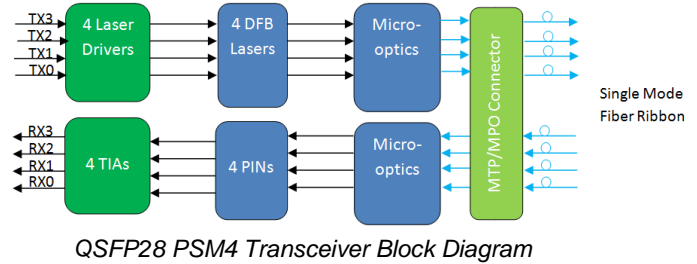




PF-X04-C02801-01



QSFP28 PSM4 Transceiver Block Diagram

Product Summary

This product is a parallel 100Gb/s Quad Small Form-factor Pluggable (QSFP28) optical module. It provides increased port density and total system cost savings. The QSFP28 full-duplex optical module offers 4 independent transmit and receive channels, each capable of 25Gb/s operation for an aggregate data rate of 100Gb/s on 2km of single mode fiber.

An optical fiber ribbon cable with an MTP/MPO connector can be plugged into the QSFP28 module receptacle. Proper alignment is ensured by the guide pins inside the receptacle. The cable usually cannot be twisted for proper channel to channel alignment. Electrical connection is achieved through an MSA-compliant 38-pin edge type connector.

The module operates with single +3.3V power supply. LVCMOS/LVTTL global control signals, such as Module Present, Reset, Interrupt and Low Power Mode, are available with the modules. A 2-wire serial interface is available to send and receive more complex control signals, and to receive digital diagnostic information. Individual channels can be addressed and unused channels can be shut down for maximum design flexibility.

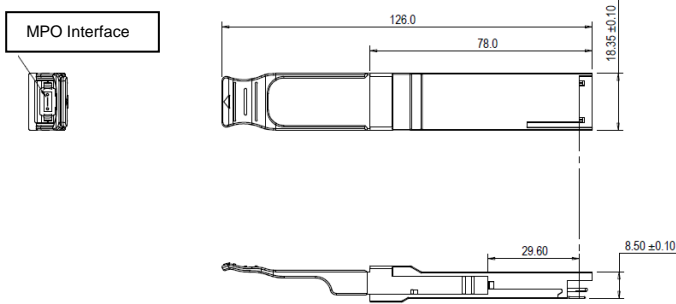
Specifications and Features Highlights

- **4 independent full-duplex channels**
- **Up to 25Gb/s data rate per channel**
- **QSFP28 MSA compliant**
- **Compliant to IEEE 802.3bm 100GBASE PSM4**
- **Up to 2km reach for G.652 SMF**
- **Maximum power consumption 3.5W**
- **Single +3.3V power supply**
- **Operating case temperature: 0 to 70°C**
- **RoHS-6 compliant**

Applications

- **100G Ethernet links**
- **Infiniband QDR and DDR interconnects**
- **Datacenter and Enterprise networking**

Mechanical Considerations



Compliance

Description	Specification
Safety	Laser Class 1 product EN 60825-1: 2014
RoHS	RoHS-6 Compliant
General information only; details are in data spec	

Ordering information

Part Number	Description
PF-X04-C02801-01	QSFP28 IR4 PSM 2km optical transceiver with full real-time digital diagnostic monitoring and pull tab

For more information on this or other products:
 Contact sales at
1-514-842-5179 or **1-408-715-1781** by email at
sales@reflexphotonics.com

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Note: Document revision history is present in separate document.