

Core Switch QSFP-DD Price Performance Ratio



AI Overview

QSFP-DD core switches offer high port density and 400G/800G bandwidth, with price/performance heavily influenced by module type, vendor, and power class. Cost Overview QSFP-DD modules vary widely in price depending on type and vendor. Short-reach SR8 modules, commonly used for in-rack connections, cost \$1,400–\$1,800 from reputable third-party vendors, representing the most cost-effective entry point for 400G adoption. In contrast, long-haul coherent ZR+ modules from OEMs can exceed \$130,000, reflecting their specialized performance for Data Center Interconnects (DCI) and extended distances. DR4 and FR4 modules bridge intermediate distances and typically fall between SR8 and ZR+ in cost. Performance Considerations QSFP-DD switches support 8 lanes of 50 Gbps PAM4 signaling, delivering 400 Gbps per port, with some future-proofing for 800G environments. Modern modules consume 10–25W per port, depending on class, which affects both power efficiency and cooling requirements. Switches must be designed to handle these power classes; older line cards may fail to support high-power modules, reducing effective performance. QSFP-DD also enables high port density by adding a second row of electrical contacts, allowing more 400G ports per chassis compared to QSFP28. Price/Performance Optimization Module Selection: SR8 modules provide the best cost/performance ratio for short-distance, high-density deployments, while DR4/FR4 modules balance cost and reach for cross-row or campus links. Vendor Choice: Third-party modules often deliver similar performance at a fraction of OEM cost, but compatibility and warranty considerations must be verified. TCO Analysis: Evaluating total cost of ownership over 3–5 years, including power, cooling, and potential volume discounts, is critical for accurate price/performance assessment. Future-Proofing: QSFP-DD switches support...

Article Content

400G QSFP-DD and OSFP Specifications

The QSFP-DD has a real advantage of being natively backward compatible with the QSFP form factor, while the OSFP seems to have more robustness (heat dissipation, space for components)

400G QSFP-DD TRANSCEIVER Price

Check 400G QSFP-DD TRANSCEIVER price from the latest Cisco price list 2022.

400G Data Center Switches

The Edgecore DCS510 is a high-performance spine switch for data centers, offering line-rate L2 and L3 switching across 32 QSFP-DD ports. Supports 100/400 GbE

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

The core difference between SFP and QSFP is lane count: SFP is a single-lane form factor (1G-25G), while QSFP aggregates 4 (or more) lanes to reach 40G, 100G, 200G and 400G (QSFP-DD). Choose

QSFP+ vs. QSFP28 vs. QSFP56 vs. QSFP-DD vs. QSFP112: What

Confused by QSFP form factors? Read our technical breakdown of QSFP+, QSFP28, QSFP56, QSFP-DD, and QSFP112 speeds, NRZ vs. PAM4 modulation, and compatibility traps.

How to Choose QSFP Modules: 40G, 100G & QSFP-DD Guide

Learn how to choose QSFP modules for 40G, 100G, QSFP28, QSFP56, and 400G QSFP-DD networks. Compare speed, distance, fiber type, compatibility, and LINK-PP products.

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a wide variety of super high

SFP vs QSFP: Which Module Does Your Switch Need?

Struggling to choose between SFP and QSFP? Compare speed, density, and cabling costs side-by-side. Discover the best use cases for SFP vs QSFP.

Cisco QSFP-DD800 Transceiver Modules Data Sheet

The Cisco QSFP-DD800 modules introduce 8x100G and 2x400GGBASE Quad Small Form-Factor Pluggable Double-Density (QSFP-DD)

Edgecore 32 x 800G QSFP-DD800 switch ports with

QSFP-DD800 switch ports also support 1 x 400 GbE (50G PAM4), 1 x 100 GbE (NRZ), and via breakout cables 2 x 200 GbE, 4 x 100 GbE, or 8 x 50 GbE. Up to

QSFP-DD-Preisliste 2026: Kosten

Preisübersicht für QSFP-DD mit Kosten für 400G/800G-Module, Vergleich von OEM- und Drittanbieterprodukten, Mengenrabatten und einer 3-Jahres-TCO-Analyse für Käufer von

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

This guide delivers clear, accurate pricing data. It breaks down the current costs for 400G and 800G modules, provides an objective comparison between OEM and third-party products,

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

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+.

Cisco 400G QSFP-DD Cable and Transceiver Modules Data Sheet

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. QDD-400-CuxM cables are suitable for very short links and offer a cost-effective way to establish a 400-Gigabit link between QSFP-400G

HPE Aruba Networking CX 9300S 32p QSFP28 100G

The switch series provides high performance switching up to 25.6 Tbps in a 1U fixed configuration supporting 32 ports of 100/400GbE Dynamic VXLAN with BGP

QSFP56 vs. QSFP28: Key Differences, Speed, and Use Cases

Often supported mechanically. Many QSFP56-capable switches are designed to be backward compatible with QSFP28 modules, provided the host PHY and firmware support 25G NRZ operation.

400G QSFP-DD Price

Join An IT Community Designed to Foster Business Growth. 400G QSFP-DD Transceiver, 400GBASE-DR4, MPO-12,500m parallel. 400G QSFP-DD Transceiver, 400G-FR4, Duplex LC, 2km Duplex SMF.

QSFP56 Transceiver: Complete 200G Guide (2026) | FiberMall

Learn about QSFP56 200G transceivers: module types, power consumption, PAM4 signaling, AI cluster use cases, and QSFP-DD comparison. Includes switch compatibility matrix.

64-port 400G QSFP-DD 25.6T Ethernet 2U Switch for AI Data Center

The N9200-64DC is a high-performance, high-density fixed switch suitable for high-end data centers and AIGC intelligent computing scenarios. Equipped with 64x 400GE ports supporting wire-speed

The Ultimate Guide to QSFP Cables: What You.

The Ultimate Guide to QSFP Cables: What You Need to Know? SFP vs. SFP+ vs. QSFP Key Get specs & pricing from ABPTTEL — expert support

MikroTik · CRS804 DDQ

A compact 1U 400G switch built for AI clusters, storage fabrics, and high-speed aggregation, featuring four 400G QSFP56-DD ports, dual 10 Gigabit Ethernet,

QSFP-DD vs OSFP vs QSFP56 vs QSFP112 | FiberMall

QSFP-DD vs QSFP (QSFP+/QSFP28) The new QSFP-DD interface expands on the QSFP pluggable form factor, a widely adopted four-lane

Contact Us

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