type: none"> after end of life 	0.06 kg
further information / internet links	
internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> to website: Industrial communication 	https://siemens.com/industrial-communication
<ul style="list-style-type: none"> to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> to website: Image database 	https://www.automation.siemens.com/bilddb

- 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 Con-
formity](#)



CCC



[China RoHS](#)

General Product Approval

EMV

For use in hazard-
ous locations

Maritime application



UL

[Miscellaneous](#)



RCM

[KC](#)



KEMA



ABS

Maritime application



BUREAU
VERITAS



DNV



LRS

[NK / Nippon Kaiji Ky-
okai](#)



PRS



RINA

Environment



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