

Product: [M-SFP-LH+/LC transceiver](#) 



SFP Fiberoptic Gigabit Ethernet Transceiver.

Product Description

SFP Fiberoptic Gigabit Ethernet Transceiver.

Technical Specifications

Product description

Type:	M-SFP-LH+/LC
Name:	M-SFP-LH+/LC
Part Number:	943049501
Port type and quantity:	1 x 1000BASE-LX with LC connector

Network size - length of cable

Single mode fiber (LH) 9/125 μm (long haul transceiver):	44 - 120 km; 13 - 32 dB link budget at 1550 nm; A = 0.25 dB/km, 2 dB reserve, D = 19 ps/(nm x 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:	0-+60 °C
Storage/transport temperature:	-40-+85 °C
Relative humidity (non-condensing):	10-95 %

Mechanical construction

Dimensions (WxHxD):	20 mm x 18 mm x 50 mm
Weight:	40 g
Mounting:	SFP slot
Protection class:	IP 20

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), 1kV data line
EN 61000-4-6 Conducted Immunity:	3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)

EMC emitted immunity

EN 55032:	EN 55032 Class A
FCC CFR47 Part 15:	FCC 47CFR Part 15, Class A

Approvals

Safety of industrial control equipment:	cUL 60950-1
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Further Instructions

Variants

Item #	Type
943049501	M-SFP-LH+/LC

Update and Revision:	Revision Number: 0.34 Revision Date: 04-08-2022
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