

**Product:** [M-SFP-LX/LC EEC](#) 



**SFP Fiberoptic Gigabit Ethernet Transceiver SM, extended temperature range**

**Product Description**

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

**Technical Specifications**

**Product description**

Type:	M-SFP-LX/LC EEC
Description:	SFP Fiberoptic Gigabit Ethernet Transceiver SM, extended temperature range
Part Number:	943897001
Port type and quantity:	1 x 1000 Mbit/s with LC connector

**Network size - length of cable**

Single mode fiber (SM) 9/125 $\mu\text{m}$ :	0 - 20 km (Link Budget at 1310 nm = 0 - 10,5 dB; A = 0,4 dB/km; D = 3,5 ps/(nm*km))
Multimode fiber (MM) 50/125 $\mu\text{m}$ :	0 - 550 m (Link Budget at 1310 nm = 0 - 10,5 dB; A = 1 dB/km; BLP = 800 MHz*km) With f/o adapter in line with IEEE 802.3-2000 clause 38 (single-mode fiber offset-launch mode conditioning patch cord)
Multimode fiber (MM) 62.5/125 $\mu\text{m}$ :	0 - 550 m (Link Budget at 1310 nm = 0 - 10,5 dB; A = 1 dB/km; BLP = 500 MHz*km) With f/o adapter in line with IEEE 802.3-2000 clause 38 (single-mode fiber offset-launch mode conditioning patch cord)

**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:	867 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:	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
943897001	M-SFP-LX/LC EEC

Update and Revision:	Revision Number: 0.94 Revision Date: 11-09-2022
----------------------	---

© 2022 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.