ODMSD-WAN Device QSFP-DD



Overview

QSFP-DD is a new module developed but with the same form factor as the current QSFP, to support high-speed solutions. It provides eight lanes electrical interface. Each lane can operate up to 25Gbps NRZ modulation or 50Gbps PAM4 modulation. 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. Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double Density (QSFP-DD) module, connector and cage system. This document provides a common specification for systems. QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative advancement in optical transceiver technology, addressing the exponential growth in data center bandwidth requirements and the demands of modern high-performance computing environments. Customers can upgrade their box in advance of new cables. The QSFP-DD OLS is a pluggable open line system solution that can be directly hosted on a Cisco router.



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Article Content

Jul 02, 2025

Comprehensive Guide to QSFP-DD, QSFP28, QSFP56,

Complete Guide to QSFP-DD, QSFP28, QSFP56, SFP56, and SFP28 Optical Modules As high-speed networks continue to evolve, optical transceivers like

Nov 29, 2025

QSFP-DD Optical Transceivers – MapYourTech

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

Jan 28, 2026

800G Transceivers: QSFP-DD vs OSFP, Which to

Learn the main differences between the two packages of 800G transceivers, QSFP-DD and OSFP, and compare their similarities and differences

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QSFP-DD Configuration

QSFP-DD is a new module developed but with the same form factor as the current QSFP, to support high-speed solutions. It provides eight lanes electrical interface.

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Cisco 400G QSFP-DD Data Sheet

Cisco 400G QSFP-DD Data Sheet - Free download as PDF File (.pdf), Text File (.txt) or read online for free.

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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

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Unlocking the Future of Connectivity: Understanding

Discover the future of connectivity with QSFP-DD transceivers. Learn how this compact, high-density interface enhances 200G/400G interconnect

Apr 14, 2026

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Differences Between QSFP-DD and QSFP+ / QSFP28 /

Equipment equipped with QSFP-DD ports supports backward compatibility with existing QSFP+, QSFP28, and QSFP56 modules. This feature

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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+.

Mar 22, 2026

TE Connectivity

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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What is QSFP-DD Transceiver: A Beginner Guide

QSFP-DD transceiver is becoming increasingly popular in data center applications nowadays. In this beginner''s guide, we will take a closer look at the

Sep 12, 2025

Introduction to 400G OSFP and 400G QSFP-DD

This article will introduce the features of each 400G OSFP and 400G QSFP-DD Transceivers and explained the major difference between them.

Jul 17, 2025

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

Apr 02, 2026

QSFP-DD Optical Transceivers – MapYourTech

What is QSFP-DD? QSFP-DD is an advanced hot-pluggable optical transceiver form factor that doubles the bandwidth density of traditional QSFP28

Aug 13, 2025

200G Optical Transceiver: QSFP-DD vs OSFP for Data

Explore how Fibrecross''s QSFP-DD and OSFP packaged 200G optical transceivers can improve the bandwidth, density and scalability of modern data centers.

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QSFP-DD Wiki and Comparison of QSFP-DD vs OSFP and QSFP

QSFP-DD MSA QSFP-DD MSA (multi-source agreement) is the de facto standard that defines and develops the QSFP-DD form factor. MSA working members include dozens of brand

Mar 14, 2026

Understanding Backward Compatibility with QSFP-DD,

Network improvements and transceiver functionality are inextricably related to backward compatibility. A thorough explanation of backward

Aug 24, 2025

Connectors and Cages

QSFP-DD cages in switches can accept QSFP112, QSFP56, and QSFP28 devices using 50G-PAM4 or 25G-NRZ modulation. QSFP112 cages in adapters and DPUs can accept QSFP56,

Jun 19, 2026

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

This “pluggable open line system” perfectly integrates into the Cisco Routed Optical Networking architecture by hosting line system abilities directly on a router. The 400G Bright QSFP-DD optics is

Sep 07, 2025

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

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

Jun 22, 2026

OSFP Transceivers vs QSFP-DD: Which Is Better for Your 400G Data

Versatility. QSFP-DD works with several devices and tools. It can work with DACs (direct attach copper), AOCs (active optical cables), and breakout cables. Typical use cases. QSFP-DD is

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What is QSFP-DD connector□

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QSFP-DD (Quad Small Form-factor Pluggable Double Density) connector is a high-speed, high-density data center interconnect solution that is used to connect network equipment

Dec 04, 2025

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

Dec 06, 2025

Specification – QSFP-DD

July 11, 2019 – QSFP-DD Hardware Specification for QSFP DOUBLE DENSITY 8X PLUGGABLE TRANSCEIVER – Rev 5.0 May 8, 2019 – Common Management Interface

Nov 30, 2025

400G Optical Transceivers: What''s the Difference Between OSFP and QSFP-DD?

Application Scenarios: Both QSFP-DD and OSFP are suitable for data center interconnect (DCI) scenarios, including direct attach copper cables (DAC), active optical cables (AOC), and fiber optic

Oct 07, 2025

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

Oct 11, 2025

QSFP-DD vs OSFP: Which 400G/800G Form Factor

Today, two form factors dominate: QSFP-DD (Quad Small Form Factor Pluggable – Double Density) and OSFP (Octal Small Form Factor

Aug 05, 2025

The Ultimate Guide to QSFP Cable: Everything You

They include: QSFP+: This is the most common type that supports up to 40Gbps in data centers. QSFP28: It has a higher bandwidth than QSFP+,

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