

Certified Enterprise-Grade Optical Router QSFP-DD



Overview

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe[®] Gen 5.0 over optical link, enabling scalable server disaggregation and efficient rack-to-rack interconnects ideal for AI/ML and rack-scale data center expansion. Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links. Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D. The Cisco[®] family of QSFP-DD modules provide the industry's highest bandwidth density while leveraging the backward compatibility to lower-speed QSFP pluggable modules and cables. QSFP-DD LPO TRANSCEIVER. At the heart of this leap forward lies QSFP-DD (Quad Small Form Factor Pluggable Double Density) — an enhanced version of the proven QSFP form factor, designed to double the lane density and support data rates up to 400Gbps and beyond.



Article Content

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

QSFP-DD Optical Transceivers – MapYourTech

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

Cisco NCS-57D2-18DD-S Router 7.2Tbps 66x QSFP

Cisco's NCS-57D2-18DD-S is a high-performance 7.2 Tbps fixed base chassis featuring 66 QSFP-DD flexible ports, designed for data-intensive enterprises.

Microsoft Word

Product Overview The Cisco® 40GBASE QSFP+ (Quad Small Form-Factor Pluggable Plus) modules offer customers a wide variety of high-density 40 Gigabit Ethernet connectivity options for data

7280R3A Modular Data Center Switch Router

DCS-7368-4D QSFP-DD - 4 ports of 400G with QSFP-DD optics and cables and the use of existing 100G optics and cables. DCS-7358-16C QSFP100 - 16 ports of 100G, up to 4 ports of 200G DCS

The Ultimate Guide to Cisco QSFP Optical Transceiver

The QSFP standard was followed by Cisco's QSFP optical transceiver modules, which were created for fast data transmission. The QSFP+

400Gbps QSFP-DD Optical Module

Describes the chassis, power supply, fans, boards, optical modules, and power distribution box of the NetEngine 8000 M14K, M14, M8K, M8, M4, 8000E M14, M8.

Cisco 400G QSFP-DD High-Power (Bright) Optical Module

Product overview Cisco is now expanding the range of 400G Digital Coherent QSFP-DD transceivers, introducing High Tx Power variants (+1dBm of Tx Power). Thanks to the miniaturization of the

The Ultimate Reference Table for SFP & QSFP Optical Transceiver ...

Executive Summary: Navigating the 2025 Optical Landscape In 2025, the optical transceiver market has shifted decisively. While 100G remains the workhorse for enterprise edges,

QSFP-DD Linear Pluggable Optics (LPO)

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe[®] Gen 5.0 over optical link, enabling

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

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

400G QSFP-DD Cable and Transceiver Modules Data Sheet | FS

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. They are suitable for very short links and offer a cost-effective way to establish a 400-Gigabit link between QSFP-400G ports of

Understanding the QSFP-DD Standard: The Foundation of 400G

The QSFP-DD was conceived by the QSFP-DD MSA group, including Cisco, Intel, Broadcom, and Mellanox (now NVIDIA). The goal was to enable 400G and 800G speeds within the

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

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

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 with the channel breakout options (described later), provides a simple

Arista Optics Modules and Cables

To accommodate an increasing spectrum of applications, Arista offers a wide choice of OSFP, QSFP-DD, QSFP, SFP, SFP-DD and DSFP transceivers and cables that comply with industry standards,

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+.

Optical Terminal

The OptiXstar product series extends optical connectivity to every home, enterprise, and campus, bringing families closer and making enterprise operations far more

Arista DCS-7280DR3AK-36-F 36x400GbE QSFP-DD Switch Router

Deploy Arista DCS-7280DR3AK-36-F for 36x400GbE spine routing with large route scale and TunnelSec in compact 1RU. Order now.

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

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco Transceiver Modules Compatibility Matrix.

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

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

Cisco 100GBASE QSFP-DD 100G ZR Module Data Sheet

The Cisco 100G Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) 100G ZR provides customers with a 100 Gigabit Ethernet ZR

QSFP DD Guide: High-Speed QSFP DD Optical Modules

Learn how QSFP DD enables high-speed 400G networking with higher density, compatibility, and performance for modern data centers.

Understanding the QSFP-DD Standard: The Foundation of 400G Optical ...

The QSFP-DD specification, maintained by the QSFP-DD Multi-Source Agreement (MSA) and built upon SFF-8679 (electrical) and SFF-8677 (mechanical) foundations, enables cloud-scale,

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 placed between modules. This flexibility enables switch and routing

Contact Us

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