

PRODUCT SPECIFICATIONS

LUMINEX 10GBASE SINGLE MODE FIBER TRANCEIVER

1. DESCRIPTION

Luminex 10GBase-LR SFP+ SMF Transceiver 1310nm, 10km, LC, DMI

This single mode fiber (SMF) SFP+ transceiver provides 10GBase-LR throughput to up to 10km making use of a wavelength of 1310nm 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-LR SFP+ SMF Transceiver 1310nm, 10km, LC, DMI	LU 90 01117



2. TECHNICAL SPECIFICATIONS

FEATURES

SFF-8432 compliant
 SFF-8472 compliant
 TAA compliant
 Duplex LC connector
 Single 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

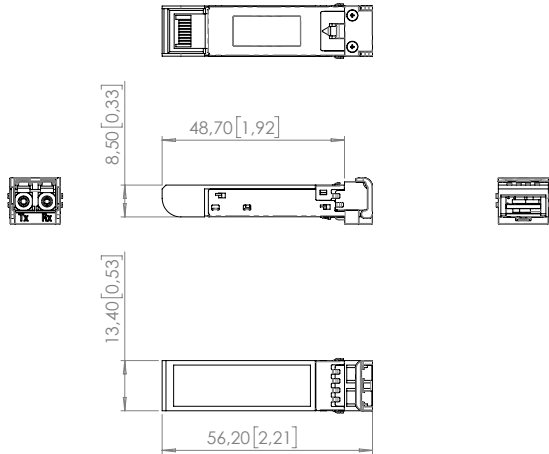
OPTICAL CHARACTERISTICS

Transmit	Symbol	Min.	Typ.	Max.	Units	Comments
Optical power (avg.)	P_{AVE}	-8,2		0,5	dBm	Coupled in single mode fiber
Optical Modulation Amplitude (OMA)	P_{OMA}	-5,2			dBm	Per IEEE 802,3ah specification
Optical wavelength	$T\lambda$	1260	1310	1355	nm	
Receive						
Sensitivity (avg.)	R_{AVE}			-24	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	$R\lambda$	1260		1565	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