

Solution Optical Transmitter 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. © 2023 Cisco and/or its affiliates. As data traffic continues. The synergy between DWDM (Dense Wavelength Division Multiplexing) and routing technology stands as the linchpin for the realization of the 400G QSFP-DD DWDM optical module. In recent times, the advent of 400G DWDM coherent pluggable optical modules has spurred the development of coherent DWDM. 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.



Article Content

Nov 16, 2025

Overview of 400G QSFP-DD Types and Connection

Discover the various types of 400G QSFP-DD transceivers and their connection solutions for efficient data transfer. Explore their benefits and applications in

Sep 15, 2025

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

Jul 15, 2025

QSFP-DD TRANSCEIVERS for 400G and 800G

QSFP-DD is the most widely adopted form factor for 400G, with great potential for 800G. While QSFP-DD prioritizes backward compatibility, OSFP's larger surface

Jun 15, 2026

A Deeper Dive into 400G QSFP-DD Transceiver with

This paper aims to unravel the intricacies of 400G DWDM coherent pluggable optical modules, driving advancements in coherent DWDM products for

May 03, 2026

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

Nov 13, 2025

NVIDIA Optical Modules: QSFP-DD/OSFP 800G Solutions,

Explore NVIDIA's 800G optical modules with QSFP-DD and OSFP form factors. Learn about performance specifications, compatibility features, and application scenarios for AI clusters

Apr 11, 2026

What is an Optical Module?

Comparatively speaking, QSFP-DD packaging is smaller (similar to the traditional 100G optical module QSFP28 packaging), which is more suitable for data center

Nov 08, 2025

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

Compare SFP, SFP+, QSFP+, QSFP28, and QSFP-DD optical transceivers. Learn differences, speeds, and best use cases for data center networks.

Aug 08, 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

Jul 25, 2025

Small Form-factor Pluggable

40 Gbit QSFP+ transceiver showing the optical fibre connection Quad Small Form-factor Pluggable (QSFP) transceivers are available with a variety of transmitter

Feb 15, 2026

Optical Module & Fiber Optic SFP Module Factory Manufacturer

The typical applications for 800G/400G NVIDIA multi-mode optical modules are illustrated below: The optical modules involved are: the 800G OSFP SR8 (Dual MPO) and the breakout 400G

May 27, 2026

800G LPO QSFP-DD800 Optical Transceiver for AI/HPC Data Centers

Explore 800G LPO QSFP-DD800 optical transceivers designed for AI and HPC data centers. Delivering ultra-low latency, power efficiency, and reliable high-speed networking.

May 04, 2026

QSFP28 Transceiver: Complete 100G Connectivity Guide (2026)

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot 100G QSFP28 optics.

Oct 22, 2025

QSFP-DD Optical Transceivers – MapYourTech

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative advancement in optical transceiver technology,

Feb 03, 2026

QSFP-DD Optical Transceivers for High-Speed Connections

Network operators are looking for cost-optimized optical solutions that provide increased density and reduced power consumption—across high-speed as well as legacy ports—without sacrificing

Sep 26, 2025

NVIDIA Optical Modules Buying Guide: QSFP-DD vs OSFP 800G Solutions ...

Comprehensive guide to NVIDIA optical modules covering QSFP-DD and OSFP 800G solutions. Learn about compatibility, deployment considerations, and technical specifications for

Jun 21, 2026

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

Jul 13, 2025

Generic Compatible 400GBASE-SR8 QSFP-DD

NADDOD Generic Compatible 400G QSFP-DD SR8 optical transceiver modules are designed for AI and HPC data center 400G Ethernet networks. This 400G module

Jun 11, 2026

850 nm Fibre Optic Transmitters, Receivers, Transceivers

850 nm Fibre Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for 850 nm Fibre Optic Transmitters, Receivers, Transceivers.

Dec 29, 2025

400G OSFP112 to QSFP-DD Active Optical Cable (0.5-100m)

400G OSFP112 to QSFP-DD Active Optical Cable (0.5-100m) - 0.5. High-quality optical transceiver from EDGE Optical Solutions.

May 22, 2026

QSFP-DD Linear Pluggable Optics (LPO)

QSFP-DD LPO TRANSCEIVER DESIGNED FOR PCIE® GEN 5.0 DATA RATES Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver

Jun 28, 2025

400G-AOC-QSFP-DD-2xQSFP56-0.5

400G QSFP-DD to 2x200G QSFP56 AOC (0.5-100m) - 0.5. High-quality optical transceiver from EDGE Optical Solutions.

Aug 30, 2025

Optical Module Package Market 2025

However, price sensitivity in developing markets often delays the adoption of premium optical solutions, and trade restrictions occasionally impact regional dynamics. South America In South America, the

Sep 15, 2025

QSFP-DD TRANSCEIVERS for 400G and 800G | Smartoptics

Two efficient and compact solutions tailored for 400G QSFP-DD breakout are the DCP 404 muxponder and the DCP-1203 transponder. A single 400G QSFP-DD transceiver can break out into four 100G

Jul 16, 2025

Extreme Networks Optical Transceivers: QSFP-DD/OSFP Technical

As network speeds accelerate to 400G and 800G, the selection of appropriate optical transceivers becomes critical for ensuring optimal performance and interoperability. Extreme

Jun 12, 2026

NVIDIA/Mellanox MMA4Z00-NS-T Compatible Coherent

Can I use 800G OSFP optical modules for 800G QSFP-DD ports? No, OSFP and QSFP-DD are different size packages, the physical size is not the same, so they

Jul 30, 2025

Optical Transceivers | Fiber Optic Transceivers | Form

Optical Transceivers From 10G to 1.6T, Amphenol's optical transceivers deliver scalable, high-performance solutions across all major form

Contact Us

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