

100Gb/s QSFP28 EDR LR4 1310nm 10km SMF Optical Transceiver

Features

- Hot pluggable QSFP28 MSA form factor
- Compliant to IEEE 802.3ba 100GBASE-LR4 and IEEE 802.3bm CAUI-4
- Up to 10km reach for Single Mode Fiber (SMF)
- Single +3.3V power supply
- Operating case temperature of 0-70°C
- 4x25.78Gb/s DFB-based LAN-WDM transmitter
- 4x25.78Gb/s retimed electrical interface
- Maximum power consumption < 3.5W
- Duplex LC receptacles
- RoHS compliant
- SFF-8636 compliant DDM functions

Applications

- 100G Ethernet
- Qualified for InfiniBand EDR end-to-end systems

Description

QSFP-100G-LR4H transceiver is designed for use in 100 Gigabit Ethernet links on up to 10km of single mode fiber. It is also qualified for use in InfiniBand EDR end-to-end systems. The transceiver is compliant with the QSFP28 MSA, IEEE 802.3ba 100GBASE-LR4 and IEEE 802.3bm CAUI-4. Digital diagnostic functions are available via the I2C interface, as specified by the QSFP28 MSA.

The module converts 4 input channels of 25Gb/s electrical data to 4 channels of LAN WDM optical signals and then multiplexes them into a single channel for 100Gb/s optical transmission. Reversely, on the receiver side the module de-multiplexes a 100Gb/s optical LAN WDM input into 4 optical signals and then converts them to 4 output channels of electrical data.

Rigorous production testing ensures the best out-of-the-box installation experience, performance, and durability.

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Units
Storage temperature	T _s	-40	85	°C
Operating case temperature	T _{op}	0	70	°C
Maximum supply voltage	V _{cc}	-0.5	3.6	V
Relative humidity (non-condensation)	RH	15	85	%
Damage threshold, each lane	TH _d	5.5		dBm

Recommended Operating Conditions and Power Supply Requirements

Parameter	Symbol	Min.	Typical	Max.	Units
Supply voltage	V _{ccRx} , V _{cc1} , V _{ccTx}	3.135		3.465	V
Data rate, each lane		-100 ppm	25.78125	+ 100 ppm	Gbps
Link distance with G.652 rated fiber	L _{max}			10	km

Mechanical Schematics

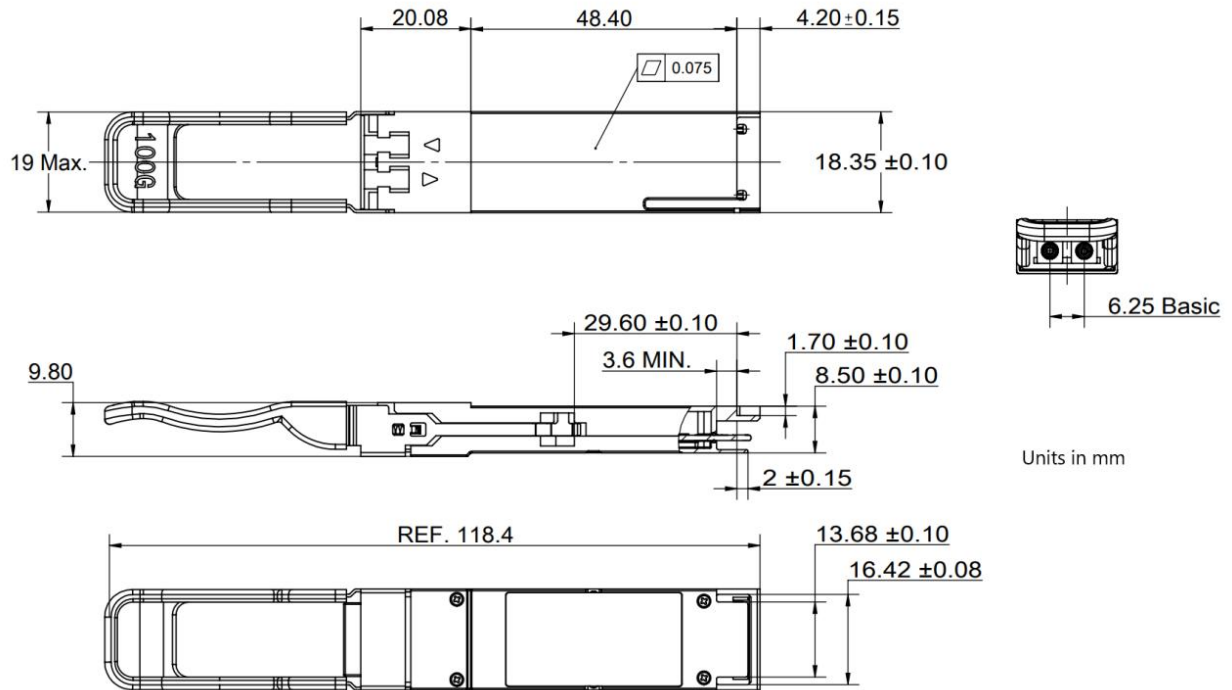


Figure 1 Mechanical Schematics

Warnings

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety

Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

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