

Product: [M-FAST SFP-MM/LC EEC transceiver](#) 



SFP Fiberoptic Fast-Ethernet Transceiver, extended temperature range

Product Description

no longer available SFP Fiberoptic Fast-Ethernet Transceiver, extended temperature range

Technical Specifications

Product description

| | |
|-------------------------|-----------------------------------|
| Type: | M-FAST SFP-MM/LC EEC |
| Name: | M-FAST SFP-MM/LC EEC |
| Part Number: | 943945501 |
| Port type and quantity: | 1 x 100 BASE-FX with LC connector |

Network size - length of cable

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|-----------------------------------|--|
| Multimode fiber (MM) 50/125 µm: | 0 - 5000 m, 0 - 8 dB link budget at 1310 nm, A = 1 dB/km, 3 dB Reserve, B = 800 MHz x km |
| Multimode fiber (MM) 62.5/125 µm: | 0 - 4000 m, 0 - 11 dB link budget bei 1310 nm, A = 1 dB/km, 3 dB Reserve, B = 500 MHz*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 |
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Ambient conditions

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|--|------------|
| MTBF (Telecordia SR-332 Issue 3) @ 25°C: | 514 Years |
| Operating temperature: | -40-+85 °C |
| Storage/transport temperature: | -40-+85 °C |
| Relative humidity (non-condensing): | 10-95 % |

Mechanical construction

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|---------------------|-----------------------|
| Dimensions (WxHxD): | 20 mm x 18 mm x 50 mm |
| Weight: | 40 g |
| Mounting: | SFP slot |
| Protection class: | IP 20 |

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), 1kV data line |

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|----------------------------------|---|
| EN 61000-4-6 Conducted Immunity: | 3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz) |
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EMC emitted immunity

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|--------------------|----------------------------|
| EN 55032: | EN 55032 Class A |
| FCC CFR47 Part 15: | FCC 47CFR Part 15, Class A |

Approvals

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|---|-------------|
| Safety of industrial control equipment: | cUL 60950-1 |
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History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.38 Revision Date: 06-20-2023 |
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Variants

| Item # | Type |
|-----------|----------------------------|
| 943945501 | M-FAST SFP-MM/LC EEC (ABB) |

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