

Uganda Aggregation Switch QSFP-DD



Overview

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, and RouterOS v7. 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. With hot-swap power supplies, robust cooling, and low power consumption, it delivers ultra-high bandwidth, wire-speed. The Cisco family of QSFP-DD800 modules leverages the cornerstone of high-speed, high-density pluggable form factors, QSFP. 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. 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.



Article Content

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

QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G PAM-4, up to 200, 400 or 800 Gbps aggregate. Backwards

QSFP-DD Compatible Switches: Complete 2025

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

Backward Compatibility: QSFP-DD/QSFP28/QSFP+/SFP+

Therefore, QSFP-DD quadruples aggregate switch bandwidth while maintaining the port density. Also, QSFP-DD is backward compatible with the current QSFP form factor types, including

Understanding the QSFP-DD Standard: The Foundation of 400G

What Is the QSFP-DD Standard? 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

What is QSFP-DD Transceiver: A Beginner Guide

QSFP-DD transceiver is becoming increasingly popular in data center applications nowadays. In this beginner's guide, we will take a closer look at the

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

A 2026-ready, engineer-focused guide comparing SFP, SFP28, QSFP28, QSFP-DD and OSFP transceivers. Learn decision rules, deployment

Cisco QSFP-DD800 Transceiver Modules Data Sheet

The QSFP-DD800 provides the industry's highest bandwidth density of any transceiver module and backward compatibility to lower-speed QSFP pluggable modules and cables.

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

SFP, SFP+, QSFP, QSFP28, and QSFP-DD differ in bandwidth, lane architecture, physical size, power draw, and upgrade path. SFP-family modules

H3C S9855 DataCenter Switches

The switch offers high-density 400G/200G/10G ports and a forwarding capacity as high as 16Tbps, which enables the switch to provide high-density server access

QSFP-DD Product Family » Acacia

Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links

The Ultimate Guide to Cisco QSFP Optical Transceiver

Regarding applications, the QSFP-4X10G-LR-S is very useful for inter-switch connectivity because it provides quick connections between

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

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

Quad Small Form-Factor Pluggable (QSFP) modules are multi-lane high-speed optical transceivers used in modern data centers. Unlike single-lane SFP modules introduced in the

400G Optical Selection Guide: QSFP-DD vs QSFP28 vs

Compare QSFP-DD, QSFP28, and OSFP form factors. Learn about compatibility, power constraints, migration TCO, and data center selection

QSFP-DD vs OSFP: What Are the Differences?

The transmission rate of QSFP-DD form factor could enable up to 14.4 Tbps aggregate bandwidth in a single switch slot so as to cope with rapid data center

400G Fabric Cabling Guide: QSFP-DD to 4x100G

Guide to 400G fabric cabling using QSFP-DD→4x100G QSFP56 breakout DACs: rack routing, port mapping, labeling, bring-up, and validation for

QSFP-DD Optical Transceivers for High-Speed

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or placed

DCS-7342-32D2X Layer 3 32-Port 400G QSFP-DD + 2-Port 10G

The DCS-7342-32D2X is a high-performance Layer 3 data center switch engineered for AI-driven, high-speed and scalable environments. With a high-density configuration of 32 x 400G QSFP-DD ports, it

QSFP-DD Connectors | High Speed I/O | Amphenol

Amphenol's QSFP-DD interconnect system delivers high-speed performance with exceptional signal integrity. With 76 contacts per port, eight

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, and RouterOS v7.

The Ultimate Guide to SFP, SFP+, SFP28, QSFP+, and QSFP28:

SFP and SFP+ remain relevant for legacy and low-speed environments, while SFP28 has become the optimal choice for modern 25G server access due to its efficiency and ASIC alignment.

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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