

# OEM Active Optical Module QSFP-DD



## Overview

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe<sup>®</sup> 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. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+. Standard procurement guides list endless catalog numbers without valuable context, overwhelming engineers with technical specifications while completely obscuring actual market costs. Many suppliers list compatibility with brands such as Arista, Cisco, Broadcom, NVIDIA and Juniper. Pre-programming the module's EEPROM / serial number. 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

Jan 23, 2026

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

Dec 30, 2025

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.

Mar 07, 2026

QSFP-DD Product Family » Acacia

OpenZR+ QSFP-DD Pluggable Coherent Optical Module Metro/regional Ethernet data center | Service provider network interconnects Key Features High

Jun 20, 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

Jul 07, 2025

Optical Components

Provides corporate revenue market share by end-market segment as well as the detailed market size for select optical components.

Aug 15, 2025

OEM 800 G QSFP-DD Optical Modules: Technical Overview and

For network vendors or data-centre buyers requiring 800 G QSFP-DD OEM optical modules, the key differentiators are brand compatibility, correct coding/EEPROM, accurate labeling and robust

May 27, 2026

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

Active Optical Cables (AOC): Incorporate real transceivers with fiber optics, providing longer-distance connectivity while remaining lightweight and flexible. These QSFP-DD cable solutions ensure

Apr 01, 2026

Wholesale Optical Transceivers Module | 100G

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical

Jul 24, 2025

QSFP-DD-Fehlerbehebungsleitfaden: Schnelle Behebung von

QSFP-DD troubleshooting guide covering module detection failures, link flapping, CMIS errors, FEC mismatches, and thermal issues with vendor-specific diagnostic commands.

Sep 02, 2025

SFP, QSFP, QSFP-DD, OSFP Active Optical Cable Assemblies

Our active optical cable assembly portfolio provides improved cable flexibility and longer reach as compared to both traditional passive copper and emerging active copper (ACC/AEC) solutions,

May 24, 2026

200g ethernet network adapter,Supplier-Fibermall

40G QSFP+ DAC/ACC 25G SFP28 DAC 10G SFP+/XFP DAC Active Optical Cables 800G QSFP-DD AOC 400G QSFP112 AOC 400G QSFP-DD AOC

Jun 19, 2026

Yole Group

Yole Group - Access daily business, market & technology updates in the semiconductor industry, our Analysts' Analysis and Presentations and more

Jul 06, 2025

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+ Cables, MiniSAS Cables, QSFP Cables, XFP Cables, CX4 Infiniband Cables

Jan 15, 2026

Avoid Brand Tax on QSFP Transceivers with WolonFiber

Stop paying the "Brand Tax" on high-speed transceivers. ☐☐☐☐ Whether you are deploying a 40G edge node with QSFP+ or lighting up a new AI cluster with 400G QSFP-DD, the cost of optical modules ...

Feb 26, 2026

AOC, DAC, Fiber Optic Transceivers | One-Stop Shop

Online shopping. w/24h-delivery, 7Days & Refund Guarantee. CE, RoHS and ISO9001 Certified. SFP+ Cables, QSFP+ Cables, MiniSAS Cables, XFP Cables,

Jun 30, 2025

QSFP-DD Troubleshooting Guide: Fix 400G/800G Link Issues Fast

QSFP-DD troubleshooting guide covering module detection failures, link flapping, CMIS errors, FEC mismatches, and thermal issues with vendor-specific diagnostic commands.

Dec 12, 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.

Jan 26, 2026

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

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

Feb 14, 2026

#networking #sfp #qsfp #fiberoptics #networkengineering # ...

☐☐ One comment completely changed the direction of a networking discussion this week. I recently shared a post about how many “optics problems” are actually caused by firmware, compatibility ...

Feb 10, 2026

FinancialContent

Key components of the company's expanded portfolio include: High-Speed Optical Transceivers: A robust lineup of 400G and 800G optical modules (QSFP-DD/OSFP) that ensure the

May 06, 2026

400G QSFP-DD Cable and Transceiver Modules Data Sheet

400G QSFPDD active optical cables (Figure 10) are designed for use in 400 Gigabit Ethernet links over OM4 multimode fibers, and contain eight multi-mode fibers (MMF) optic transceivers per end, each

Nov 11, 2025

#### Pluggable Optical Module Market Research Report 2034

The integration of coherent optics into pluggable form factors, particularly the emergence of coherent QSFP-DD and OSFP modules, is democratizing long-haul transmission capabilities, allowing

Jul 19, 2025

#### 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.

Apr 07, 2026

#### SFP Optical Transceivers: How Pluggable Optics Are Reshaping

Compared to older GBIC (Gigabit Interface Converter) modules that preceded them, SFP transceivers occupy roughly half the physical space while delivering equal or superior performance.

Jun 22, 2026

#### SFP, SFP+ & QSFP Compatibility Guide: Aruba, Juniper, Fortinet

Blue Cable Co compatible transceivers for Aruba, Juniper, Fortinet, Arista & more. Australian stock, 5-year warranty. Compare OEM vs Blue Cable Co.

May 02, 2026

#### SFP+ vs XFP Transceiver Modules: Key Differences Explained

A solid understanding of SFP/QSFP transceiver categories is critical for designing scalable and efficient networks. This breakdown covers key module types—SFP, SFP+, QSFP, QSFP-DD, DAC, AOC, and ...

Dec 16, 2025

#### Optical Transceiver Market Size, Share, Industry Report

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025. The market is expected to grow from USD 15.4 billion in

## Contact Us

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