

Swedish OEM optical modulator QSFP-DD



Overview

The STC-QSFPDD-LR4-10KM transceiver from Swedish Telecom delivers 400Gbps Ethernet over up to 10 kilometers of single-mode fiber (SMF). It uses four LAN-WDM optical lanes, each operating at 106. As a 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+. With its compact form factor, backward. 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. This article will introduce the next generation optical module in detail, QSFP-DD, also known as quad small factor pluggable, and this article will also introduce the difference between QSFP-DD optical module and other 400G form factor modules.



Article Content

Hot

SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD,

Initial Published: February 19, 2022 The optical transceiver plays a crucial role in modern fiber networking. Various high-speed transceiver types are

May 24, 2026 Hot

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

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QSFP-DD Optical Transceivers for High-Speed Connections

Cisco helped define the QSFP-DD form factor Multisource Agreement (MSA) to meet the requirements of next-generation switching and routing applications. Cisco offers a comprehensive portfolio of

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QSFP-DD TRANSCEIVERS for 400G and 800G | Smartoptics

QSFP-DD is the most widely adopted form factor for 400G, with great potential for 800G. While QSFP-DD prioritizes backward compatibility, OSFP's larger surface area enables higher thermal efficiency

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Comprehensive Guide to QSFP - MapYourTech

QSFP112 returns to a 4-lane architecture but increases the per-lane rate to 100 Gbps using PAM4 modulation, achieving 400 Gbps aggregate

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QSFP-DD OVERVIEW

RVIEW OVERVIEW The tables below list the QSFP-DD transceivers currently provided in the Smartoptics portfolio and with the most character. stic parameters. Please refer to the respective

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Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

The QSFP-DD ZR Plus variant complies with OpenZR+ MSA, allowing to cope for distances going from regional to long haul with multiple amplification sites between the end point. This variant is also

Sep 08, 2025 Hot

QSFP-DD TRANSCEIVERS for 400G and 800G

Cost-efficient and easy-to-deploy AES-256 encryption 200G with 16QAM modulation for 50GHz spaced filters Rigorously tested for thermal, electrical and optical

Mar 01, 2026 Hot

400G-QSFP-DD-DR4-500M

400G QSFP-DD DR4 transceiver, delivering upto 500 meters over multimode fiber. Ideal for high-density, high-speed data connections & advanced optical networks - EN

Aug 01, 2025 Hot

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

Applications of 400G/800G QSFP-DD Optical Modules The 400G/800G QSFP-DD optical modules leverage a double-density design to

Sep 13, 2025 Hot

Ultimate Guide to QSFP-DD 400G Optical Modules:

The QSFP-DD 400G optical module has become a key element in the fast-changing field of data transmission technology to improve network

Jan 12, 2026 Hot

QSFP-DD Optical Transceivers for High-Speed

Cisco offers a comprehensive portfolio of QSFP-DD modules across copper, multimode fiber, and single-mode fiber, optimized for a broad range of

Nov 03, 2025 Hot

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

Jun 30, 2026 Hot

STC-QSFPDD-FR4-2KM – 400G QSFP-DD FR4 2km Transceiver

400G-QSFP-DD-FR4-2Km supports PAM4 modulation and a data rate of 425 Gbps, which is ideal for medium-range applications in data center networks. - EN

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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

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Cisco 400G Digital Coherent Optics QSFP-DD Optical

Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers

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200G Optical Transceivers: Deep Dive into QSFP56 vs QSFP-DD

Compare 200G QSFP56 and QSFP-DD optical modules, covering form factors, modulation, architecture, and compatibility for data centers and 400G network upgrades.

Dec 11, 2025 Hot

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

Jan 22, 2026 Hot

OEM 800G QSFP-DD Optical Modules: Technical Overview and

OEM 800G QSFP-DD modules must be fully compatible with major switch and NIC vendors to ensure market acceptance and reduced integration risk.

Mar 13, 2026 Hot

QSFP-DDVSQSFP+/QSFP28/QSFP56/OSFP:What Are

The QSFP-DD, heralded as the most compact form factor for 400G transceivers, is gaining traction among fiber optic manufacturers for its

Dec 09, 2025 Hot

200G QSFP-DD PSM8 Optical Transceiver

Regardless of whether it is 40G, 100G, or 200G optical modules, PSM technology has obvious advantages over wavelength division multiplexing technology. The

Apr 02, 2026 Hot

STC-QSFPDD-LR4-10KM – 400G QSFP-DD LR4 10km Transceiver

The STC-QSFPDD-LR4-10KM transceiver from Swedish Telecom delivers 400Gbps Ethernet over up to 10 kilometers of single-mode fiber (SMF). It uses four LAN-WDM optical lanes, each operating at

Feb 19, 2026 Hot

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.

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QSFP-DD Optical Transceivers Unlocking Faster

The QSFP-DD (Quad Small Form-Factor Pluggable Double Density) optical transceiver is a revolutionary advancement in high-speed data

Jul 23, 2025 Hot

Optical Transceivers SFP SFP28 QSFP28 QSFP-DD 1G to 400G Range

By partnering with tier-1 optical component manufacturers, we ensure every module meets the highest industry standards. Each transceiver undergoes rigorous testing and comes supported by a Limited

Oct 17, 2025 Hot

OEM 100G QSFP28 & 200G QSFP56, QSFP-DD, CFP2

Direct OEM/ODM manufacturer of 100G/200G transceivers for AI clusters & hyperscale cloud. 100% tested 100G QSFP28, 200G QSFP56, QSFP-DD & CFP2 solutions.

Dec 04, 2025 Hot

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

May 16, 2026 Hot

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,

Oct 17, 2025 Hot

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

This article will introduce the next generation optical module in detail, QSFP-DD, also known as quad small factor pluggable, and this article will also

Mar 31, 2026

Contact Us

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