

# QSFP 40G SR4

## 40G Ethernet SR4 Transceiver

### DESCRIPTION

The QSFP-40G-SR4 transceiver is a Quad Small Formfactor Pluggable module for bi-directional serial optical data communications such as 40GBASE Ethernet and 10GBASE Ethernet. The transceiver uses four parallel data streams of 10.3 Gbps to provide an aggregate signal rate of 41.2 Gbps. The module has an MPO12 male connector and uses four fiber pairs to create the four data lanes.

The modules are fully compliant to the QSFP+ MSA SFF-8436 and are hot pluggable. Digital diagnostic functions are available via an I2C serial bus also specified in SFF-8436. The modules meet the requirements of the IEEE 802.3 40GBASE-SR and are suitable for interconnections in 40G Ethernet environments.

### APPLICATIONS

- 40GBASE-SR4
- 10GBASE-SR
- Data center

### FEATURES

- Up to 150m transmission on OM4 multimode fiber for QSFP-40G-SR4
- Up to 300m transmission on OM4 multimode fiber for QSFP-40G-eSR4
- Hot-Pluggable QSFP footprint
- MPO Optical interface
- QSFP+ MSA compatible
- Digital Diagnostics Monitoring interface
- Single 3.3 V power supply
- Power dissipation < 3.5 W
- RoHS-6 compliant (lead-free)
- Case operating temperature: 0°C to 70°C



### LASER SAFETY

This transceiver is a Class 1 laser product. It complies with IEC-60825 and FDA 21 CFR 1040.10 and 1040.11. The transceiver must be operated within the specified temperature and voltage limits. The optical ports of the module need to be terminated with an optical connector or a dust plug.

### OPTICAL PARAMETERS

Part no.	SM/MM Fiber	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
QSFP-40G-SR4	MM	850 nm	-8 to 2	-10 to 2	2
QSFP-40G-eSR4	MM	850 nm	-8 to 2	-10 to 2	2

Optical power values are per channel

### ORDERING INFORMATION

Part no.	Description
QSFP-40G-SR4	QSFP+, 40G Ethernet, 850nm, MM, DDM, 2dB, 150m
QSFP-40G-eSR4	QSFP+, 40G Ethernet, 850nm, MM, DDM, 2dB, 300m