

## Manufacturer QSFP-DD optical module SFP



### Overview

QSFP-DD Optical Transceivers for High-Speed Connections Cisco offers a comprehensive portfolio of QSFP-DD modules across copper, multimode fiber, and single.

### Key Takeaways

Reliable suppliers for QSFP-DD and SFP optical modules include FS Europe, Pivotal Optics, ESTEL, Cisco, and Edge Optic, offering a wide range of high-performance, MSA-compliant transceivers for data center, enterprise, and telecom networks. Key Suppliers and Offerings



FS Europe provides 100G QSFP28 modules and other high-density, low-power optical transceivers suitable for data centers, high-performance computing, and enterprise networks, supporting Ethernet connectivity and optimized for core and distribution layers . Pivotal Optics offers a broad range of SFP, SFP28, QSFP28, QSFP-DD, and OSFP modules from 1G to 800G. Their modules are MSA-compliant, TAA-certified, and come with a lifetime warranty, supporting InfiniBand and Ethernet, with connector options including LC, MPO, and CS. They provide advanced diagnostics, hot-pluggable designs, and breakout compatibility for flexible deployment . ESTEL manufactures high-performance optical transceivers in Europe and the US, including 100G, 400G, and 800G modules. Their products are designed for data centers, metro transport, and long-haul networks, with rigorous functional and optical testing to ensure reliability, low power consumption, and compliance with industry standards . Cisco supplies a comprehensive portfolio of SFP, SFP+, QSFP28, and QSFP-DD modules, including 400G Digital Coherent QSFP-DD transceivers. These modules support point-to-point transmission up to 120 km with ZR and ZR Plus variants, leveraging silicon photonics and miniaturized 7-nm technology for high-speed, long-distance applications . Edge Optic provides Cisco-compatible SFP, SFP+, QSFP28, and QSFP-DD modules, including FX, LX, ZX, BiDi, CWDM, and DWDM options. Their modules are fully tested, coded for Cisco, and come with a 5-year warranty, supporting both short-range and long-range deployments .

#### Considerations When Choosing a Supplier

- **Compatibility:** Ensure modules are compatible with your existing switches, routers, or network equipment.
- **Standards Compliance:** Look for MSA compliance and certifications like TAA for reliability and regulatory adherence.
- **Performance Requirements:** Consider data rate (100G, 400G, 800G), reach (short, long, ZR), and connector type (LC, MPO, CS).
- **Support and Warranty:** Suppliers offering technical support, lifetime warranties, and testing reports can reduce deployment risks.
- **Supply Chain Security:** Local or regional manufacturing, like ESTEL in Europe, can provide traceability and stable supply. These suppliers collectively cover a wide spectrum of optical transceiver needs, from short-range SFP modules to high-speed QSFP-DD modules for 400G networks, making them suitable for enterprise, data center, and telecom applications.

## Article Content

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QSFP-DD Optical Transceivers for High-Speed Connections

Systems designed with QSFP-DD ports are backwards compatible to support existing QSFP+, QSFP28, and QSFP56 modules. This

Optical Transceivers SFP SFP28 QSFP28 QSFP-DD

OEM-compatible optical transceivers from 1G to 800G—SFP, SFP28, QSFP28, QSFP-DD & OSFP. MSA

Lightrend

Lightrend is a leading manufacturer of high-performance optical transceivers. We design and produce a wide range of modules,

QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G

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What are SFP MSA and SFP+ MSA standards?

Small Form-factor Pluggable (SFP) Transceiver MultiSource Agreement (MSA) We often hear the familiar terms SFP,

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry's highest bandwidth density

Comprehensive Guide to QSFP-DD, QSFP28, QSFP56,

Complete Guide to QSFP-DD, QSFP28, QSFP56, SFP56, and SFP28 Optical Modules As high-speed

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

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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

Cisco 400G QSFP-DD High-Power (Bright) Optical Module Data Sheet

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module's small size and low power make it an optimal

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QSFP vs SFP: Which Optical Transceiver Should You Choose in 2025?

As modern enterprise networks scale up to handle increasing data loads and higher bandwidth requirements, the

All About QSFP Cables, Connectors, and More

The result is a small tolerance loop between the optical devices and lenses, which leads to very high yields. QSFP

FS

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The Big Differences Between SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP-DD ...

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Smartoptics QSFP-DD transceivers provide cost-efficient 400G and 800G optical networking. QSFP-DD

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QSFP-DD Interconnect System enables faceplate density equal to the current 2x1 QSFP form factor, but with 8-lane ports. In other

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QSFP-DD optical module for reliable 400G fiber connections, perfect for distances beyond DAC reach, up

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