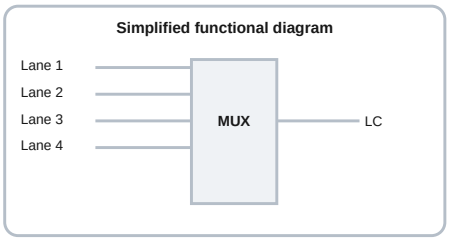
QSFP28-LR4-OTU4

QSFP28, 100GbE-LR4, ITU-T OTU4, 10km

1310nm, 6dB, SM, LC

1. Product overview

Multi-rate QSFP28 LR4 transceiver supporting 100GE and OTU4. Four LAN-WDM optical channels are multiplexed onto a duplex LC interface for up to 10 km over single-mode fiber.



2. Key features

- QSFP28 MSA compliant
- 100GE 103.1 Gb/s and OTU4 up to 111.8 Gb/s aggregate
- 25.78 Gb/s 100GE / 27.95 Gb/s OTU4 lane rates
- IEEE 802.3bm CAUI-4 high-speed interface
- LAN-WDM wavelengths 1295.56/1300.05/1304.58/1309.14 nm
- Power dissipation <4 W; digital diagnostics via SFF-8636

3. Applications

- 100GBASE-LR4 Ethernet links

4. Technical data

Parameter	Value	Parameter	Value
Technology	100G QSFP28 LR4 / OTU4	Media	SMF, duplex LC
Reach	10 km	Wavelengths	LAN-WDM 1295.56-1309.14 nm
Aggregate rate	103.125 to 111.8 Gb/s	Host lanes	25.78 / 27.952 Gb/s
Budget	6 dB	Power	3.5 W table / <4 W feature

5. Recommended operating conditions

Parameter	Value
Case temperature	0 to +70 °C
Supply voltage	3.14 / 3.3 / 3.46 V
Power consumption	3.5 W
Low-power mode	1.5 W

QSFP28-LR4-OTU4

6. Optical characteristics

Parameter	Specification
Transmitter and Dispersion Penalty(TDP)each lane	2.2 dB
Average Launch Power per Lane @TXOff State	-30 dBm
Extinction Ratio	4 dB
Relative Intensity Noise(OMA)	-130 dB/H z
Side-Mode Suppression Ration(SMSR)	30 dB
Optical Return LossTolerance	
100GBASE-LR4 OPERATION	

7. Digital diagnostics and management

Parameter	Specification
Management interface	2-wire serial / I2C through QSFP28 management interface
Digital diagnostics	Temperature, supply voltage, TX bias/power and RX power where implemented
Module controls	ModSelL, ResetL, LPMode, ModPrsL and IntL as applicable
Form factor	Hot-pluggable QSFP28, 38-pin host interface

8. Safety and regulatory

RoHS compliance and normal ESD handling precautions apply. Where stated in the source specification, the optical module is a Class 1 laser product and must be handled in accordance with applicable laser-safety requirements.

9. Ordering information

Ordering number	Product description
Q100G-LR4-OTU4	QSFP28, 100GbE-LR4, ITU-T OTU4, 10km; 1310nm, 6dB, SM

10. General notes

Specifications in this two-page summary are condensed from the supplied GLOBALfiber source data sheet. Values and terminology are retained from the source; no external specifications have been substituted.

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