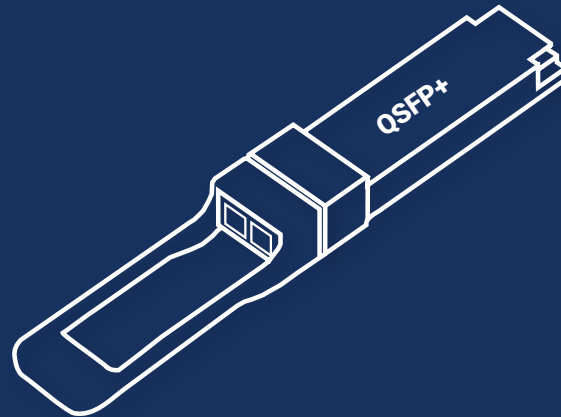
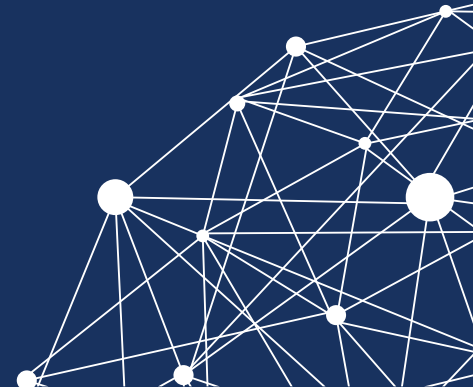


## 40G QSFP+ LR4 10km Transceiver



### S-QSFP-40G-LR4



### Quick Facts

- For 40GBASE-LR4 Ethernet links
- Data Rates: 41.2 Gbit/s (4× 10.3 Gbit/s)
- Up to 10 km via Singlemode OS2
- LC-Duplex Connector
- Digital Diagnostic Management

### Applications

- 40G and 10G LR Breakout (via Breakout Cable)
- Data Centers
- Telecommunications & Backbone Installations

### Description

**S-QSFP-40G-LR4** QSFP+ transceiver modules are designed for use in 40 Gigabit Ethernet links over single mode fiber (SMF) for a max. distance of 10 km. They are compliant with the QSFP+ MSA and IEEE 802.3ba **40GBASE-LR4** standard. Digital Diagnostics Management is available. The optical transceiver is compliant per the RoHS Directive 2011/65/EU4.

### Specifications

#### General

Form Factor	QSFP+	Connector / Polish	LC-Duplex PC
Interface	Singlemode	Type	LR4
Bandwidth	41.2 Gbit/s	Lane Count / Bandwidth per Lane	4× 10.3 Gbit/s
Distance	10km	Temperature Range	0°C – 70°C
Power Consumption	3.5 W	DDM	Yes, internally calibrated
CDR	None	SGMII	No
Inbuilt FEC	No		

#### Optical

Wavelength Tx (typical)	1271 nm, 1291 nm, 1311 nm, 1331 nm	Wavelength Rx (typical)	1271 nm, 1291 nm, 1311 nm, 1331 nm
Transmit min / max	-7 dBm / 2.3 dBm	Receiver min / max	-11.5 dBm / 2.3 dBm (overload)
Powerbudget	4.5 dB	Receiver Type	PIN
Laser	DFB	Modulation	NRZ
Transmit and Dispersion Penalty	2.6 dB	Extinction Ratio	3.5 dB

#### Protocols

- 10G Ethernet
- 40G 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-40G-LR4	40G QSFP+ LR4 Transceiver, 1310nm, LC, 10km