

Nigerian Core Switch QSFP-DD



Overview

The CRS804 DDQ is designed for long-term reliability and low cost of ownership, supported by hot-swap power supplies (included!), robust cooling, and low power consumption that reaches only 123 W at full load with optics installed. A perfect building block for small to medium AI. This guide provides a comprehensive overview of QSFP-DD compatible switches across major vendors, explains the fundamentals of backward compatibility at the port level, and outlines how to verify transceiver compatibility before procurement. The Cisco 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a wide variety. Scaling hyperscale cloud facilities, AI computing clusters, and Data Center Interconnects (DCI) demands more than just raw speed; it requires elite thermal management and zero-packet-loss signal integrity. SFP-family modules are best for lower-speed edge and server links, QSFP-family modules serve higher-density aggregation and spine-leaf networks, and QSFP-DD is designed for 400G. His switch ports contained twelve 800G QSFP-DD modules, which remained inactive. The maintenance window reached its midpoint. His rollback plan assumed the old modules would still work—they did—but that didn't solve his problem. His Nexus switches ran. The QSFP-DD Series offers up to 400Gbps transmission speeds and features 1-by cages. 4 Tbps aggregate bandwidth in a single switch slot.

Article Content

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-DD Series

QSFP-DD can enable up to 14.4 Tbps aggregate bandwidth in a single switch slot. QSFP-DD electrical interfaces will employ eight lanes that operate up to 25 Gbps NRZ modulation or 50 Gbps PAM4 ...

SFP vs SFP+ vs QSFP vs QSFP28 vs QSFP-DD: Upgrade Guide

Compare SFP, SFP+, QSFP, QSFP28, and QSFP-DD by speed, lane count, compatibility, breakout options, power, and upgrade path.

QSFP-DD Compatible Switches: Complete 2025 Vendor Guide

Find which switches support QSFP-DD modules. Our 2025 guide covers Cisco, Arista, Juniper and NVIDIA platforms with backward compatibility tips.

QSFP-DD

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 ...

MikroTik · CRS804 DDQ

The CRS804 DDQ is a compact and reliable 400 Gigabit switch designed for modern AI workloads and next-generation network upgrades. With four 400G QSFP-DD ports and dual 1/10G Ethernet, it ...

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).

Specification – QSFP-DD

July 11, 2019 – QSFP-DD Hardware Specification for QSFP DOUBLE DENSITY 8X PLUGGABLE TRANSCEIVER – Rev 5.0
May 8, 2019 – Common Management Interface Specification – Rev 4.0

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

WolonFiber manufactures strictly MSA-compliant 100G QSFP28 and 200G QSFP56, QSFP-DD, and heavy-duty CFP2 optical interconnects optimized for ultra-dense Spine-Leaf topologies and long-haul ...

SFP vs SFP+ vs QSFP vs QSFP28 vs QSFP-DD: ...

Compare SFP, SFP+, QSFP, QSFP28, and QSFP-DD by speed, lane count, compatibility, breakout options, power, and upgrade path.

Complete QSFP-DD Compatibility Guide for Data Centers

Complete QSFP-DD compatibility guide with switch matrix, firmware requirements, and MSA compliance. Verify module compatibility before you buy.

Contact Us

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