

Product: [M-SFP-10-SR/LC EEC](#) 



SFP Fiberoptic 10 Gigabit Ethernet Transceiver MM, extended temperature range

Product Description

SFP Fiberoptic 10 Gigabit Ethernet Transceiver MM with LC connector, extended temperature range

Technical Specifications

Product description

Type:	M-SFP-10-SR/LC EEC
Description:	SFP Fiberoptic 10 Gigabit Ethernet Transceiver MM, extended temperature range
Part Number:	942210001
Port type and quantity:	1 x 10000 Mbit/s with LC connector

Network size - length of cable

Multimode fiber (MM) 50/125 µm:	0-66 m (Link budget at 850nm = 0-8.1 db; 3.0 dB/km, 400 MHz*km) 0-82 m (Link budget at 850nm = 0-8.1 db; 3.0 dB/km, 500 MHz*km (OM2)) 0-300 m (Link budget at 850nm = 0-8.1 db; 3.0 dB/km, 2000 MHz*km (OM3))
Multimode fiber (MM) 62.5/125 µm:	0-26 m (Link budget at 850nm = 0-8.1 db; 3.2 dB/km, 160 MHz*km) 0-33 m (Link budget at 850nm = 0-8.1 db; 3.2 dB/km, 200 MHz*km (OM1))

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

MTBF:	610 years (Telcordia SR-332, Issue 2, 40°C)
MTBF (Telcordia SR-332 Issue 3) @ 25°C:	610 Years
Operating temperature:	-40-+85 °C
Storage/transport temperature:	-40-+85 °C
Relative humidity (non-condensing):	5-95 %

Mechanical construction

Dimensions (WxHxD):	20 mm x 18 mm x 50 mm
Weight:	74 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
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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
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Further Instructions

Product Documentation:	https://www.doc.hirschmann.com
Certificates:	https://www.doc.hirschmann.com/certificates.html

Variants

Item #	Type
942210001	M-SFP-10-SR/LC EEC

Update and Revision:	Revision Number: 0.75 Revision Date: 11-09-2022
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