

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



**SFP Fiberoptic Fast-Ethernet Transceiver SM**

**Product Description**

SFP Fiberoptic Fast-Ethernet Transceiver SM with LC connector

**Technical Specifications**

**Product description**

|                         |   |
|-------------------------|---|
| Type:                   | M-FAST SFP-SM+/LC                           |
| Description:            | SFP Fiberoptic Fast-Ethernet Transceiver SM |
| Part Number:            | 943867001                                   |
| Port type and quantity: | 1 x 100 Mbit/s with LC connector            |

**Network size - length of cable**

|                                  |  |
|----------------------------------|--|
| Single mode fiber (SM) 9/125 µm: | 25 - 65 km (Link Budget at 1310 nm = 10 - 29 dB; A = 0,4 dB/km; D = 3,5ps/(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: | 639 Years  |
| Operating temperature:                   | 0-+60 °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:             | 34 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 |

## 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> |

## Variants

| Item #    | Type              |
|-----------|-------------------|
| 943867001 | M-FAST SFP-SM+/LC |

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.88 Revision Date: 11-09-2022 |
|----------------------|---|

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