

PRODUCT SPECIFICATIONS

LUMINEX 10GBASE MULTI MODE FIBER TRANCEIVER

Description: Technical specifications 10GBase Multi Mode Fiber Transceiver | REVISION: 20230310-REV 1.0.1

MADE IN BELGIUM

Luminex reserves the right to modify the technical specifications at any given time without prior notice.
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1. DESCRIPTION

Luminex 10GBase-SR SFP+ MMF Transceiver 850nm, 300m, LC, DMI

This multi mode fiber (MMF) SFP+ transceiver provides 10GBase-SR throughput to up to 300m making use of a wavelength of 850nm over a duplex LC connector. This easy to install and hot pluggable/swapable transceiver is programmed and tested to be fully compatible with the real time analytics and diagnostics functions built into GigaCore and Araneo and compliant with IEEE 802.3ah specification. Its wide temperature range ensures reliable operation in the most diverse applications.

ORDERING INFORMATION	
Product name:	Part numbers:
Luminex 10GBase-SR SFP+ MMF Transceiver 850nm, 300m, LC, DMI	LU 90 01116



2. TECHNICAL SPECIFICATIONS

FEATURES

SFF-8432 compliant
 SFF-8472 compliant
 TAA compliant
 Duplex LC connector
 Multi Mode Fiber
 Hot pluggable
 Remote diagnostics with Araneo
 Industrial temperature range

ENVIRONMENTAL

Operating temperature	-40°C to 85°C
Storage temperature	-40°C to 85°C
Humidity	5-85% RH

CONNECTIVITY

Duplex LC connector

MAXIMUM BITRATE

11,13Gbps

REGULATORY COMPLIANCE

ESD to electrical pins	Compatible with MIL-STD-883E Method 3015.4
ESD to LC receptacle	Compatible with IEC 61000-4-3
EMI/EMC	Compatible with FCC Part 15 Subpart B EN55022:2210
Laser Eye Safety	Compatible with FDA21CFR, EN60950-1, EN (IEC) 60825-1,2
RoHS	Compliant with EU RoHS 2.0 directive 2015/863/EU

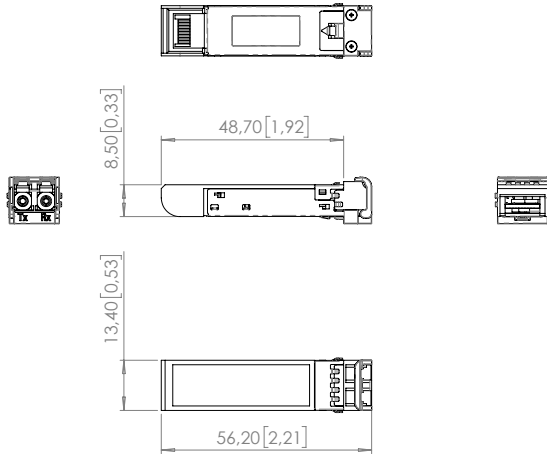
OPTICAL CHARACTERISTICS

Transmit	Symbol	Min.	Typ.	Max.	Units	Comments
Optical power (avg.)	P_{AVE}	-7,3		-1,2	dBm	Coupled in multi mode fiber
Optical Modulation Amplitude (OMA)	P_{OMA}	-1,5			dBm	Per IEEE 802,3ah specification
Optical wavelength	$T\lambda$	840	850	860	nm	
Receive						
Sensitivity (avg.)	R_{AVE}			-9,9	dBm	Avg power back to back, @1,25Gbps, BER 1E-12, PRBS 231-1
Sensitivity (OMA)	R_{OMA}			-12,6	dBm	Per IEEE 802,3ah specification
Receiver wavelength	$R\lambda$	840		860	nm	
Receiver overload	P_{MAX}	0			dBm	Exceeding receiver overload can damage the module Adequate attenuation is needed

2. TECHNICAL SPECIFICATIONS

MECHANICAL

Compatible with MSA (SFP Multi Sourcing Agreement)



Units: mm [inch]

Dimensions (mm)	56,2 x 13,4 x 8,5
weight (g)	18
Housing material	Metal
Packaged weight (g)	32
Packaged Dimensions(mm)	115x20x45