

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


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

Product Description

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

Technical Specifications
Product description

Type:	SFP-FAST-BB SM/LC EEC
Description:	SFP Fiberoptic bi-directional Fast Ethernet Transceiver SM, Type B, extended temperature range
Part Number:	942205002
Port Type and Quantity:	1 x 100 Mbit/s with LC connector

Network size - length of cable

Single mode fiber (SM) 9/125 μ m:	0 - 20 km (Link Budget (TX: 1550 nm, RX: 1310) = 0-18 dB; A = 0.25 dB/km; 19 ps/(nm*km))
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Power requirements

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

Software

Diagnostics:	Optical input and output power, transceiver temperature
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Ambient conditions

Operating temperature:	-40-+85 °C
Minimum Storage 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
Mount Type:	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

Laser Protection: class 1 according to IEC60825-1

Reliability

Guarantee: 24 months (please refer to the <a href="https://assets.belden.com/m/1424ddb7a3280e7a/original/Hirschmann-Automation-and-Control-GmbH-Terms-of-Guarantee.pdf" terms of guarantee </a 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: 0.93 Revision Date: 11-27-2025

Variants

Item #	Type
942205002	SFP-FAST-BB SM/LC EEC

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