

Product: [M-SFP-BIDI-Bundle LX/LC EEC](#) 



SFP Fiberoptic bi-directional Gigabit Ethernet Transceiver SM, bundle = 1 x type A and 1 x type B, extended temperature range

Product Description

SFP Fiberoptic bi-directional Gigabit Ethernet Transceiver SM with LC connector, bundle = 1 x type A and 1 x type B, extended temperature range

Technical Specifications

Product description

| | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Type: | M-SFP-BIDI-Bundle LX/LC EEC |
| Description: | SFP Fiberoptic bi-directional Gigabit Ethernet Transceiver SM, bundle = 1 x type A and 1 x type B, extended temperature range |
| Part Number: | 943974101 |
| 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: | 0 - 20 km Type A: (Wave Length = TX: 1310 nm, RX: 1550 nm; Link Budget = 0 - 11 dB; A = 0.4 dB/km; D = 3.5 ps/(nm*km)) Type B: (Wave Length = TX: 1550 nm, RX: 1310 nm; Link Budget = 0 - 11 dB; A = 0.25 dB/km; D = 19 ps/(nm*km)) |
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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 |
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Ambient conditions

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|------------------------------------------|------------|
| MTBF (Telecordia SR-332 Issue 3) @ 25°C: | 1142 Years |
| Operating temperature: | -40+85 °C |
| Storage/transport 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: | 70 g |
| Mounting: | SFP slot |
| Protection class: | 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

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

Approvals

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|---------------------------------------------|------------------------------|
| Safety of information technology equipment: | EN60950 |
| Hazardous locations: | depending on deployed switch |
| Shipbuilding: | depending on deployed switch |

Reliability

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

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| Scope of delivery: | SFP module |
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Further Instructions

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

History

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|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.99 Revision Date: 07-04-2023 |
|----------------------|-------------------------------------------------|

Variants

| Item # | Type |
|-----------|-----------------------------|
| 943974101 | M-SFP-BIDI-Bundle LX/LC EEC |

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