Quant
ELEVATING TECHNOLOGY

Q-SFP-40G-SR4

40G QSFP+ SR4 850NM MPO MULTIMODE TRANSCEIVER, 150M

Form Factor	Fiber Type	Connector	Max Reach
QSFP+	Multimode (OM3/OM4 MMF)	MPO-12	150 m

OVERVIEW

The Quant Q-SFP-40G-SR4 is a hot-pluggable QSFP+ optical transceiver designed for 40- Gigabit Ethernet applications over multimode fiber. It supports an aggregate data rate of up to 41.25 Gb/s using four parallel 10G lanes. The module uses 850 nm VCSEL transmitters and PIN receivers and connects through a single MPO-12 optical interface. Transmission distances reach up to 100 m on OM3 multimode fiber and 150 m on OM4 multimode fiber.

Key Features

- Hot-pluggable QSFP+ form factor
- Supports 41.25 Gb/s aggregate data rate
- 4 × 10 Gb/s parallel optical channels
- 850 nm VCSEL transmitter and PIN receiver array
- Single MPO-12 optical connector
- Up to 150 m transmission over OM4 MMF
- Low power consumption (<1.5 W)
- Single +3.3 V power supply
- I2C management interface
- Operating temperature 0°C to +70°C

Typical Applications

- 40GBASE-SR4 Ethernet links
- Data center networking
- High-speed switch-to-switch interconnects
- Breakout to 4 × 10GBASE-SR links
- InfiniBand interconnections

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TECHNICAL SPECIFICATIONS

Parameter	Specification
Part Number	Q-SFP-40G-SR4
Description	40G QSFP+ SR4 optical transceiver with DDM
Form Factor	QSFP+, hot-pluggable
Data Rate	41.25 Gb/s aggregate
Fiber Type	Multimode fiber (OM3/OM4 MMF)
Connector	MPO-12
Maximum Reach	100 m on OM3 / 150 m on OM4
Wavelength	850 nm
Transmitter Type	4 × 850 nm VCSEL
Receiver Type	4 × PIN photodiode
Supply Voltage	Single +3.3 V
Maximum Power Consumption	<1.5 W
Operating Temperature	0°C to +70°C
Storage Temperature	-40°C to +85°C

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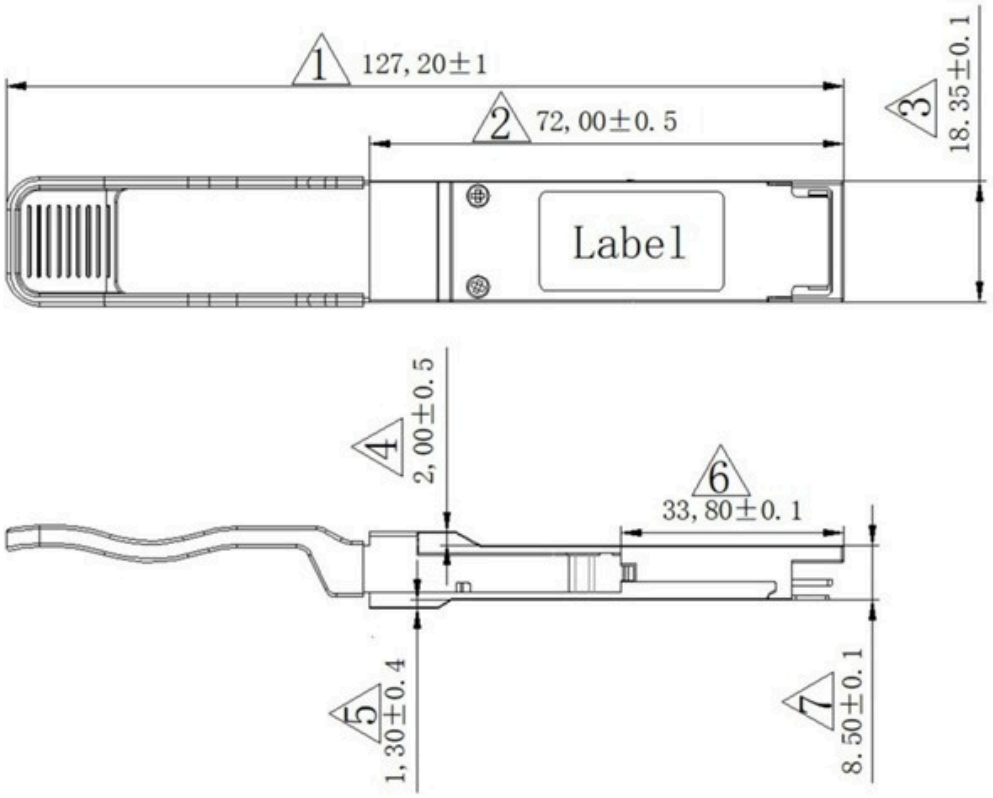
PRODUCT DIMENSION



ORDERING INFORMATION

Q-SFP-40G-SR4	40 Gb/s QSFP+ multimode optical transceiver, MPO-12 connector, 150 m over OM4 / 100 m over OM3 multimode fiber, commercial temperature (0~70°C), with DDM.