21700128	DATA SHEET
Valid from: 05.06.2025	MUN-SFP-155-SM-LC-13-40-DDI-LLP

Description

- Single-Mode 1310nm
- Operating Data Rate up to 155Mbps
- Duplex SFP Transceiver
- 40 km with 9/125 µm single mode fiber
- Hot pluggable SFP footprint duplex LC connector interface
- Class 1 FDA and IEC60825-1 Laser Safety Compliant
- Operating Temperature: -40°C 85°C
- Compliant with MSA SFP Specification
- Digital Diagnostic compliant with SFF-8472
- Safety Certification: TUV/UL/FDA



Picture just for Illustration

General characteristics

The MUN-SFP-155-SM-LC-13-40-DDI-LLP single-mode transceiver is small form factor pluggable module for duplex optical data communications such as Fast Ethernet and OC-3/STM-1 SDH/SONET. It is with the SFP 20-pin connector to allow hot plug capability. This module is designed for single-mode fiber and operates at a nominal wavelength of 1310nm.

The transmitter section uses a multiple quantum well 1310nm laser and is a class 1 laser compliant according to International Safety Standard IEC 60825.

The MUN-SFP-155-SM-LC-13-40-DDI-LLP is designed to be compliant with SFF-8472 SFP Multi-source Agreement (MSA).

Variation

Article Description

21700128 MUN-SFP-155-SM-LC-13-40-DDI-LLP

Electrical properties

Absolute maximum ratings

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	Ts	-40	+85	°C
Supply Voltage	Vcc	-0,5	3.6	V
Operating Relative Humidity		-	95	%

Recommended Operating conditions

Parameter	Symbol	Min.	Typical	Max.	Unit
Operating temperature	Tc	-40		+85	°C
Power supply voltage	Vcc	3.15	3.3	3.45	V
Power supply current	Icc			300	mA
Data rate	OC-3/STM-1		155		Mbps
Data Tate	100M		100		Minh2

Document: DB21700128EN	Daniel - 6.0
Version: 00	Page 1 of 3

21700128	DATA SHEET
Valid from: 05.06.2025	MUN-SFP-155-SM-LC-13-40-DDI-LLP

Optical and electrical characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit
Length of 9µm Core Diameter SMF	L		40		km
Data rate			100/155		Mbps
	Transmitter				
Centre wavelength	λς	1260	1310	1360	nm
Average output power *(1)	Pout	-5		0	dBm
Output optical eye *(2)		IUT-	T G.957 Compli	ant *(3)	
Receiver					
Center wavelength	λс	1260		1600	nm
Receiver sensitivity *(4)	Pmin			-34	dBm
Receiver overload	Pmax	-3			dBm

Notes:

- *(1) Output power is measured by coupling into a 9/125 μ m single-mode fiber
- *(2) Filtered, measured with a PRBS 2²³-1 test pattern @155Mbps
- *(3) Eye pattern mask
- *(4) Minimum average optical power measured at BER less than 1E-12, with a 2²³-1 PRBS and ER=9 dB.

Laser emission



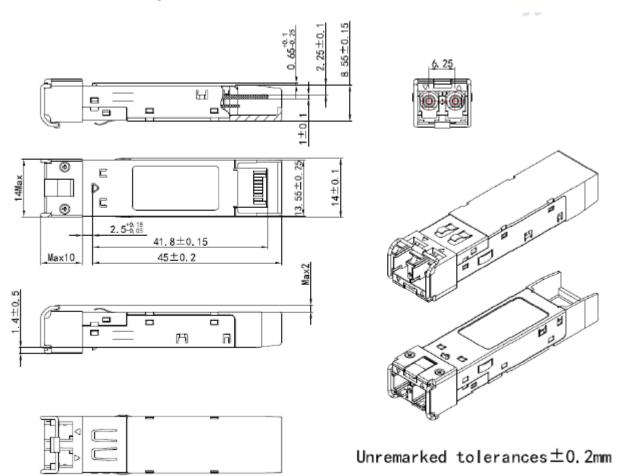
Standards / Approvals

Multiple source agreementMSA SFP specificationFDA laser classClass 1Diagnostic monitoringSFF-8472Laser safety complianceIEC60825-1Safety certificationTUV/UL/FDA

Document: DB21700128EN	Dema 2 of 2	
Version: 00	Page 2 of 3	

21700128	DATA SHEET
Valid from: 05.06.2025	MUN-SFP-155-SM-LC-13-40-DDI-LLP

Technical drawing



Application range

Fast Ethernet Switches and Routers, Fiber Channel Switch Infrastructure, other optical links,

Automation, industrial machinery and plant engineering

Note

Photographs are not true to scale and do not represent detailed images of the respective products.

Commodity product, not a Lapp product.

Document: DB21700128EN	Dans 2 of 2
Version: 00	Page 3 of 3