

Selection Guide for OSFP and QSFP Optical Modules Used in Supercomputing Centers



Overview

This article compares OSFP and QSFP-DD in terms of physical dimensions, power and thermal characteristics, and compatibility, providing practical guidance for data center and network infrastructure planning. In the rapidly evolving landscape of high-performance computing and AI infrastructure, NVIDIA optical transceivers have emerged as critical components for enabling next-generation 800G network deployments. This guide gives you the complete picture. Our study of OSFP transceiver technology will begin with basic concepts and continue until we reach advanced technical. Today's mainstream 400G optical modules use three primary form factors: QSFP-DD, OSFP, and QSFP112. This article provides a comprehensive comparison of the three. In 2025, the optical transceiver market has shifted decisively. On the path to the 400G era, different form factors act as distinct engines, delivering.

Article Content

Jul 14, 2025

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.

Oct 23, 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 03, 2025

NVIDIA Optical Transceivers: QSFP-DD/OSFP 800G Solutions ...

Complete guide to NVIDIA optical transceivers covering QSFP-DD and OSFP form factors for 800G networks. Learn about compatibility, deployment best practices, and selection ...

Oct 11, 2025

Complete Guide to OSFP Transceiver: 400G/800G/1.6T

Master OSFP transceiver technology with our comprehensive guide. Covers 400G/800G/1.6T speeds, OSFP vs QSFP-DD comparison, thermal management, and AI ...

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QSFP-DD vs OSFP: Choosing the Right Form Factor for Modern Data ...

A practical comparison of QSFP-DD vs OSFP for 400G and 800G deployments, with guidance for AI and high-density data center architectures.

Oct 28, 2025

QSFP-DD vs OSFP: 400G/800G Form Factor Comparison | Ascent ...

Compare QSFP-DD vs OSFP form factors for 400G/800G networks. Learn compatibility, power specs, and which optical transceiver fits your data center infrastructure.

Dec 02, 2025

OSFP vs QSFP-DD vs QSFP112 - Choosing the Best Optical Module

This article will break down the differences between OSFP, QSFP-DD, and QSFP112, explaining their features, advantages, limitations, and best-use scenarios — in clear, simple terms.

May 04, 2026

QSFP-DD vs OSFP: Key Differences and Use Cases Guide

Compare QSFP-DD vs OSFP in terms of design, power, cooling, and performance. Learn which form factor fits modern 400G and 800G networks.

May 19, 2026

400G Optical Module Form Factors: QSFP-DD vs. OSFP vs.

This article provides a comprehensive comparison of the three - QSFP-DD vs. OSFP vs. QSFP112.

Aug 31, 2025

800G OSFP vs QSFP-DD: How to Choose the Right Optical ...

This article analyzes 800G OSFP and QSFP-DD form factor's technical differences, application scenarios, and deployment considerations to help data centers and high-performance ...

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