QSFP 40G LR 1310nm Dual LC DDM

QSFP 40G LR 1310nm Dual LC DDM

Variants

20km 60Km 40km 80km 40G LR1 DX -10km

Details

40G • SINGLE MODE • DUPLEX LC

High-Speed 40G Optical Transceiver • CWDM Technology • 10KM / 20KM / 40KM / 60KM • Single-Mode Fiber

The **40G QSFP+ ER4 Optical Transceiver** is designed for high-speed 40 Gigabit Ethernet transmission over **single-mode fiber (SMF)**. Using four CWDM optical channels, it supports long-distance network connectivity from **10KM up to 60KM**, making it suitable for data centers, ISP backbone networks, metro networks and enterprise core infrastructure.

DATA RATE

40G

CONNECTOR

Duplex LC

FIBER TYPE

SMF

DISTANCE

10–60KM

Key Features

? 40G high-speed optical transmission

? Four-channel CWDM optical architecture

? Duplex LC single-mode fiber interface

? Available from 10KM up to 60KM

? Digital diagnostics monitoring (DDM)

? Hot-pluggable QSFP+ form factor

Available Variants

QSFP+ ER4

10KM

Single-Mode Fiber

QSFP+ ER4

20KM

Single-Mode Fiber

QSFP+ ER4

40KM

Single-Mode Fiber

QSFP+ ER4

60KM

Single-Mode Fiber

Technical Specifications

Parameter	Specification
Product Type	40G QSFP+ ER4 Optical Transceiver
Form Factor	QSFP+
Data Rate	41.25 Gb/s (4 × 10.3125 Gb/s)
Transmission Distance	**10KM / 20KM / 40KM / 60KM**
Wavelengths	1271 / 1291 / 1311 / 1331 nm CWDM
Connector Type	Duplex LC
Fiber Type	Single-Mode Fiber (9/125 µm)

Optical Characteristics

Parameter	Specification
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

Power & Digital Monitoring

POWER SUPPLY

+3.3 V

POWER CONSUMPTION

? 4.5 W

DIGITAL MONITORING

DDM / DOM

DDM Monitoring Parameters: Module Temperature, Supply Voltage, Bias Current, TX Optical Power and RX Optical Power.

Operating Temperature

COMMERCIAL

0°C to +70°C

INDUSTRIAL

-40°C to +85°C

Standards & Compliance

QSFP+ MSA • IEEE 802.3ba 40G Ethernet • InfiniBand QDR / DDR / SDR

Applications

40G Ethernet | Data Centers | ISP Backbone | Metro Networks | Enterprise Core Networks | Long-Distance 40G Links

Before Ordering

Please select the required transmission distance: **10KM, 20KM, 40KM or 60KM**. Optical power levels and receiver characteristics may vary depending on the selected distance model. Confirm switch compatibility and optical link budget before installation.

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