

Ukrainian QSFP optical module QSFP-DD



Overview

QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts providing for an eight lane electrical interface. It is being developed by the QSFP-DD MSA as a key part of the industry's effort to enable high-speed. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+. QSFP-DD extends the use. This article provides a comprehensive comparison of mainstream optical transceivers, including SFP, SFP+, QSFP+, QSFP28, and QSFP-DD. It explains their technical differences, compatibility considerations, and ideal use cases to help readers choose the right module for enterprise and data center. 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. As data traffic continues. 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/QSFP-DD800/QSFP-DD1600) connector and cage system. Cisco has expanded the range of 400G digital coherent QSFP-DD transceivers with the 400G QSFP-DD.

Article Content

Mar 22, 2026

The Different Types of QSFP Transceivers and Their

QSFP stands for Quad Small Form-factor Pluggable. It is a high-speed optical transceiver module that can be used in a variety of applications, including

May 11, 2026

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

They expand Cisco routed optical networking applications to include 800G links and are compatible with Cisco and third-party 800G-capable routers,

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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

Feb 16, 2026

An Overview on QSFP-DD (Double Density QSFP)

QSFP-DD is a “double-density” module and cage/connector system which is similar to the current QSFP system. But QSFP-DD has an additional row

May 16, 2026

Detailed Explanation of QSFP Optical Module Packaging

Detailed explanation of QSFP optical module packaging, covering specifications, rate enhancements, and compatibility of QSFP+, QSFP28, QSFP56, QSFP112, and

Jul 10, 2025

Comprehensive Guide to QSFP – MapYourTech

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

Mar 01, 2026

Complete 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

May 05, 2026

optician

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

Mar 24, 2026

Comprehensive Guide to 400G/800G QSFP-DD Optical

From a technological perspective, both 400G and 800G QSFP-DD modules benefit from significant advancements. Silicon photonics has played a

Apr 09, 2026

How to Achieve Interconnection Between OSFP and QSFP-DD Ports?

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support scalable 400G/800G data center networks.

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Optical Transceiver: SFP vs SFP+ vs QSFP28 vs QSFP-DD

This article provides a comprehensive comparison of mainstream optical transceivers, including SFP, SFP+, QSFP+, QSFP28, and QSFP-DD. It explains their technical differences,

May 21, 2026

QSFP-DD TRANSCEIVERS for 400G and 800G

Smartoptics QSFP-DD transceivers provide cost-efficient 400G and 800G optical networking. QSFP-DD (Quad Small Form-Factor Pluggable Double Density)

Oct 24, 2025

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

Feb 14, 2026

QSFP-DD Optical Module Wiki

QSFP-DD (Quad Small Form Factor Pluggable-Double Density) is a new modular connector system that utilizes a dual-density, four-channel, small, hot-swappable optical module

Jan 21, 2026

what is 400G QSFP-DD optical module

QSFP-DD (Quad Small Form Factor Pluggable-Double Density) is a high-speed pluggable module package defined by the QSFP-DD MSA team, and is the first choice for 400G

Mar 14, 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

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Differences Between QSFP-DD and QSFP+ / QSFP28 /

As a leading solution in high-speed applications, QSFP-DD transceivers are often compared with other modules such as QSFP56, QSFP112,

Oct 29, 2025

QSFP-DD vs QSFP28: Unraveling the Key Differences

Discover the key differences between QSFP-DD and QSFP28 optical modules in our comprehensive guide. Learn about their roles in high-speed data

Nov 27, 2025

Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics

The 400G QSFP-DD ULH module is mechanically compliant with the Quad Small Form Factor Pluggable Double Density (QSFP-DD) Type 2A Module

May 22, 2026

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

Apr 16, 2026

Cisco 400G QSFP-DD: Understanding Optical

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

Dec 09, 2025

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

The QSFP-DD standard represents the pinnacle of optical interconnect evolution — enabling unprecedented bandwidth density, efficiency, and scalability for modern data centers.

Feb 20, 2026

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

This article will provide a detailed comparison of the current mainstream 400G optical modules, including QSFP-DD, QSFP56, OSFP, CFP8,

Aug 09, 2025

400G OSFP/QSFP-DD/QSFP112 Module Introduction and Selection

The explosive growth of global data volume has placed higher demands on the bandwidth and performance of data center networks, making 400G optical modules a critical

Nov 20, 2025

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 modern data centers.

Nov 04, 2025

800G Optical Modules: A Detailed Comparison of QSFP

In today's fast-paced world of data centers and telecoms, 800G optical modules are leading the charge in high-speed network innovation. But

Jan 02, 2026

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.

Jun 14, 2026

QSFP-DD Hardware

QSFP-DD MSA family of modules and cages remain fully backward compatible with the classic QSFP+ formfactor. This document provides a common specification for systems manufacturers, system

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