

# QSFP 40G LR4 1310nm Dual LC DDM

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## Variants

20km 80km 60Km 10km 40km

## Details

## 40G QSFP+ ER4 1310nm Transceiver

The 40G QSFP+ ER4 optical transceiver is designed for high-speed 40G Ethernet transmission over single-mode fiber (SMF). It supports long-distance communication from 10km up to 60km, making it ideal for data centers, ISP backbone, and metro networks.

## Key Specifications

Parameter	Specification
Product Type	40G QSFP+ ER4 Optical Transceiver
Data Rate	41.25 Gb/s (4 x 10.3125 Gb/s)
Transmission Distance	10 km / 20 km / 30 km / 40 km / 60 km (SMF)
Wavelength	1271 / 1291 / 1311 / 1331 nm (CWDM)
Connector Type	Duplex LC
Fiber Type	Single Mode Fiber (9/125 μm)

## Optical Characteristics

Parameter	Specification
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Laser Type	CWDM DML Laser
Receiver Type	PIN ROSA
Launch Power (Per Lane)	1 to 6 dBm (distance dependent)
Receiver Sensitivity	Up to -15 dBm
Optical Return Loss	? 20 dB

## Electrical & Power

Parameter	Specification
Power Supply	+3.3 V
Power Consumption	? 4.5 W

## Monitoring (DDM)

Supported Parameters	Module Temperature, Voltage, Bias Current, TX Power, RX Power
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## Standards & Compliance

QSFP+ MSA, IEEE 802.3ba (40G Ethernet), InfiniBand QDR/DDR/SDR
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## Operating Temperature

Commercial	0°C to +70°C
Industrial	-40°C to +85°C

## Applications

40G Ethernet Networks

Data Centers

ISP Backbone & Metro Networks

Enterprise Core Networks

## Available Variants

40G QSFP+ ER4 – 10km

40G QSFP+ ER4 – 20km

40G QSFP+ ER4 – 40km

40G QSFP+ ER4 – 60km