

### product type designation



### PROFIBUS OLM/G12-EEC V4.0

PROFIBUS OLM/G12-EEC V4.0 optical link module with 1 RS 485 and 2 glass fiber optic cable interfaces (4 BFOC sockets) for extended temperature range - 20...+60 °C.

### product brand name

SIMATIC NET

### Technical Product Detail Page

<https://l.siemens.com/1P6GK1503-3CD00>

### 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                                                                                                                                   |
| <b>supply voltage, current consumption, power loss</b>                          |                                                                                                                                         |
| 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                                                                                                                                   |
| <b>ambient conditions</b>                                                       |                                                                                                                                         |
| ambient temperature                                                             |                                                                                                                                         |
| • during operation                                                              | -20 ... +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                                                                                                                                    |
| <b>design, dimensions and weights</b>                                           |                                                                                                                                         |
| 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                                                                                                                                     |
| <b>product functions / redundancy</b>                                           |                                                                                                                                         |
| product function / ring redundancy                                              | Yes                                                                                                                                     |
| <b>standards, specifications, approvals</b>                                     |                                                                                                                                         |
| 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                                                                                                           |
| <b>standards, specifications, approvals / hazardous environments</b>            |                                                                                                                                         |
| certificate of suitability / CCC / for hazardous zone according to GB standard  | No                                                                                                                                      |
| <b>standards, specifications, approvals / Environmental Product Declaration</b> |                                                                                                                                         |
| 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                                                                                                                                 |
| <b>further information / internet links</b>                                     |                                                                                                                                         |
| internet link                                                                   |                                                                                                                                         |
| • to website: Selection guide for cables and connectors                         | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> |
| • to web page: selection aid TIA Selection Tool                                 | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>                                                         |
| • to website: Industrial communication                                          | <a href="https://siemens.com/industrial-communication">https://siemens.com/industrial-communication</a>                                 |
| • to web page: SiePortal                                                        | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>                                                             |

- 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

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit [www.siemens.com/cybersecurity-industry](http://www.siemens.com/cybersecurity-industry). Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

## Approvals / Certificates

### General Product Approval



[Declaration of Con-  
formity](#)



[China RoHS](#)

### General Product Approval

[Manufacturer Declara-  
tion](#)



[Miscellaneous](#)



### General Product Ap- proval

EMV

For use in hazard-  
ous locations

Maritime application

[China RoHS](#)



### Maritime application

### Environment



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



last modified:

5/9/2026