

Lebanese Enterprise-Grade Optical Router QSFP-DD



AI Overview

QSFP-DD modules enable high-density, high-speed optical connectivity for enterprise routers in Lebanon, supporting 400G and 800G networks with backward compatibility and optimized thermal performance.

Overview of QSFP-DD Technology

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) is a high-speed optical transceiver standard designed to meet the growing bandwidth demands of modern data centers, cloud networks, and 5G infrastructure . It features an 8-lane electrical interface, doubling the density of traditional QSFP modules while maintaining a compact footprint, which allows enterprise routers to support higher port density without increasing rack space . QSFP-DD modules support speeds from 400G to 800G, with emerging designs targeting 1600G for future-proof deployments .

Key Advantages

- Backward Compatibility:** QSFP-DD ports can accept legacy QSFP modules, enabling gradual network upgrades while protecting previous infrastructure investments .
- High Port Density:** The double-lane design allows more connections per router, crucial for enterprise and hyperscale networks .
- Thermal Efficiency:** Optimized for high-speed operation, QSFP-DD modules can dissipate up to 12W per module, ensuring reliable performance in dense deployments .
- Flexible Deployment:** Supports short-range multimode, coherent DWDM for metro/regional networks, and 2x100G connections over single-mode fiber, making it suitable for both data center and enterprise backbone applications .
- Security and Interoperability:** Some modules offer AES-256 encryption and Open ROADM compliance for secure, multi-vendor network integration .

Lebanese Availability

In Lebanon, OptiLink provides a range of QSFP-DD transceivers compatible with major enterprise routers, including Cisco Nexus, Arista, Juniper QFX/MX, Huawei CE, and Dell platforms . These modules cover 40G to 400G...

Article Content

Cisco QSFP-DD800 Transceiver Modules Data Sheet

For more information and references on QSFP-DD cable guides, please click on the following link: [Cisco Transceiver Modules - Brochures - Cisco](#)

Optical Transceiver Buying Guide: SFP/QSFP Explained for Enterprise ...

Whether for data centers, enterprise networks, or service providers, choosing the right optical transceiver is critical for ensuring seamless, high-speed data transmission over fiber optic

OptiLink — Optical Transceivers & Fiber Optic Equipment | Lebanon

Lebanon's premier supplier of SFP, SFP+, QSFP28, GPON, and fiber optic equipment. Compatible with Cisco, Huawei, MikroTik. Serving ISPs, data centers, and enterprises across Lebanon and the

Lebanese Telecom-Grade Router 400G

How to compare the lengths of different cold-joints Greek optical module accessories
El Salvador Galvanized Aluminum-Magnesium Cable Tray Is it easy to run a
distribution box company Sri Lanka

Ultimate QSFP Transceiver Guide: Types (40G/100G)

Confused by QSFP types? Decode the differences between QSFP+, QSFP28 (100G), and QSFP-DD. Learn how to select the right speed, connector (SR4 vs

800G QSFP-DD Digital Coherent Optics Transceiver

High transmitter optical output power enable the transceivers to be compatible with deployed and emerging ROADM line systems. The 800G Digital Coherent Optics

Cisco 400G QSFP-DD Cable and Transceiver Modules

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. QDD-400-CuxM cables are suitable for very short links and offer a cost-effective

LINK-PP LQD-CW400-LR4C 400G QSFP-DD LR4

The LINK-PP LQD-CW400-LR4C 400G QSFP-DD LR4 Transceiver offers 10km range, 400Gbps speed, and energy efficiency, ideal for data centers

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent

These digital coherent optics modules enable 800G traffic over amplified DWDM links up to 120 km for 800ZR and over 1000 km for 800G ZR+.

800G Optical Transceiver Overview: QSFP-DD and

This article provides an overview of 800G optical transceivers, focusing on the QSFP-DD and OSFP packages. Explore the features,

QSFP-DD – GIGALIGHT

The optical amplifier module developed by GIGALIGHT is designed for long-distance transmission systems in digital optical fiber communication. It is specifically designed to work in conjunction with

QSFP-DD Optical Transceivers for High-Speed

Cisco's comprehensive portfolio of QSFP-DD modules support 400G and 800G data rates across copper, multimode fiber, and single-mode fiber, and

800G QSFP-DD Digital Coherent Optics Transceiver

The 800G Digital Coherent Optics (DCO) family of transceivers are available in two small form-factors, QSFP-DD and OSFP, which enable them to plug directly into

QSFP-DD Guide

QSFP-DD is a high-speed, high-density, hot-pluggable optical transceiver module used in data communication applications. QSFP-DD is an evolution of the QSFP (Quad Small Form Factor

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Optical Transceiver Products | OptiLink Lebanon

Optical Transceivers & Cables Compatible optical transceivers, DAC, and AOC cables for enterprise networks, data centers, ISP infrastructure, and FTTH deployments across Lebanon and the Middle

Cisco QSFP-DD Pluggable Open Line System (QDD

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that provides a simple yet powerful

Understanding QSFP-DD 400G Optical Transceivers –

QSFP-DD stands for Quad Small Form-factor Pluggable Double Density. It's an upgraded version of the standard QSFP form factor, designed to

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 & Huawei compatible. OptiLink — Lebanon & Middle East.

QSFP DD Guide: High-Speed QSFP DD Optical Modules

In this comprehensive guide, we will explore how QSFP DD works, why it has become a preferred optical module standard, and how it is deployed in

QSFP-DD Optical Transceivers Unlocking Faster

The QSFP-DD (Quad Small Form-Factor Pluggable Double Density) optical transceiver is a revolutionary advancement in high-speed data

QSFP-DD Optical Transceivers – MapYourTech

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative advancement in optical transceiver technology,

What is QSFP & QSFP+ Transceiver: An Ultimate

QSFP AOC: Active optical cable with QSFP+ module on both ends, mainly for medium to long reach interconnectivity. Multimode QSFP: The MMF

QSFP-DD Optical Transceivers Unlocking Faster

QSFP-DD Optical Transceivers deliver up to 800Gbps speeds, offering high bandwidth, energy efficiency, and compatibility for modern networks

Contact Us

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