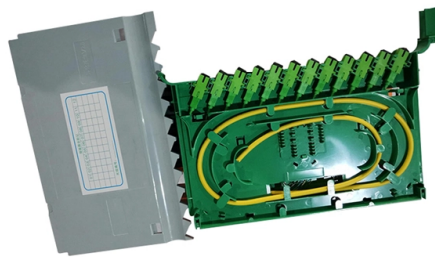


Security-grade QSFP-DD optical module SFP



Overview

The QSFP-DD modules are our new generation of 400G transceiver modules based on a QSFP-DD form factor. 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+. 4 (Jan 2025), to help you design robust, scalable optical fabrics. The Master Reference Matrix: SFP vs. QSFP Standards (2025 Edition) This table. 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. The Basics: These acronyms define the form factor and speed of a pluggable optical transceiver. Choosing the wrong one leads to physical layer link failures. SFP/SFP+: The standard for 1G/10G campus and server connectivity.



Article Content

Dec 09, 2025

SFP vs SFP+ vs QSFP28 vs QSFP-DD: 2026 Optical

QSFP-DD ports are designed to be backward compatible with QSFP28 modules. This allows you to upgrade your spine switches to 400G/800G

Jan 08, 2026

The Big Differences Between SFP, SFP+, SFP28,

Delve deep into the world of optical modules. From SFP to the latest QSFP-DD, explore their differences, applications, and what to consider for your

Dec 01, 2025

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

Dec 20, 2025

Complete Guide to QSFP-DD, QSFP28, QSFP56,

As high-speed networks continue to evolve, optical transceivers like QSFP-DD, QSFP28, QSFP56, SFP56, and SFP28 have become the core components

Apr 21, 2026

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

60Gbaud signal is supported. All network operators can now approach the Routed Optical Networking solution without any limitation driven by the legacy WDM

Jun 03, 2026

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

Nov 23, 2025

SFP vs. QSFP: Differences, Use Cases, and How to Choose

Compare SFP vs. QSFP transceivers: key differences, speeds, distances, costs, and expert guidance to choose the right module for your network architecture.

Dec 17, 2025

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

Apr 30, 2026

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

Oct 30, 2025

QSFP-DD 400G SR4 Optical Module: The New Choice

In an era where technology is advancing at an unprecedented pace, the demand for high-speed, reliable network connectivity has never been greater.

Oct 11, 2025

Arista QDD-400G-PLR4-Arista | 400G QSFP-DD Transceiver, Single

The Arista QDD-400G-PLR4 is a 400GBASE-PLR4 QSFP-DD optical transceiver designed for high-performance data center and enterprise network applications. It delivers 400 Gigabit Ethernet

Aug 20, 2025

Single Mode Optical Modules Market 2026

Emergence of Coherent Optics for Long-Haul The market is seeing growing interest in coherent Single Mode Optical Modules for metro and long-haul applications, offering improved transmission

Dec 21, 2025

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

The definitive guide to SFP, QSFP, and QSFP-DD standards for 2025. Compare 400G/800G optics, understand PAM4 complexity, and master QSFP-DD vs OSFP deployment

Dec 21, 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

Oct 17, 2025

What's New in Optical Transceiver Standards: QSFP-DD, SFP56

The QSFP-DD form factor has been widely adopted by network equipment manufacturers including Cisco, Juniper, Arista, and Huawei, with modules ranging from 100G to 400G and even

Apr 19, 2026

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

Cisco offers a comprehensive range of pluggable optical modules in the Cisco® pluggables portfolio. The wide variety of modules gives you flexible and cost-effective options for all types of interfaces.

Aug 19, 2025

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

Jul 25, 2025

Transceivers Explained: SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28

Discover the key differences between SFP, SFP+, SFP28, QSFP+, and QSFP28 transceivers. Learn which is right for your network.

Nov 03, 2025

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

Compare SFP, SFP+, QSFP+, QSFP28, and QSFP-DD optical transceivers. Learn differences, speeds, and best use cases for data center networks.

Mar 09, 2026

Common 400G QSFP-DD Transceiver Types in the Market

400G QSFP-DD optical module is a high-speed hot-pluggable transceiver. Here it will help you learn what 400G QSFP-DD optical modules exactly are, and the

Nov 10, 2025

Do You Know the Differences Between SFP, SFP+,

SFP, SFP+, QSFP+, SFP28, QSFP28, QSFP-DD, and OSFP are the seven broad categories of Pluggable Transceiver Optics. These terms refer to the

May 23, 2026

Cisco C9610 Series Smart Switches Data Sheet

Platform highlights With high density 25/50 Gigabit SFP and 100/400 Gigabit QSFP modular switches for enterprise campuses, Cisco C9610 Series

Apr 28, 2026

A Guide to 100G Transceiver QSFP28, SFP56-DD,

The large-scale application of the SFP-DD can achieve interoperability with the current 100G QSFP28 single channel optical module and switch in the future.

Aug 10, 2025

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)

Apr 01, 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

Feb 17, 2026

Cisco 400G Digital Coherent Optics QSFP-DD Optical

Cisco offers a range of GBIC, SFP, XFP, SFP+, CXP, CFP, Cisco CPAK, and QSFP+ pluggable modules. These small, modular optical interface

Dec 07, 2025

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

May 07, 2026

QSFP-DD Optical Transceivers – MapYourTech

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

Jan 18, 2026

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

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module's small size and low power make it an optimal choice for a wide range of

Contact Us

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