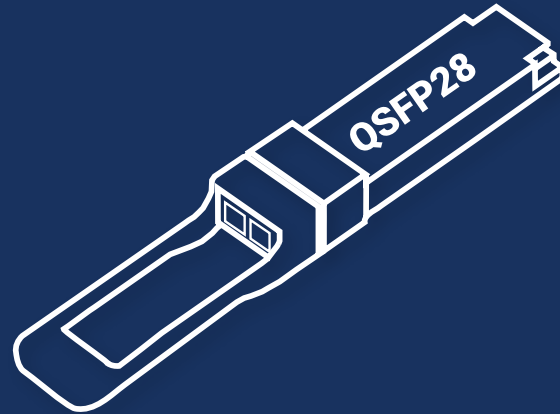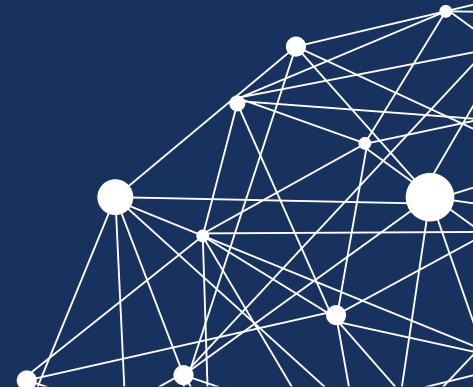# #SWITCH2OPEN

Datasheet

100G QSFP28 ER4 40km Transceiver

QSFP28

S-QSFP-100G-ER4

Quick Facts

- For 100GBASE-ER4 Ethernet links
- Data Rates: 103.12 Gbit/s
- Up to 40 km via Singlemode OS2
- LC-Duplex Connector

Protocols

- 100G Ethernet

Specifications

General

Form Factor	QSFP28	Connector / Polish	LC-Duplex PC
Interface	Singlemode	Type	ER4
Bandwidth	103.12 Gbit/s	Lane Count / Bandwidth per Lane	4× 25.78 Gbit/s
Distance	40 km	Temperature Range	0°C - 70°C
Power Consumption	5 W	DDM	Yes, internally calibrated
CDR	TX and RX	SGMII	No
Inbuilt FEC	No		

Optical

Wavelength Tx (typical)	1295.6 nm, 1300 nm, 1304.6 nm, 1309.1 nm	Wavelength Rx (typical)	1295.6 nm, 1300 nm, 1304.6 nm, 1309.1 nm
Transmit min / max	-2.9 dBm / 2.9 dBm	Receiver min / max	-20.9 dBm / -3.5 dBm (overload)
Power Budget	18 dB	Receiver Type	SOA + PIN
Laser	EML	Modulation	NRZ
Transmit and Dispersion Penalty	2.5 dB	Extinction Ratio	8 dB

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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-ER4	100G QSFP28 ER4 Transceiver, 1296-1309nm, LC, 40km