

Ukraine QSFP-DD Optical Module QSFP



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. 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 Cisco 400G QSFP-DD Ultra Long-Haul Coherent Optics Module enables 400G traffic anywhere over dense wavelength division multiplexing amplified networks, and is available in both C-band and L-band. Cisco has expanded the range of 400G digital coherent QSFP-DD transceivers with the 400G QSFP-DD. QSFP-DD pricing creates significant challenges for buyers due to the extreme opacity of the market. Standard procurement guides list endless catalog numbers without valuable context, overwhelming engineers with technical specifications while completely obscuring actual market costs. It allows 400G speeds in a native 4-lane configuration, reducing the complexity of breakout cables required by early 400G QSFP-DD (8-lane) implementations. Deep Dive: SFP Standards Evolution (Access & Edge) The "Small. 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.

Article Content

Apr 16, 2026

OSFP vs. QSFP vs. SFP: Which Is Right for You?

Confused about the differences between OSFP, QSFP, and SFP? This guide explains their distinct features, applications, and helps you choose the

Sep 22, 2025

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

The Arista QDD-400G-PLR4-S is a 400GBASE-PLR4 QSFP-DD optical transceiver designed for 400 Gigabit Ethernet transmission up to 10km over single-mode fiber. It supports 4x100G breakout

Jan 30, 2026

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

Jul 27, 2025

Arista QDD-400G-XDR4-S | 400G QSFP-DD Transceiver, Single

The Arista QDD-400G-XDR4-S is a 400G QSFP-DD optical transceiver designed for high-speed data center and enterprise network applications. It supports 400GBASE-XDR4 transmission up to 2km

Jul 10, 2025

Arista QDD-400G-XDR4-Arista | 400G QSFP-DD Transceiver, Single

Description The Arista QDD-400G-XDR4 is a 400GBASE-XDR4 QSFP-DD optical transceiver designed for high-speed data center and campus connectivity over single-mode fiber. Supporting 400Gb/s

May 11, 2026

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

This article explores the technical characteristics, product lineup, and use cases of 400G OSFP/QSFP-DD/QSFP112 modules to choose the most suitable 400G solution for your data centers.

Dec 29, 2025

Arista QDD-800G-2PLR4 | 800G QSFP-DD Transceiver, Single

The Arista QDD-800G-2PLR4 is an 800 Gigabit QSFP-DD optical transceiver designed for high-performance data center and enterprise applications. Supporting 8x 100GBASE-LR or 2x 800G

May 13, 2026

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year TCO analysis for data center buyers.

Sep 26, 2025

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

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

Aug 09, 2025

800G LPO QSFP-DD800 Optical Transceiver for AI/HPC Data Centers

By leveraging linear pluggable optical (LPO) technology, these modules minimize on-module digital signal processing, reduce power consumption per port, and support scalable, high

Jan 28, 2026

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 30, 2026

Optical Transceiver Market Size, Share, Industry Report

Optical Transceiver Market Size & Share 2026-2035 Market Size By Form Factor (SFP family, QSFP family, OSFP, CFP family, XFP, CXP), By Data Rate (Less

Mar 30, 2026

400G QSFP-DD ZR+ Coherent Modules | GIGALIGHT

The QSFP-DD coherent optical module has six designated pins on the 76-pin connector for its own power feed. The host board supplies a stable power to the module which in turn limits the inrush

Jul 05, 2025

QSFP-DD Optical Transceivers - MapYourTech

By the conclusion of this guide, you will possess a comprehensive understanding of QSFP-DD technology sufficient to make informed decisions

Jun 10, 2026

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+ Cables, MiniSAS Cables, QSFP Cables, XFP Cables, CX4 Infiniband Cables

Sep 03, 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.

Jan 31, 2026

NVIDIA Optical Modules Buying Guide: QSFP-DD vs OSFP 800G

Comprehensive guide to NVIDIA optical modules covering QSFP-DD and OSFP 800G solutions. Learn about compatibility, deployment considerations, and technical specifications for

Apr 24, 2026

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 29, 2026

QSFP-DD-400G-SR4 Optical Transceiver 1. Summary

The Huawei QSFP-DD-400G-SR4 optical transceiver module represents a critical leap forward in short-range network solutions, delivering unprecedented bandwidth over multi-mode fiber

May 20, 2026

Huawei QSFP-DD-400G-SR4 400G Optical Transceiver Module

The Huawei QSFP-DD-400G-SR4 is a high-performance, hot-pluggable optical transceiver designed for 400 Gigabit Ethernet links over multi-mode fiber (MMF). Utilizing the QSFP-DD (Quad Small Form

May 08, 2026

Optical Transceivers / SFP Modules - High-Performance Compatible

Comprehensive Optical Transceivers & SFP Module for High-Speed Networks LINK-PP offers a full range of optical transceivers and SFP module for modern data centers, telecom networks, and

Apr 22, 2026

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

Jul 30, 2025

NVIDIA Optical Modules: QSFP-DD/OSFP 800G Solutions,

Explore NVIDIA's 800G optical modules with QSFP-DD and OSFP form factors. Learn about performance specifications, compatibility features, and application scenarios for AI clusters

May 10, 2026

SFP vs SFP28 vs QSFP28 vs QSFP-DD/OSFP: 2026

SFP vs SFP28 vs QSFP28 vs QSFP-DD/OSFP: 2026 Data Center Optical Transceiver Selection Guide An engineer-focused, "just tell me what to

Dec 01, 2025

Optical Modules Market Research Report 2034

The QSFP (Quad Small Form-factor Pluggable) form factor family, encompassing QSFP+, QSFP28, QSFP56, and QSFP-DD variants, was the dominant form

Contact Us

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