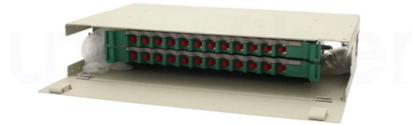


Outbound Core Switch QSFP-DD



Overview

The QSFP-DD Series offers up to 400Gbps transmission speeds and features 1-by-cages. 4 Tbps aggregate bandwidth in a single switch slot. 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. Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double Density (QSFP-DD) module, connector and cage system. 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. Aruba 9300 switch series limit the use of QDD optics/AOCs if running at low-line AC Voltage (100VAC-125VAC). Use High-line voltage to install more than 9 products in the 9300 32D These 200G Q-DD AOCs automatically configure a Q-DD port to operate in 4-channel QSFP56 mode.



Article Content

Aug 21, 2025

The Ultimate Guide to QSFP28-DD: Features, Benefits, and Applications

Discover QSFP28-DD (200G/400G) modules: features, benefits, and applications in data centers, AI/HPC, and telecom. Compare and learn how to choose the right.

Sep 23, 2025

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

Jun 29, 2025

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 12, 2025

Understanding Backward Compatibility with QSFP-DD,

Network improvements and transceiver functionality are inextricably related to backward compatibility. A thorough explanation of backward

Dec 18, 2025

HPE Networking Comware Data Center Switch 24-port 100/200G

Agile, scalable switching—from edge to core, across data center, campus and branch.

Jun 22, 2026

QSFP-DD Hardware

QSFP-DD supports up to 400 Gb/s in aggregate over an 8 x 50 Gb/s electrical interface. The cage and connector design provides backwards compatibility to QSFP28 modules which can be inserted into a

Apr 23, 2026

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

Direct OEM/ODM manufacturer of 100G/200G transceivers for AI clusters & hyperscale cloud. 100% tested 100G QSFP28, 200G QSFP56, QSFP-DD & CFP2 solutions.

Apr 09, 2026

Choosing 400G NICs by Network Interface: OSFP,

However, with multiple form factors—QSFP-DD, QSFP112, and OSFP—each tailored to specific deployment and upgrade needs, choosing the

Jul 15, 2025

Cisco QSFP-DD Pluggable Open Line System (QDD

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that provides a simple yet powerful open line

Apr 13, 2026

QSFP-DD Optical Transceivers for High-Speed Connections

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or placed between modules. This flexibility enables switch and routing

Mar 03, 2026

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

Nov 26, 2025

Models, specifications, and compatibility

These 200G Q-DD AOCs automatically configure a Q-DD port to operate in 4-channel QSFP56 mode. Because of the 2xQSFP28 ends, this limits the Q-DD

Oct 02, 2025

QSFP-DD vs OSFP: What Are the Differences?

Consistent with the thermal capacity, OSFP's power consumption is generally higher than QSFP-DD. However, as we all know, the lower the power consumption, the

Jun 01, 2026

Comprehensive Guide to QSFP – MapYourTech

Enterprise campus networks employ QSFP transceivers for building-to-building connectivity and core switching infrastructure. Building Interconnects:

Apr 17, 2026

Cisco 400G QSFP-DD Cable and Transceiver Modules

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

Sep 20, 2025

Models, specifications, and compatibility

*Wattage may impact operating temperature for select switches. Aruba 9300 switch series limit the use of QDD optics/AOCs if running at low-line AC Voltage

Jan 20, 2026

QSFP28 modules

QSFP-DD modules Always refer to the Datasheet or QuickSpecs for the switch product to see the current list of supported transceivers. Datasheets/QuickSpecs do not usually detail specific notes for

Sep 25, 2025

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.

Dec 05, 2025

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

Apr 05, 2026

40G QSFP: The Core of Optical Network Interconnection

A: Fiber cables in association with a QSFP-DD module facilitate the transmission of optical signals within a network over long distances. Moreover,

Sep 27, 2025

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.

Sep 05, 2025

400G QSFP-DD Cable and Transceiver Modules Data Sheet | FS

Product overview The FS® 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a wide variety of super high-density transceiver modules and the flexibility

Contact Us

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