

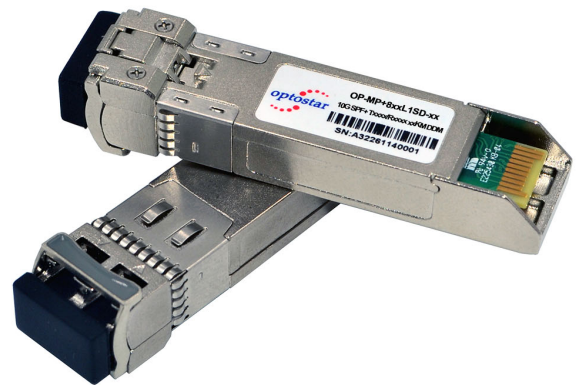


## OP-MP+823L1SD-40

### 10.3Gb/s SFP+ BIDI Transceiver

#### Product Features

- ✓ Single LC connector
- ✓ Hot-pluggable SFP footprint
- ✓ Uncooled DFB laser
- ✓ RoHS compliant and Lead Free
- ✓ Distance up to 40Km on 9/125um SMF
- ✓ Metal enclosure for lower EMI
- ✓ Power dissipation <1.0W (0~70°C)  
<1.5W(-40~85°C)
- ✓ Commercial and industrial operating temperature optional
- ✓ SFP MSA SFF-8472 SFF-8431 SFF-8432 Compliant



#### Applications

- ✓ 10GBASE-LR/LW
- ✓ 10G Fibre Channel

#### General

OPTOSTAR OP-MP+823L1SD-40 Small Form Factor Pluggable (SFP+) transceivers are compatible with SFF-8431, SFF-8432 and support 10G Ethernet LR and 10G Fibre Channel. It is designed for use in 10G-Gigabit multi-rate links up to 40km of G.652. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472.

#### Product Selection

Part Number	Wavelength	Operating Case temperature
OP-MP+823L1SD-40	Tx-1270 / Rx-1330	Commercial
OP-MP+832L1SD-40	Tx-1330 / Rx-1270	Commercial
OP-MP+823L2SD-40	Tx-1270 / Rx-1330	Industrial
OP-MP+832L2SD-40	Tx-1330 / Rx-1270	Industrial









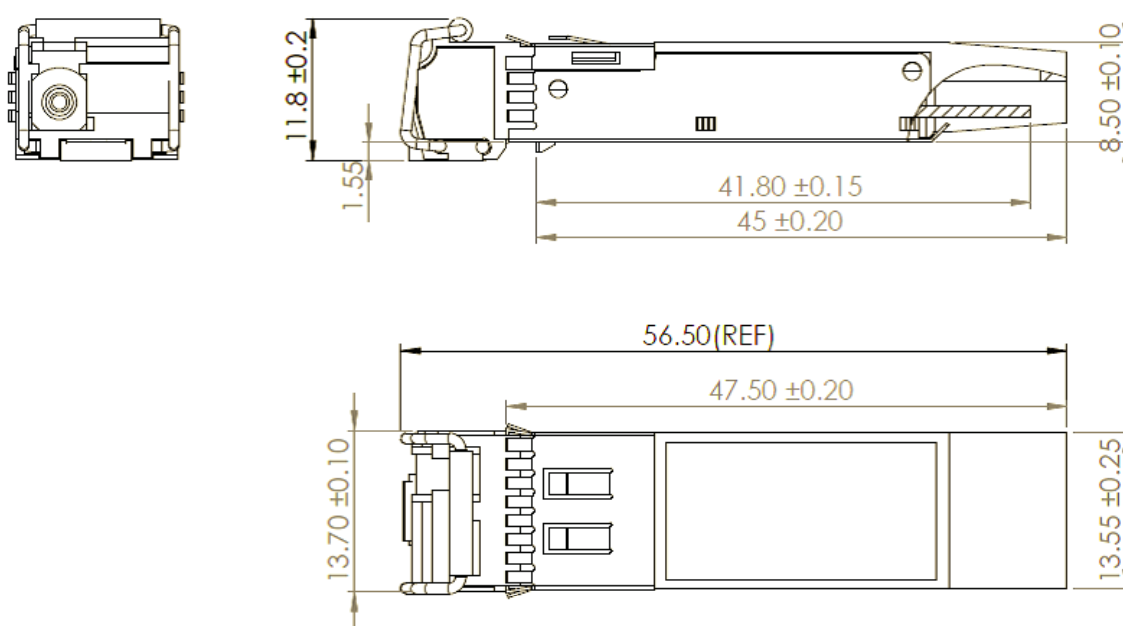
LOS De-Assert	LOSD			-15	dBm	
LOS Assert	LOSA	-30			dBm	
LOS Hysteresis		0.5		5	dB	

### Notes:

1. Measured with conformance signals defined in FC-PI-2 Rev. 10.0 specifications.
2. Measured with PRBS  $2^{31}-1$  at  $10^{-12}$  BER.

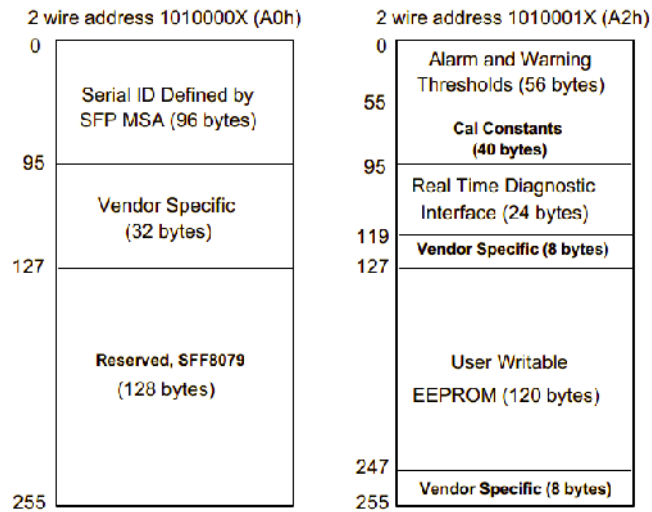
### ■ Mechanical Specifications

OPTOSTAR's Small Form Factor Pluggable(SFP+) transceivers are compatible with the dimensions defined by the SFP Multi-Sourcing Agreement (MSA).



### ■ EEPROM Information

EEPROM memory map specific data field description is as below:



## ■ Digital Diagnostic Monitoring Interface

Five transceiver parameter values are monitored. The following table defines the monitored parameter's accuracy.

Parameter	Range	Accuracy	Calibration
Temperature	0 to +70°C (C)	±3°C	Internal
	-40 to +85°C (I)		
Voltage	2.97 to 3.63V	±3%	Internal
Bias Current	0 to 100mA	±10%	Internal
TX Power	+1 to +6dBm	±3dB	Internal
RX Power	-13 to 0.5dBm	±3dB	Internal

## ■ For More Information

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