

Belgian Independent Switch QSFP-DD



Overview

The QSFP-DD Series offers up to 400Gbps transmission speeds and features 1-by-cage. 4 Tbps aggregate bandwidth in a single switch slot. 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. QSFP-DD extends the use. 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. QSFP-DD electrical interfaces will employ eight lanes that operate up to 25 Gbps NRZ modulation or 50 Gbps PAM4 modulation, providing. Amphenol's QSFP-DD high-speed connector family features a scalable, high-performance interconnect platform with 76 contacts on a 0.8mm pitch and a dual-mating interface. This. Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D. The QSFP-DD interconnect system is comprised of a 76-position, 0.8mm pitch. The cage and connector design provides backwards compatibility to QSFP28.

Article Content

Feb 16, 2026

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

Feb 26, 2026

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

The QSFP-DD family supports legacy QSFP channels on the front interface and four additional channels on the rear interface. This interconnect

Feb 05, 2026

QSFP-DD Optical Module Overview: What is the differ?

This article will introduce the next generation optical module in detail, QSFP-DD, also known as quad small factor pluggable, and this article will also

Nov 04, 2025

QSFP Double Density (DD) Interconnect System

Amphenol Commercial QSFP Double Density (DD) Interconnect System is backwards mating compatible with QSFP products. The connectors

Dec 20, 2025

Do You Know the Differences Between SFP, SFP+,

Almost every IT manager is aware of SFP or SFP+ optics, independent devices connected daily to a switch or network device. Do you also have

Aug 31, 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.

Jun 16, 2026

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

Dec 11, 2025

QSFP-DD vs OSFP: Which 400G/800G Form Factor

Today, two form factors dominate: QSFP-DD (Quad Small Form Factor Pluggable - Double Density) and OSFP (Octal Small Form Factor)

Jul 16, 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

Nov 06, 2025

QSFP28 modules

QSFP-DD products cannot be used in QSFP56, QSFP28, or QSFP+ ports. Although the products may appear to be the same physical size, QSFP-DD products

Feb 09, 2026

QSFP-DD (Double Density) Interconnect System and Cable Assemblies

QSFP-DD Interconnect System's 8-lane electrical interface transmits up to 28 Gbps NRZ or 56 Gbps PAM-4, up to 200 or 400 Gbps aggregate, with the same footprint as QSFP Interconnects, making

May 13, 2026

800G Module Packaging: QSFP-DD or OSFP, Which

Discover the differences between 800G QSFP-DD and OSFP modules. Learn which packaging offers the best performance, heat dissipation,

Mar 10, 2026

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 40G QSFP+,

Nov 06, 2025

Understanding SFP, SFP+, QSFP and Beyond:

Discover the differences between SFP, SFP+, and QSFP transceivers, and learn how to select the best solution for your network. Explore their features,

Oct 30, 2025

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

It is compliant with the IEEE802.3bs and QSFP-DD MSA. As its name implies, compared to its predecessors of 4-lane QSFP28 and QSFP, QSFP-DD doubles the number of high-speed electrical

Nov 04, 2025

QSFP DD Connectors

QSFP DD Connectors Amphenol ICC's QSFP DD interconnect system is comprised of a 76-position, 0.8mm pitch connector built for use in high speed serial applications. Each port supports up to 400

Sep 23, 2025

SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD,

Confused about SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD, QSFP112 vs OSFP? We've got you covered. Read to discover the key

Feb 24, 2026

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

Amphenol's QSFP-DD high-speed connector family features a scalable, high-performance interconnect platform with 76 contacts on a 0.8mm

Oct 31, 2025

QSFP-DD Wiki and Comparison of QSFP-DD vs OSFP and QSFP

QSFP-DD, or QSFP56-DD, stands for Quad Small Form Factor Pluggable Double Density. Based on the design of QSFP, the form factor of QSFP-DD is identical to the previous

Jul 03, 2025

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

Nov 24, 2025

QSFP DD Connectors

Amphenol Communications Solutions' QSFP DD interconnect system is comprised of a 76-position, 0.8 mm pitch connector built for use in high-speed

Mar 18, 2026

Comprehensive Guide to QSFP – MapYourTech

QSFP transceivers combine four independent electrical channels into a single compact form factor, enabling scalable bandwidth from 40 Gbps to 1.6

Mar 10, 2026

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

By deploying QSFP-DD switches today, an organization can run legacy 100G QSFP28 modules now. When the business scales up for AI

Jul 27, 2025

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

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

Dec 10, 2025

Differences Between QSFP-DD and QSFP+ / QSFP28 /

QSFP-DD ports incorporate a riding heatsink, which can be sized independently of the optical module and is positioned on top of or between

Jun 23, 2026

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

Apr 27, 2026

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.

Jan 17, 2026

All About QSFP Cables, Connectors, and More

Production plans are in place for 800G OSFP and QSFP DD cable assemblies, giving Amphenol an advantage over the competition when it comes

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://elagage-lorrain.fr>

Email: sales@elagage-lorrain.fr

Phone: +33 6 47 82 19 35

Address: 15 Rue de la République, 69002 Lyon, France

This document is for informational purposes only. Specifications subject to change without notice.

