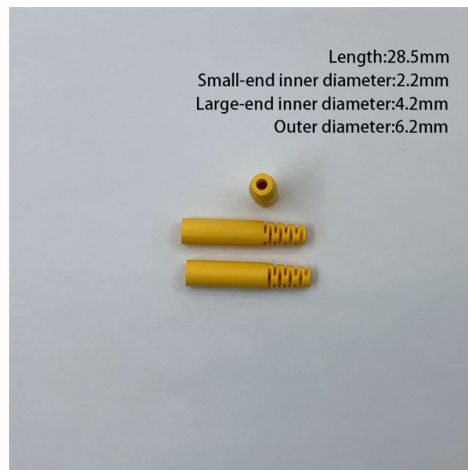


In-stock optical core router QSFP-DD



AI Overview

QSFP-DD modules are high-density, pluggable optical transceivers supporting 400G and 800G speeds, designed for direct integration into core routers and DWDM networks. Overview of QSFP-DD QSFP-DD (Quad Small Form Factor Pluggable Double Density) is an evolution of the QSFP family, doubling lane density to support 400G and 800G data rates while maintaining backward compatibility with QSFP28 and QSFP56 cages. Each module uses 8 high-speed electrical lanes, typically supporting 50G PAM4 signaling, enabling cloud-scale, AI-driven, and carrier-grade infrastructure in a compact form factor. QSFP-DD modules are widely used in data centers, metro, and core network deployments due to their high port density and interoperability.

Types of QSFP-DD Modules

- 400G QSFP-DD Short-Reach (SR8):** Ideal for in-rack or cross-row connections, priced around \$1,400–\$1,800 from third-party vendors.
- Digital Coherent Optics (DCO):** Supports OIF 400ZR and OpenZR+ standards, enabling direct plug-in to routers without intermediate transponders. Standard transmit power is typically -10 dBm, suitable for shorter DWDM links but may require amplification for ROADM networks.
- DR4/FR4:** Bridge data center rows or campus links, offering intermediate reach between SR8 and coherent modules.
- 800G QSFP-DD High-Power DCO:** Supports OIF 800ZR, multi-rate coherent transmission (400G, 600G, 800G), and long-haul metro/regional networks. High transmitter output (0 dBm) ensures compatibility with ROADM line systems and direct router integration.

Integration with Core Routers

Cisco QSFP-DD OLS modules can be directly hosted on Cisco routers, providing a pluggable optical amplifier solution for DWDM networks. Routed Optical Networking (RON) architecture allows router-to-router optical connections, reducing the need for separate transponders and simplifying network operations. Coherent QSFP-DD modules enable IP-over-DWDM, reducing capital and operational expenditures by minimizing intermediate equipment, power consumption...

Article Content

Cisco 400G QSFP-DD Cable and Transceiver Modules

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. QDD-400-CuxM cables are suitable for very short links and offer a cost-effective

Cisco QSFP-DD800 Transceiver Modules Data Sheet

For more information and references on QSFP-DD cable guides, please click on the following link: [Cisco Transceiver Modules - Brochures - Cisco](#)

AI Data Center Optics: Validation & Testing Handbook 2026

The complete operator guide to AI data center optics validation — sample testing, 5-check bring-up, DOM baselines, burn-in, and triage. 23 chapters, 15 reference cards.

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules Data

Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers capable of supporting up to a 200-Gbps

Ultimate QSFP Transceiver Guide: Types (40G/100G) & Compatibility

Confused by QSFP types? Decode the differences between QSFP+, QSFP28 (100G), and QSFP-DD. Learn how to select the right speed, connector (SR4 vs LR4), and Cisco-compatible coding for your

Know Your 400G Transceiver | Juniper Networks

400 Gigabit Ethernet (400G) transceivers are optical modules capable of handling data rates of 400 Gbps. With a transmission rate of up to 400 Gbps, 400G transceivers offer double the capacity of

Cisco 100GBASE QSFP-DD 100G ZR Module Data Sheet

The Cisco 100G Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) 100G ZR provides customers with a 100 Gigabit Ethernet ZR connectivity option for data centers, high

Fiber Optic Connector Types: Full Comparison

For 40G, 100G, 400G, and 800G applications using parallel optic transceivers (QSFP28, QSFP-DD, OSFP), MPO/MTP connectors carrying 8, 12,

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 placed between modules. This flexibility enables switch and routing

The Ultimate Guide to Cisco QSFP Optical Transceiver Modules

The QSFP standard was followed by Cisco's QSFP optical transceiver modules, which were created for fast data transmission. The QSFP+ can work with 100 Gbps and more because it

The Evolution of 400G, 800G, and 1.6T Optical Modules

Our optical modules ensure seamless, high-speed data transmission, effectively meeting the growing demands of modern digital landscapes. We have large stock of popular 400G and 800G

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

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

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.

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.

400G/300G/200G QSFP-DD Digital Coherent Optics

By plugging Coherent's high transmit output power 400G QSFP-DD-DCO transceivers directly into their switches or routers, network operators can remove

Understanding QSFP-DD 400G Optical Transceivers – The ...

That's where QSFP-DD 400G optical transceivers come in. What is QSFP-DD? QSFP-DD stands for Quad Small Form-factor Pluggable Double Density. It's an upgraded version of the

800G AEC, 800G OSFP to 800G QSFP-DD Active Electrical Cable,

10Gtek's 800G OSFP to 800G QSFP-DD Active Electrical Cable (AEC) is designed for use in 800 Gigabit Ethernet links, up to 5 meters. The module has 8 independent electrical input/output

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

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

These digital coherent optics modules enable 800G traffic over amplified DWDM links up to 120 km for 800ZR and over 1000 km for 800G ZR+.

400G QSFP-DD Optical Transceivers | Carritech Optics

400G QSFP-DD Optical Transceivers. In stock. Browse our range of QSFP-DD transceivers. Lifetime Warranty is included with all products.

EMSECKO MPO to MPO Fibre Optic Cable 1 m, 12 Core Fibre Optic

MPO to MPO Fibre Optic Cable 1 m, 12 Core Fibre Optic Cable, Socket Type B, OM3 Multimode Patch Cable, LSZH MPO-MPO Patch Cord for QSFP+ Transceiver MTP Compatible Cabling System, Aqua

QSFP-DD Optical Transceivers – MapYourTech

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

SFP Modules: The Unsung Heroes of Modern Networks

SFPs: The Small Components That Keep Modern Networks Connected As network engineers, we talk a lot about routers, switches, and bandwidth — but rarely do we give enough credit to the small, hot ...

The Ultimate Guide to QSFP Cables: What You.

40G-QSFP-SR4-ST Optical Transceiver Module How to Choose the Right QSFP Cable? Choosing a QSFP cable isn't just about matching the speed.

Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

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 system solution in a pluggable form

Contact Us

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