

Q-SFP-40G-LR4

40G QSFP+ LR4 OPTICAL TRANSCEIVER, DUPLEX LC, 10KM SMF



Form Factor	Fiber Type	Connector	Max Reach
QSFP+	Single-Mode (SMF)	Duplex LC	10 km

OVERVIEW

The Quant Q-SFP-40G-LR4 is a hot-pluggable QSFP+ optical transceiver designed for 40-Gigabit Ethernet transmission over single-mode fiber. The module converts four 10 Gb/s electrical input channels into four CWDM optical signals and multiplexes them into a single optical channel for 40 Gb/s transmission. On the receiver side, the optical signal is demultiplexed back into four channels and converted into electrical signals. The module supports transmission distances up to 10 km over single-mode fiber.

Key Features	Typical Applications
<ul style="list-style-type: none"> Hot-pluggable QSFP+ form factor Supports 40 Gb/s aggregate data rate 4 × 10 Gb/s CWDM optical channels 1271 / 1291 / 1311 / 1331 nm wavelengths Duplex LC optical connector Transmission distance up to 10 km over SMF Digital Diagnostic Monitoring (DDM) support Single +3.3 V power supply Power consumption <3.5 W Operating temperature 0°C to +70°C 	<ul style="list-style-type: none"> 40GBASE-LR4 Ethernet links Data center interconnect Telecom network links High-speed switch-to-switch connections Enterprise and campus backbone networks

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TECHNICAL SPECIFICATIONS

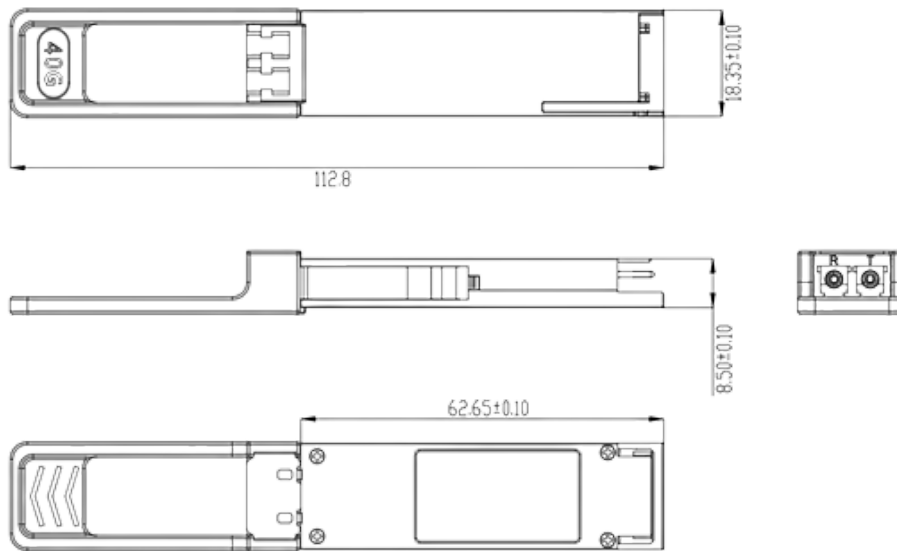
Parameter	Specification
Part Number	Q-SFP-40G-LR4
Description	40G QSFP+ LR4 optical transceiver with DDM
Form Factor	QSFP+, hot-pluggable
Data Rate	40 Gb/s aggregate
Fiber Type	Single-mode fiber (SMF)
Connector	Duplex LC
Maximum Reach	10 km
Wavelength	1271 / 1291 / 1311 / 1331 nm
Transmitter Type	4 × CWDM DFB lasers
Receiver Type	PIN photodiode
Supply Voltage	Single +3.3 V
Maximum Power Consumption	<3.5 W
Operating Temperature	0°C to +70°C
Storage Temperature	-40°C to +85°C

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PRODUCT DIMENSION



ORDERING INFORMATION

Q-SFP-40G-LR4

40 Gb/s QSFP+ optical transceiver, 4-CWDM DFB lasers, 10 km over single-mode fiber, duplex LC connector, commercial temperature (0~70°C), with digital diagnostic monitoring.