

100G QSFP28 LR4 10km Transceiver



S-QSFP-100G-LR4

Quick Facts

- For 100GBASE-LR4 Ethernet links
- 103.12 Gbit/s (4× 25.78 Gbit/s)
- Up to 10 km via Singlemode OS2
- LC-Duplex Connector
- Integrated Clock-Data-Recovery (CDR)

Applications

- 100G and 25G LR Breakout (via Breakout Cable)
- Data Centers
- Telecommunications & Backbone Installations

Description

S-QSFP-100G-LR4 QSFP28 transceiver modules are designed for use in 100 Gigabit Ethernet links over single mode fiber (SMF) for a max. distance of 10 km. They are compliant with the QSFP28 MSA and IEEE 802.3ba **100GBASE-LR4** standard. Digital Diagnostics Management is available. The optical transceiver is compliant per the RoHS Directive 2011/65/EU4.

Specifications

General			
Form Factor	QSFP28	Connector / Polish	LC-Duplex PC
Interface	Singlemode	Type	LR4
Bandwidth	103.12 Gbit/s	Lane Count / Bandwidth per Lane	4x 25.78 Gbit/s
Distance	10 km	Temperature Range	0°C – 70°C
Power Consumption	4 W	DDM	Yes, internally calibrated
CDR	TX and RX	SGMII	No
Inbuilt FEC	No		

Optical			
Wavelength Tx (typical)	1295.56 nm, 1300.05 nm, 1304.58 nm, 1309.14 nm	Wavelength Rx (typical)	1295.56 nm, 1300.05 nm, 1304.58 nm, 1309.14 nm
Transmit min / max	-4.3 dBm / 4.5 dBm	Receiver min / max	-8.6 dBm / 4.5 dBm (overload)
Powerbudget	4.3 dB	Receiver Type	PIN
Laser	DFB	Modulation	NRZ
Transmit and Dispersion Penalty	2.2 dB	Extinction Ratio	4 dB



Protocols	
• 100G Ethernet	

Warranty

The Switch2Open transceivers include a 1-year limited hardware warranty, which covers parts, repair, or replacement after the unit is received.

Support & Services

Additional support levels including next business day advance replacement are available on demand.

Ordering Information

Part Number	Description
S-QSFP-100G-LR4	100G QSFP28 LR4 Transceiver, 1296-1309nm, LC, 10km