HIRSCHMANN
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# Product: M-SFP-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: | M-SFP-LX+/LC EEC, SFP Transceiver |
| Description: | SFP Fiberoptic Gigabit Ethernet Transceiver SM, extended temperature range. |
| Part Number: | 942024001 |
| Port Type and Quantity: | 1 x 1000 Mbit/s with LC connector |

### Network size - length of cable

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|---|---|
| Single mode fiber (SM) 9/125 µm: | 14 - 42 km (Link Budget at 1310 nm = 5 - 20 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km)) |

### Power requirements

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

### Software

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

### Ambient conditions

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|---|---|
| MTBF (Telcordia SR-332 Issue 3) @ 25°C: | 856 Years |
| Operating temperature: | -40-+85 °C |
| Minimum Storage Temperature: | -40-+85 °C |
| Relative humidity (non-condensing): | 5-95 % |

### Mechanical construction

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|---|---|
| Dimensions (WxHxD): | 13.4 mm x 8.5 mm x 56.5 mm |
| Weight: | 60 g |
| Mount Type: | SFP slot |
| IP Protection Rating: | IP20 |

### Mechanical stability

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|---|---|
| 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

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|---|---|
| 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 |
| Laser Protection: | class 1 according to IEC60825-1 |
| Hazardous locations: | depending on deployed switch |
| Shipbuilding: | depending on deployed switch |

## Reliability

| | |
|---|---|
| Guarantee: | 24 months (please refer to the &lta href="https://assets.belden.com/m/1424ddb7a3280e7a/original/Hirschmann-Automation-and-Control-GmbH-Terms-of-Guarantee.pdf"terms of guarantee &lt/a for detailed information) |

## Scope of delivery and accessories

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

## Further Instructions

| | |
|---|---|
| Product Documentation: | https://www.doc.hirschmann.com |
| Certificates: | https://www.doc.hirschmann.com/certificates.html |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.130 Revision Date: 07-15-2026 |

**Variants**

| Item # | Type |
|---|---|
| 942024001 | M-SFP-LX+/LC EEC, SFP Transceiver |

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