

PRODUCT SPECIFICATIONS

LUMINEX 1000BASE MULTI MODE FIBER TRANCEIVER

1. DESCRIPTION

Luminex 1000Base-SX SFP MMF Transceiver 850nm, 550m, LC, DMI

This Multi mode fiber (MMF) SFP transceiver provides 1000Base-SX throughput to up to 550m 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 1000Base-SX SFP MMF Transceiver 850nm, 550m, LC, DMI | LU 90 01125 |



2. TECHNICAL SPECIFICATIONS

FEATURES

INF-8074 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

1,25Gbps

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 |

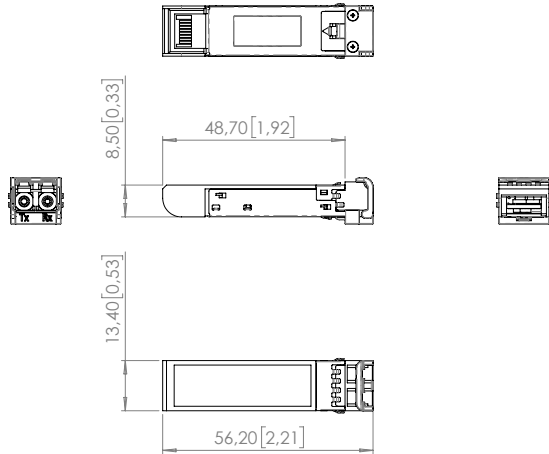
OPTICAL CHARACTERISTICS

| Transmit | Symbol | Min. | Typ. | Max. | Units | Comments |
|----------------------|------------|------|------|------|-------|---|
| Optical power (avg.) | P_{AVE} | -9,5 | | -3 | dBm | Coupled in multi mode fiber |
| Optical wavelength | $T\lambda$ | 770 | 850 | 860 | nm | |
| Receive | | | | | | |
| Sensitivity (avg.) | R_{AVE} | | | -24 | dBm | Avg power back to back, @1,25Gbps, BER 1E-12, PRBS 231-1 |
| 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 |