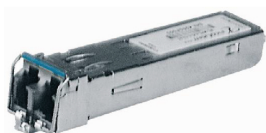


## Product: [SFP-GIG-LX/LC-EEC](#)



## SFP Fiberoptic Gigabit Ethernet Transceiver SM, extended temperature range

### Product Description

SFP Fiberoptic Gigabit Ethernet Transceiver SM with LC connector, extended temperature range

### Technical Specifications

#### Product description

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Type:                   | SFP-GIG-LX/LC-EEC                                                          |
| Description:            | SFP Fiberoptic Gigabit Ethernet Transceiver SM, extended temperature range |
| Part Number:            | 942196002                                                                  |
| Port type and quantity: | 1 x 1000 Mbit/s with LC connector                                          |

#### Network size - length of cable

|                                   |                                                                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Single mode fiber (SM) 9/125 µm:  | 0 - 20 km (Link Budget at 1310 nm = 0 - 10.5 dB; A = 0.4 dB/km; D = 3.5 ps/(nm*km))                                                                                                               |
| Multimode fiber (MM) 50/125 µm:   | 0 - 550 m (Link Budget at 1310 nm = 0 - 10.5 dB; A = 1 dB/km; BLP = 800 MHz*km) With f/o adapter in line with IEEE 802.3 clause 38 (single-mode fiber offset-launch mode conditioning patch cord) |
| Multimode fiber (MM) 62.5/125 µm: | 0 - 550 m (Link Budget at 1310 nm = 0 - 10.5 dB; A = 1 dB/km; BLP = 500 MHz*km) With f/o adapter in line with IEEE 802.3 clause 38 (single-mode fiber offset-launch mode conditioning patch cord) |

#### Power requirements

|                    |                             |
|--------------------|-----------------------------|
| Operating Voltage: | power supply via the switch |
| Power consumption: | 1 W                         |

#### Software

|              |                                                         |
|--------------|---------------------------------------------------------|
| Diagnostics: | Optical input and output power, transceiver temperature |
|--------------|---------------------------------------------------------|

#### Ambient conditions

|                                     |            |
|-------------------------------------|------------|
| Operating temperature:              | -40-+85 °C |
| Storage/transport temperature:      | -40-+85 °C |
| Relative humidity (non-condensing): | 5-95 %     |

#### Mechanical construction

|                     |                            |
|---------------------|----------------------------|
| Dimensions (WxHxD): | 13.4 mm x 8.5 mm x 56.5 mm |
| Weight:             | 42 g                       |
| Mounting:           | SFP slot                   |
| Protection class:   | IP20                       |

#### Mechanical stability

|                          |                                                                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| IEC 60068-2-6 vibration: | 1 mm, 2 Hz-13.2 Hz, 90 min.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min |
| IEC 60068-2-27 shock:    | 15 g, 11 ms duration, 18 shocks                                                                                                                     |

#### EMC interference immunity

|                                             |                                            |
|---------------------------------------------|--------------------------------------------|
| EN 61000-4-2 electrostatic discharge (ESD): | 6 kV contact discharge, 8 kV air discharge |
| EN 61000-4-3 electromagnetic field:         | 10 V/m (80-1000 MHz)                       |

|                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| EN 61000-4-4 fast transients (burst): | 2 kV power line, 1 kV data line                                 |
| EN 61000-4-5 surge voltage:           | power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line |
| EN 61000-4-6 Conducted Immunity:      | 3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)                     |

EMC emitted immunity

|                    |                            |
|--------------------|----------------------------|
| EN 55022:          | EN 55022 Class A           |
| FCC CFR47 Part 15: | FCC 47CFR Part 15, Class A |

Approvals

|                                             |         |
|---------------------------------------------|---------|
| Safety of information technology equipment: | EN60950 |
|---------------------------------------------|---------|

Reliability

|            |                                                                             |
|------------|-----------------------------------------------------------------------------|
| Guarantee: | 24 months (please refer to the terms of guarantee for detailed information) |
|------------|-----------------------------------------------------------------------------|

Scope of delivery and accessories

|                    |            |
|--------------------|------------|
| Scope of delivery: | SFP module |
|--------------------|------------|

Further Instructions

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| Product Documentation: | <a href="https://www.doc.hirschmann.com">https://www.doc.hirschmann.com</a>                                     |
| Certificates:          | <a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a> |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.98 Revision Date: 04-17-2024 |
|----------------------|-------------------------------------------------|

Variants

| Item #    | Type              |
|-----------|-------------------|
| 942196002 | SFP-GIG-LX/LC-EEC |

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