

QSFP28 LR4 Transceiver



Accelink's 100Gbps QSFP28 LR4 module is designed to meet the requirements of optical fiber interface for 10km reach over duplex SMF in data centers. It is a cost-effective, low power LAN-WDM optical transceiver with high port densities and compact size. Each transceiver incorporates four direct modulated lasers with driver ICs, four PIN diodes with TIAs, and two Mux/De-Mux blocks in a highly integrated CWDM configuration for operation over duplex LC connectors. Mechanical dimensions, connectors and the footprint of this product is QSFP+ MSA compliant.

Features

- Single channel rate up to 28Gbps
- Transmission distance up to 10km
- Compliant with QSFP+ MSA
- 4 LAN-WDM uncooled DML lasers
- Duplex LC connectors
- Single +3.3V power supply
- Low power consumption less than 4.5W
- Operating temperature range: 0°C ~ +70°C
- Compliant with RoHS6

Applications

- 100G Gigabit Ethernet
- Data Center Networking

Standards

- QSFP28:SFF-8665,SFF-8679, SFF-8636
- IEEE802.3ba
- IEEE802.3bm
- OIF-CEI-03.1
- InfiniBand

Specifications

Parameter	Symbol	Unit	Value		
			Min	Typ	Max
Tx					
Center wavelength		nm		1295.56 1300.05 1304.58 1309.14	
Signaling rate, per lane		Gbit/s	25.78125		27.9525
Operating link reach		km		10	
Average launch power, per lane		dBm	-4		4.5
Optical modulation amplitude, per lane	OMA	dBm	-1		4.5
Transmitter and dispersion penalty, per lane	TDP	dB			3
Optical extinction ratio	ER	dB	4		
Total average launch power		dBm			10.5
Average launch power of OFF transmitter, per lane		dBm			-30
Transmitter reflectance		dB			-12
Relative intensity noise	RIN	dB/Hz			-130
Rx (per Lane)					
Center wavelength		nm	Same as Tx		
Signaling rate, per lane		Gbit/s	Same as Tx		
Damage threshold	DT	dBm	5.5		
Average launch power, per lane		dBm	-10.6		4.5
Receive Power(OMA) per lane		dBm			4.5
Receive Sensitivity(OMA) per lane		dBm			-8.6
Receiver reflectance		dB			-26