SIEMENS

## Data sheet 6GK1503-3CB01

| | |
|---|---|
| **product type designation** | **PROFIBUS OLM/G12 EX V4.0** |
| | PROFIBUS OLM/G12 EX V4.0 optical link module with 1 RS485 and 2 glass fiber-optic cable 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://i.siemens.com/1P6GK1503-3CB01 |
| **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 | 1 |
| ● for measuring device | 1 |
| ● for signaling contact | 1 |
| ● for power supply | 1 |
| ● for redundant voltage supply | 1 |
| type of electrical connection | |
| ● for network components or terminal equipment | 9-pin Sub-D socket |
| ● for measuring device | 2-pole terminal block |
| ● for power supply and signaling contact | 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 | 10 dB |
| ● for glass FOC with 62.5/125 µm / at 3.5 dB/km / maximum | 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 | -16 dB |
| ● for glass FOC with 62.5/125 µm / at 3.5 dB/km | -13 dB |
| optical sensitivity relating to 1 mW | |
| ● for glass FOC with 50/125 µm / at 3 dB/km | -28 dB |
| ● for glass FOC with 62.5/125 µm / at 3.5 dB/km | -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 | 3 km |
| ● for glass FOC with 62.5/125 µm / at 3.5 dB/km / maximum | 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 | |


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|---|---|
| ● 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 | 0.34 kg |
| 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 |
| standard / for hazardous zone | EX ec nC IIC T4 Gc |
| standard / for hazardous zone / from CSA and UL | Class I Division 2 (UL/FM Haz Loc) |
| 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 | Yes |
| **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 | 150.26 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 | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://www.siemens.com/cax |
| ● to website: Industry Online Support | 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, |


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## Approvals / Certificates

### General Product Approval

UL

EG-Konf.

UKCA

China RoHS

### For use in hazardous locations

ATEX

IECEx

### For use in hazardous locations

FM

UL

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