

Optical Line Terminal QSFP-DD



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 yet powerful open line system solution in a QSFP-DD pluggable form factor (also compatible with QSFP28). 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 yet powerful open line system solution in a QSFP-DD pluggable form factor (also compatible with QSFP28). The QSFP-DD OLS is a pluggable open line system solution that can be directly hosted on a Cisco router. Over optical link, enabling scalable server disaggregation and efficient rack-to-rack interconnects ideal for AI/ML and rack-scale data center expansion. QSFP-DD connector portfolio's backwards compatibility allows. 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

Optical Solutions

An extensive lineup of advanced Molex solutions brings the benefits of optical technology to customers in telecommunications, datacom and other demanding

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

QSFP-DD (Quad Small Form Factor Pluggable Double Density) is an evolution of the QSFP family, extending its lane capacity from 4 to 8 high-speed electrical lanes. Each lane supports

QSFP DD Connectors

Amphenol ICC's QSFP DD interconnect system is comprised of a 76 position, 0.8mm pitch connector built for use in high speed serial applications. Each port supports up to 400Gb/s in aggregate over an

QSFP-DD Connector System

QSFP-DD Interconnect System enables faceplate density equal to the current 2x1 QSFP form factor, but with 8-lane ports. In other words, a total of 256 differential

QSFP-DD Optical Transceivers Unlocking Faster

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

200G QSFP-DD Active Optical Cable with DDM (1-100m)

200G QSFP-DD Active Optical Cable with DDM - 1 meter High-quality optical transceiver from EDGE Optical Solutions.

QSFP-DD Product Family » Acacia

Bright 400ZR+ QSFP-DD Pluggable Coherent Optical Module Metro/regional | Service provider ROADM networks Key Features High optical transmitter output

Qsfp-dd Module Market Size, Trends, 2026-2033 Forecast, and

The Qsfp-dd Module Market research report offers a comprehensive, data-driven analysis of the current landscape, future growth trajectories, and strategic imperatives for stakeholders.

QSFP-DD Transceiver Guide 2026: Complete 400G/800G Deployment

What is a QSFP-DD Transceiver? The QSFP-DD optical transceiver form factor enables 400G and 800G connections while supporting existing QSFP systems because it maintains

QSFP-DD Hardware

QSFP-DD supports up to 400 Gb/s in aggregate over an 8 x 50 Gb/s electrical interface. The cage and connector design provides backwards compatibility to QSFP28 modules which can be inserted into a

QSFP-DD Connectors | High Speed I/O | Amphenol

Amphenol's QSFP-DD high-speed connector family features a scalable, high-performance interconnect platform with 76 contacts on a 0.8mm

Comprehensive Guide to QSFP – MapYourTech

QSFP-DD introduces enhanced thermal management capabilities through riding heat sinks that can be optimized independently of the optical

2025 Lightwave+BTR Innovation Reviews Honorees

Our twelfth annual Lightwave+BTR Innovation Reviews follows our standard format. We invited technology developers to submit products introduced or enhanced

Differences Between QSFP-DD and QSFP+ / QSFP28

QSFP-DD transceivers are a leading solution in high-speed 200G, 400G, and 800G applications. The differences between QSFP-DD and

QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G PAM-4, up to 200, 400 or 800 Gbps aggregate.

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

LINK-PP has developed a complete line of QSFP-DD 400G optical modules fully compliant with SFF-8677, SFF-8679, and the QSFP-DD MSA. These transceivers are optimized for

QSFP-DD Optical Module Overview: What is the differ?

The QSFP-DD is the smallest 400G form factor optical module on the market today. It is also the optical module that offers the highest

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

40G QSFP: The Core of Optical Network Interconnection

A: Fiber cables in association with a QSFP-DD module facilitate the transmission of optical signals within a network over long distances. Moreover,

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-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

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 scalable server disaggregation and efficient rack-to-rack

QSFP-DD Connectors, Cages and Cable Assemblies

QSFP-DD provides high-performance computing capability. The QSFP interconnects density is doubled with electrical interface, providing superior

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

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 yet powerful open line

Contact Us

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