

CE Certified LPO Optical Module QSFP-DD



Overview

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe[®] Gen 5.0 over optical link, enabling scalable server disaggregation and efficient rack-to-rack interconnects ideal for AI/ML and rack-scale data center expansion. With its compact form factor, backward. At the heart of this leap forward lies QSFP-DD (Quad Small Form Factor Pluggable Double Density) — an enhanced version of the proven QSFP form factor, designed to double the lane density and support data rates up to 400Gbps and beyond. The QSFP-DD specification, maintained by the QSFP-DD. 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.



Article Content

Nov 02, 2025

QSFP-DD Optical Transceivers Unlocking Faster

The QSFP-DD (Quad Small Form-Factor Pluggable Double Density) optical transceiver is a revolutionary advancement in high-speed data

Jan 28, 2026

LPO QSFP-DD800 2x400G FR4 Optical Transceiver

LQSFP-DD-800G-2FR4L LPO QSFP-DD800 2x400G FR4 PAM4 CWDM4 2km DOM Dual Duplex LC SMF Optical Transceiver Module

May 23, 2026

STC-40028 | 800G QSFP-DD LPO SR8 Optical Transceiver

The STC-40028 from Swedish Telecom Opto's LPO Series is a high-performance 800 Gb/s QSFP-DD SR8 optical transceiver optimized for short-reach, high-bandwidth data-centre and AI workloads.

Jul 14, 2025

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

The QSFP-DD standard represents the pinnacle of optical interconnect evolution — enabling unprecedented bandwidth density, efficiency, and scalability for modern data centers.

Jun 19, 2026

QSFP-DD Linear Pluggable Optics (LPO)

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe® Gen 5.0 over optical link, enabling

Apr 13, 2026

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

Cisco offers a comprehensive range of pluggable optical modules in the Cisco® pluggables portfolio. The wide variety of modules gives you flexible and cost-effective options for all types of interfaces.

May 23, 2026

Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics

The high performance and low power of the 400G QSFP-DD ULH module make it an optimal choice to extend Routed Optical Networking use

Sep 21, 2025

[QSFP-DD Optical Transceivers - MapYourTech](#)

QSFP-DD is an advanced hot-pluggable optical transceiver form factor that doubles the bandwidth density of traditional QSFP28 modules by

Sep 27, 2025

[QSFP-DD vs OSFP vs QSFP112: Which 400G Module](#)

400G optical module packaging comparison: Choose QSFP-DD, OSFP, or QSFP112 for data center, AI, or HPC based on compatibility, power, and cost. Optimize

Jul 30, 2025

[Understanding the QSFP-DD Standard: The Foundation of 400G](#)

The QSFP-DD was conceived by the QSFP-DD MSA group, including Cisco, Intel, Broadcom, and Mellanox (now NVIDIA). The goal was to enable 400G and 800G speeds within the

May 19, 2026

[Exploring the Benefits and Applications of 800G QSFP-DD Optical Modules](#)

Discover the benefits and applications of 800G QSFP-DD optical modules, a cutting-edge solution for high-speed data transmission. Learn about its features, including high-speed

Oct 30, 2025

[QSFP-DD TRANSCEIVERS for 400G and 800G | Smartoptics](#)

Smartoptics QSFP-DD transceivers provide cost-efficient 400G and 800G optical networking. QSFP-DD (Quad Small Form-Factor Pluggable Double Density) transceivers double the number of high-speed

Oct 26, 2025

[Common 400G QSFP-DD Transceiver Types in the Market](#)

400G QSFP-DD optical module is a high-speed hot-pluggable transceiver. Here it will help you learn what 400G QSFP-DD optical modules exactly are, and the

Jul 30, 2025

[QSFP-DD Product Family » Acacia](#)

Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D Siliconization. Supports an

May 24, 2026

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent Optics Modules

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco Transceiver Modules Compatibility Matrix.

Nov 16, 2025

Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics

The Cisco 400G QSFP-DD Ultra Long-Haul Coherent Optics Module enables 400G traffic anywhere over dense wavelength division multiplexing

Aug 18, 2025

800G LPO QSFP-DD800 Optical Transceiver Modules | AscentOptics

Introducing our 800G LPO QSFP-DD800, a pinnacle in high-speed connectivity. Infused with Linear-Drive Technology, it transforms short-range, high-bandwidth, low-power, and low-latency applications.

Jul 26, 2025

Comprehensive Guide to 400G/800G QSFP-DD Optical

From a technological perspective, both 400G and 800G QSFP-DD modules benefit from significant advancements. Silicon photonics has played a

Dec 10, 2025

QSFP-DD Optical Transceivers - MapYourTech

Linear Pluggable Optics (LPO): LPO eliminates retiming and DSP functions in short-reach applications, significantly reducing module power

Jun 06, 2026

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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