

PRODUCT SPECIFICATIONS

Luminex 1G/10GBase Single Mode Fiber Transceiver

Description: Technical specifications Luminex 1G/10GBase Single Mode Fiber Transceiver

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MADE IN BELGIUM



Luminex 1G/10GBase Single Mode Fiber Transceiver

This single mode fiber (SMF) SFP+ transceiver provides dual rate 1G/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 is compliant with IEEE 802.3ah specification. Its wide temperature range ensures reliable operation in the most diverse applications.

ORDERING INFORMATION	
Product name:	Part number:
Luminex 1G/10GBase Single Mode Fiber Transceiver	LU 90 01152



Technical Specifications

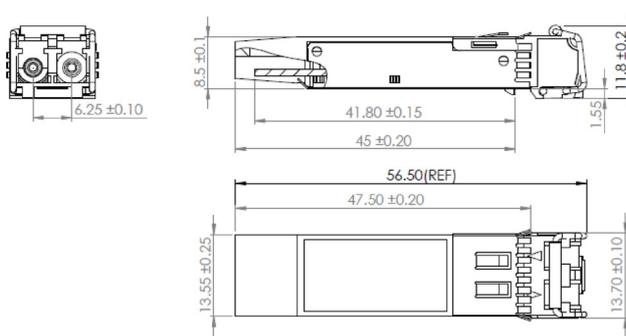
Features							
SFF-8432 compliant							
SFF-8472 compliant							
TAA compliant							
Duplex LC connector							
Single Mode Fiber							
Hot pluggable							
Remote diagnostics with Araneo							
Industrial temperature range							
Environmental							
Operating temperature	-40°C to 85°C						
Storage temperature	-40°C to 85°C						
Humidity	5-85% RH						
Connectivity							
	Duplex LC connector						
Maximum bitrate							
	11,3Gbps						
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		Symbol	Min.	Typ.	Max.	Units	Comments
Sensitivity (avg.)		R_{AVE}			-14,4	dBm	Avg power back to back, @10,31Gbps, BER $1E^{-12}$, PRBS $2^{31}-1$
Sensitivity (OMA)		R_{OMA}			-12,6	dBm	Per IEEE 802,3ah specification
Receiver wavelength		$R\lambda$	1260		1565	nm	
Receiver overload		P_{MAX}	0,5			dBm	Exceeding receiver overload can damage the module Adequate attenuation is needed



Technical Specifications

Mechanical

Compatible with MSA (SFP Multi Sourcing Agreement)



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

