

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.

product brand name

SIMATIC NET

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

- for network components or terminal equipment
- for measuring device
- for signaling contact
- for power supply
- for redundant voltage supply

1
1
1
1
1

type of electrical connection

- for network components or terminal equipment
- for measuring device
- for power supply and signaling contact

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

- 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

10 dB
12 dB

propagation delay [bit]

6.5 bit

connectable optical power relative to 1 mW

- for glass FOC with 50/125 µm / at 3 dB/km
- for glass FOC with 62.5/125 µm / at 3.5 dB/km

-16 dB
-13 dB

optical sensitivity relating to 1 mW

- for glass FOC with 50/125 µm / at 3 dB/km
- for glass FOC with 62.5/125 µm / at 3.5 dB/km

-28 dB
-28 dB

wavelength / of the optical interface / note

860 nm, multimode

wire length

- 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

3 km
3 km

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	
• 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
height	112 mm
depth	74.5 mm
net weight	340 g
fastening method	
• 35 mm DIN-rail mounting	Yes
• wall mounting	Yes
product functions / redundancy	
product function / ring redundancy	Yes
standards, specifications, approvals	
standard	
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 Nr. 60950-1
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• CE marking	Yes
• C-Tick	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• French marine classification society (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• 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]	
• total	165.41 kg
• during manufacturing	15.09 kg
• during operation	150.25999 kg
• after end of life	0.06 kg
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://siemens.com/industrial-communication
• to web page: SiePortal	https://sieportal.siemens.com/

- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

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

security information

security information

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Approvals / Certificates

General Product Approval



EG-Konf.

[Declaration of Conformity](#)



CCC



[China RoHS](#)

General Product Approval

[Manufacturer Declaration](#)



UL

[Miscellaneous](#)



RCM



EG-Konf.



General Product Approval

EMV

For use in hazardous locations

Maritime application

[China RoHS](#)



KEMA



ABS



BUREAU VERITAS



DNV

Maritime application

Environment



LRS

[NK / Nippon Kaiji Kyokai](#)



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