

# OEM QSFP-DD optical module LPO



## 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. With its compact form factor, backward. 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+. Click to get your 400G transceiver. We provide an industrial-grade reference framework, complying with the latest MSA (Multi-Source Agreement) updates, including SFF-8679 Rev 1.4 (Jan 2025), to help you design robust, scalable optical fabrics. The Master Reference Matrix: SFP vs. QSFP Standards (2025 Edition) This table. OEM 800G QSFP-DD modules must be fully compatible with major switch and NIC vendors to ensure market acceptance and reduced integration risk. Many suppliers list compatibility with brands such as Arista, Cisco, Broadcom, NVIDIA and Juniper. Pre-programming the module's EEPROM / serial number.



## Article Content

Dell networking transceivers and cables

Optical interoperability of SFP, SFP+, SFP28 with selected QSFP and QSFP-DD modules Offers pay-as-you-use model for lower total cost of ownership (TCO) and ease of technology migration

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

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.

400G vs 800G Ethernet: The Future of Data Center Networks

400G Optical Variants The most widely deployed 400G optics are the 400G-QSFP-DD-SR8 (for short reach within a data center row, using 8 × MMF fibers at up to 100m) and 400G-DR4

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.

Arista Optics Modules and Cables

To accommodate an increasing spectrum of applications, Arista offers a wide choice of OSFP, QSFP-DD, QSFP, SFP, SFP-DD and DSFP transceivers and cables that comply with industry standards,

Optical Modules Manufacturer

The optical transceiver market is undergoing an unprecedented super-cycle. Fueled by the explosive growth of AI clusters (NVIDIA GPUs), machine learning fabrics, and 5G/6G network deployments,

Top 10 Optical Transceiver Manufacturers in the World (2026)

Sourcing optics for your data center? Discover the top 10 optical transceiver manufacturers in 2026. Compare global giants and factory-direct OEM alternatives.

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.

## Optical Transceivers / SFP Modules – High-Performance Compatible

Comprehensive Optical Transceivers & SFP Module for High-Speed Networks LINK-PP offers a full range of optical transceivers and SFP module for modern data centers, telecom networks, and

### QSFP-DD Linear Pluggable Optics (LPO)

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

### 400G OSFP/QSFP112/QSFP-DD | Transceiver

FS provides an expanding portfolio of 400G OSFP/QSFP112/QSFP-DD solutions featuring high-performance, high-bandwidth, and backward compatibility. The

### Optical Module Market Analysis and Forecast in 2026

AI computing power has driven explosive growth in the optical module market, with 800G and 1.6T technologies leading the industry transformation.

### Optical Transceivers SFP SFP28 QSFP28 QSFP-DD 1G to 400G Range

Browse optical transceivers from Pivotal Optics including SFP, SFP28, QSFP28 & QSFP-DD modules. 1G to 400G solutions for data centers & networks. Shop now!

Luxshare Precision ( t /Dru1kRh7vZ) released its 2025 Annual ...

- The company confirmed that 800G/1.6T optical modules have entered small-batch supply.
- 800G LRO modules have passed validation with select customers, while 1.6T LRO/LPO and

### Huawei QSPDD-400G-VR4 Optical Module Datasheet

The transmitting end of an optical module converts electrical signals into optical signals, while the receiving end converts optical signals back into electrical signals. Optical modules are classified by

### Understanding Optics Module Trends and Growth Dynamics

The Optics Module market is expanding rapidly, driven by data center proliferation and 5G deployment. Analyze the 12% CAGR to \$42 billion by 2033 with our market insights.

### The Ultimate Reference Table for SFP & QSFP Optical Transceiver ...

The definitive guide to SFP, QSFP, and QSFP-DD standards for 2025. Compare 400G/800G optics, understand PAM4 complexity, and master QSFP-DD vs OSFP deployment

### SFP vs. QSFP: Differences, Use Cases, and How to Choose

Compare SFP vs. QSFP transceivers: key differences, speeds, distances, costs, and expert guidance to choose the right module for your network architecture.

Everything You Need to Know About 800G/1.6T Optical Transceiver

QSFP-DD maintains backward compatibility with existing 400G infrastructure through its 38mm width and 1.6mm pitch, yet struggles with thermal dissipation beyond 14W – a critical

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.

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

Optical Transceiver Solutions for Cloud Performance

Explore advanced optical transceiver technology for hyperscale environments, ensuring performance and reliability across platforms.

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

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

Optical Modules Manufacturer

As enterprises scale and data centers densify, the optics line item is one of the easiest places to save without compromising performance. For networking teams that want feature parity with OEM

QSFP-DD-Preisliste 2026: Kosten

Preisübersicht für QSFP-DD mit Kosten für 400G/800G-Module, Vergleich von OEM- und Drittanbieterprodukten, Mengenrabatten und einer 3-Jahres-TCO-Analyse für Käufer von

Global logistics for optics: 2026 Lead times & Risks

Discover how 2026 global logistics for optics and DSP lead times impact 800G data center deployments. Learn to troubleshoot PAM4, FEC, and CMIS failures.

## Contact Us

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