

Lebanese Single-Fiber Bidirectional QSFP-DD



Summary of Content

Single-fiber bidirectional QSFP-DD modules in Lebanon enable high-speed 100G-400G connections while halving fiber usage, ideal for data centers and enterprise networks.

Overview

QSFP-DD (Quad Small Form-Factor Pluggable Double-Density) is a high-speed optical transceiver standard that supports 400G and 800G data rates by doubling the number of electrical interfaces compared to QSFP28 while maintaining the same port density (Cisco) . When implemented as bidirectional (BiDi) single-fiber modules, these transceivers transmit and receive data over a single fiber strand using different wavelengths, effectively halving fiber requirements and reducing infrastructure costs .

Benefits of Single-Fiber BiDi QSFP-DD

- **Fiber Efficiency:** Uses one fiber per link instead of two, maximizing existing fiber infrastructure .
- **High-Speed Support:** Compatible with 1G to 400G networks, with breakout options for 100G aggregation .
- **Plug-and-Play:** Simple installation with low insertion loss, requiring no additional power source .
- **Vendor Compatibility:** Works with major networking brands including Cisco, Arista, Juniper, Huawei, and ZTE .

Article Content

Cisco 400G QSFP-DD Cable and Transceiver Modules Data Sheet

The 400 Gigabit Ethernet signal is carried over four parallel pairs of fibers by two 50Gbps bidirectional wavelength per

Specification – QSFP-DD

July 11, 2019 – QSFP-DD Hardware Specification for QSFP DOUBLE DENSITY 8X PLUGGABLE TRANSCEIVER –

QSFP+, QSFP28 & QSFP-DD Transceivers — 40G to 400G

High-speed QSFP+, QSFP28, and QSFP-DD optical transceivers for 40G, 100G, 200G, and 400G networks. Cisco, Arista, Juniper &

Lebanese Single-Fiber Bidirectional QSFP-DD

ABC Stimulo Photonics designs and manufactures fiber optic cables, optical transceivers, ODF frames, data center cabling solutions,

Cisco QSFP-DD Pluggable Open Line System (QDD

The QSFP-DD-OLS has two bidirectional optical ports: the COM

QSFP-DD

QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts providing for

Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

The QSFP-DD-OLS has two bidirectional optical ports: the COM-RX/TX that shall be connected to the Multiplexer /

QSFP-DD – GIGALIGHT

These modules are innovative single-mode fibers for solving fiber dispersion issues in high-speed long-distance communication

QSFP-DD — Multilane

Products Home > Products > Data Center Test Solutions > QSFP-DD QSFP-DD

QSFP-DD 16F Cable Assemblies

QSFP-DD 16F Cable Assemblies are designed to unleash 16-fiber high-speed capabilities tailored for the future of data centers,

Optical Transceiver Products | OptiLink Lebanon

Compatible optical transceivers, DAC, and AOC cables for enterprise networks, data centers, ISP infrastructure, and FTTH

Contact Us

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