

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



SFP Fiberoptic bi-directional Fast Ethernet Transceiver SM, Type A, extended temperature range

**Product Description**

SFP Fiberoptic bi-directional Fast Ethernet Transceiver SM with LC connector, Type A, extended temperature range

**Technical Specifications**

**Product description**

|                         |  |
|-------------------------|--|
| Type:                   | SFP-FAST-BA SM/LC EEC  |
| Description:            | SFP Fiberoptic bi-directional Fast Ethernet Transceiver SM, Type A, extended temperature range |
| Part Number:            | 942205001  |
| 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 - 20 km (Link Budget (TX: 1310 nm, RX: 1550) = 0-18 dB; A =0.4 dB/km; 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**

|                                     |           |
|-------------------------------------|-----------|
| 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:             | 40 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 |
|---|---------|

## 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: | <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> |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.75 Revision Date: 04-17-2024 |
|----------------------|---|

## Variants

| Item #    | Type                  |
|-----------|-----------------------|
| 942205001 | SFP-FAST-BA SM/LC EEC |

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