

Imported optical router QSFP-DD



Article Overview

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) modules enable high-speed, high-density optical connections in imported core routers, supporting 400G and beyond with backward compatibility and efficient thermal performance.

Overview of QSFP-DD Technology

QSFP-DD is an advanced optical transceiver standard designed to double the lane density of traditional QSFP modules, supporting 8 high-speed electrical lanes compared to 4 in QSFP28, enabling data rates up to 400G and 800G in advanced implementations . It maintains backward mechanical compatibility with QSFP28 and QSFP56 cages, allowing seamless upgrades in existing router and switch infrastructure . The modules are compact, thermally efficient, and suitable for high-density deployments in data centers, metro, regional, and long-haul networks .

Key Features

- **High Port Density:** QSFP-DD modules double the number of lanes without increasing the physical footprint, optimizing space on core routers and switches .
- **Backward Compatibility:** QSFP-DD ports can accept legacy QSFP modules, enabling gradual network upgrades while protecting previous investments .
- **Thermal Efficiency:** Designed to dissipate up to 12W per module, QSFP-DD supports high-speed operation without overheating .
- **Flexible Data Rates:** Supports 8×25G NRZ for 200G, 8×50G PAM4 for 400G, and 8×100G PAM4 for 800G, with potential for future higher-speed applications .
- **Interoperability:** Compliant with industry standards such as OIF, OpenZR+, and O...

Article Content

Cisco 400G QSFP-DD: Understanding Optical Transceiver Modules

Discover the Cisco 400G QSFP-DD optical transceiver modules, designed for high bandwidth in data centers, ensuring

MikroTik · DDQ+85MP01D

QSFP-DD optical module for reliable 400G fiber connections, perfect for distances beyond DAC reach, up

Cisco QSFP-DD Pluggable Open Line System (QSFP-DD OLS)

Product overview The Cisco® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together

QSFP-DD Guide

QSFP-DD stands for Quad Small Form Factor Double Density. QSFP-DD is a high-speed, high-density, hot-pluggable optical

QSFP-DD Optical Transceivers Unlocking Faster Connections

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

QSFP-DD Optical Transceivers for High-Speed Connections

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

QSFP-DD Fibre Optic Transceiver Technology Overview

QSFP-DD Fibre Optic Transceiver Technology Overview QSFP-DD The QSFP-DD (Quad Small Form-factor Pluggable – Double

What Is QSFP-DD? Specs, Architecture, and 400G Use Cases

What Is QSFP-DD? QSFP-DD enables high-speed Ethernet with double density, backward compatibility, and up to

400G QSFP-DD Cable and Transceiver Modules Data Sheet

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

800G Optical Transceiver Overview: QSFP-DD and OSFP Packages

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

800G Module Packaging: QSFP-DD or OSFP, Which Fits Your Needs?

Discover the differences between 800G QSFP-DD and OSFP modules. Learn which packaging offers the best

QSFP-DD Optical Transceivers for High-Speed Connections

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or

The Ultimate Guide to Cisco QSFP Optical Transceiver Modules

Efficient and consistent data transmission is significant in the rapidly changing technological environment. Without a

Complete Guide to 400G QSFP-DD Transceivers

Today, we are proud to deliver a large selection of 25G SFP28, 40G QSFP+, 100G QSFP28 and 400G QSFP-DD

Cisco QSFP-DD Pluggable Open Line System (QSFP-DD OLS)

This latest offering from Cisco, the QSFP-DD OLS, is a “pluggable open line system” solution that perfectly integrates into the Cisco

QSFP-DD Optical Transceivers – MapYourTech

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

QSFP-DD Product Family » Acacia

Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for

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

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

Understanding QSFP-DD 400G Optical Transceivers – The ...

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

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

Specification – QSFP-DD

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

A Deeper Dive into 400G QSFP-DD Transceiver with DWDM

By 2022, 800G pluggable optical modules had already hit the market. Now, coherent modules have evolved into

400G QSFP-DD Digital Coherent Optics transceiver

By plugging Coherent's high transmit output power 400G QSFP-DD-DCO transceivers directly into their

How to Choose QSFP-DD: Step-by-Step Selection Guide

Learn how to choose QSFP-DD transceivers for 400G/800G networks, including reach, compatibility, power, and

40G QSFP+ TRANSCEIVERS | Smartoptics

QSFP-DD transceivers dQSFP+ is a cost-efficient solution for 40G Ethernet that is popular for breakout to maximize fiber utilization.

Cisco QSFP-DD Pluggable Open Line System (QSFP-DD OLS)

The Cisco QSFP-DD OLS can be directly configured and managed by the IOS® XR SW on board Cisco routers. Below are the

QSFP-DD Compatible Switches: Complete 2025 Vendor Guide

Find which switches support QSFP-DD modules. Our 2025 guide covers Cisco, Arista, Juniper and NVIDIA platforms

What is QSFP-DD Transceiver: A Beginner Guide (2022)

It is now prevalent in data center computing, switches, routers, and storage. With enhanced data rate applications, the

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