

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



SFP Fiberoptic Fast-Ethernet Transceiver SM, extended temperature range

Product Description

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

Technical Specifications

Product description

| | |
|-------------------------|---|
| Type: | M-FAST SFP-SM/LC EEC, SFP Transceiver |
| Description: | SFP Fiberoptic Fast-Ethernet Transceiver SM, extended temperature range |
| Part Number: | 943946001 |
| Port type and quantity: | 1 x 100 Mbit/s with LC connector |

Network size - length of cable

| | |
|----------------------------------|---|
| Single mode fiber (SM) 9/125 µm: | 0 - 25 km (Link Budget at 1310 nm = 0 - 13 dB; A = 0.4 dB/km, D = 3.5 ps/(nm*km)) |
|----------------------------------|---|

Power requirements

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

Software

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

Ambient conditions

| | |
|--|------------|
| MTBF (Telecordia SR-332 Issue 3) @ 25°C: | 652 Years |
| 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: | 30 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 |
| Hazardous locations: | depending on deployed switch |
| Shipbuilding: | depending on deployed switch |

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

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.103 Revision Date: 04-17-2024 |
|----------------------|--|

Variants

| Item # | Type |
|-----------|---------------------------------------|
| 943946001 | M-FAST SFP-SM/LC EEC, SFP Transceiver |

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.