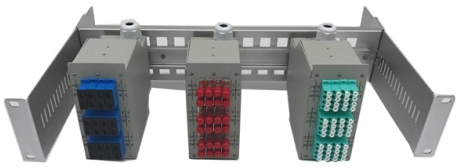
Bulk purchase of QSFP-DD optical modules QSFP-DD



Overview

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

Key Takeaways

QSFP-DD active optical modules are available for bulk purchase from multiple MSA-compliant suppliers, supporting high-speed data transmission for data centers, AI clusters, and enterprise networks. Overview of QSFP-DD ModulesQSFP-DD (Quad Small Form-factor Pluggable Double Density) modules are high-density, hot-pluggable optical transceivers designed for 200G and 400G Ethernet networks, with backward compatibility to QSFP28 and QSFP56 standards. They convert electrical signals into optical signals for high-speed fiber communication, enabling multi-lane data transmission in a compact form factor, which is ideal for data centers, cloud infrastructure, and AI computing clusters.

Key Features

High Bandwidth: Supports 200G and 400G speeds, with some modules capable of 800G in coherent optics applications.

MS

A Compliance: Ensures compatibility with major OEM hardware such as Cisco, Juniper, Huawei, and Arista. Connector Options: Typically LC, MPO, or MPO-16, supporting both short and long-reach deployments. Power Efficiency: Compact and power-efficient design suitable for dense switch and router environments.

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Advanced Diagnostics: Many modules include monitoring features for temperature, voltage, and optical power.

Bulk Purchasing Options

Several suppliers offer QSFP-DD modules in bulk quantities: Unitekfiber: Offers a wide range of MSA-compliant transceivers including 200G QSFP-DD and 400G QSFP-DD modules, engineered for low latency and high reliability.

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S: Provides 400G QSFP-DD and OSFP modules with high performance and backward compatibility, available from multiple warehouses with 30-day free returns. Pivotal Optics: Supplies precision-built, performance-driven QSFP-DD modules with limited lifetime warranty, supporting Ethernet and InfiniBand networks.

Considerations for Bulk Purchase

Compatibility: Verify that the modules are compatible with your existing switches, routers, and network protocols. Transmission Distance: Choose modules based on required reach, from short-range (up to 100m) to long-range (up to 120 km for 800ZR coherent optics) deployments. Connector Type: Ensure the connector type matches your fiber infrastructure (LC, MPO, MPO-16).

Vendor Support: Consider suppliers offering warranties, technical support, and testing for interoperability. Cost Efficiency: Compare OEM vs third-party modules for bulk pricing without compromising performance.

Recommendations

For A

I clusters or high-performance data centers, prioritize low-latency, high-bandwidth QSFP-DD modules with PAM4 signaling and advanced diagnostics. For long-distance interconnects, consider coherent optics QSFP-DD modules like Cisco 800G ZR/ZR+ for distances up to 120 km or beyond. Contact suppliers directly to negotiate bulk pricing, lead times, and warranty terms, especially for quantities exceeding dozens or hundreds of modules.

By carefully evaluating compatibility, reach, connector type, and vendor reliability, you can ensure a cost-effective and high-performance deployment of QSFP-DD active optical modules for large-scale network infrastructure.

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Article Content

QSFP-DD Optical Transceivers for High-Speed Connections

Cisco offers a comprehensive portfolio of QSFP-DD modules across copper, multimode fiber, and single-mode fiber, optimized for a broad range of applications and distances, leveraging NRZ, PAM4, and

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

Our experts are ready to assist with compatibility questions, deployment planning, and bulk order solutions. Whether you''re optimizing an existing network or building something new, we''ll help you

QSFP Transceiver Modules | 40G, 100G, 400G QSFP+, QSFP28

Shop a complete range of reliable QSFP transceiver modules. Find compatible QSFP+, QSFP28, and QSFP-DD optics for data rates from 40G to 400G and beyond. Engineered for data centers and

2x100G QSFP-DD Modules | Dual 100G Optical Transceivers

High-density 2x100G QSFP-DD transceivers for 200G breakout applications. SR4, CWDM4, and LR4 options from 100m to 10km.

QSFP-DD TRANSCEIVERS for 400G and 800G

Download the overview datasheet for QSFP-DD transceivers, or browse all our transceivers, AOC and DAC cable assemblies. At Smartoptics, we believe

QSFP-DD Optical Transceivers – MapYourTech

Module Variants: Compare different QSFP-DD types including SR8, DR4, FR4, LR4, LR8, and ZR implementations, understanding their optimal use

800G OSFP/QSFP-DD Optical Transceivers for

NADDOD 800G modules are crucial components for the next generation of high-performance data center networks. They feature OSFP form factors, advanced

Cisco C9610 Series Smart Switches Data Sheet

The same line card also provides two ports of multi-rate QSFP28 ports and two ports of multi-rate QSFP-DD to connect to upstream devices (for

Arista LPO-800G-2DR4 Compatible 800G OSFP

Cisco QSFP-400G-DR4 Compatible 400GBASE-DR4 QSFP112 4x100G PAM4 1310nm 500m SMF DOM MPO-12/APC Optical Transceiver Module Cisco QDD

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QSFP-DD Optical Transceivers for High-Speed

Cisco''s comprehensive portfolio of QSFP-DD modules support 400G and 800G data rates across copper, multimode fiber, and single-mode fiber, and

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

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

Comprehensive Guide to 400G/800G QSFP-DD Optical Modules

Applications of 400G/800G QSFP-DD Optical Modules The 400G/800G QSFP-DD optical modules leverage a double-density design to deliver higher port density and bandwidth, while

QSFP-DD Optical Module Overview: What is the differ?

The QSFP-DD is the smallest 400G form factor optical module on the market today. It is also the optical module that offers the highest transmission bandwidth density in 400G applications,

800G Optical Transceiver Overview: QSFP-DD and OSFP Packages

This article provides an overview of 800G optical transceivers, focusing on the QSFP-DD and OSFP packages. Explore the features, differences of these high-speed transceiver form factors

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

QSFP DD Guide: High-Speed QSFP DD Optical Modules

Learn how QSFP DD enables high-speed 400G networking with higher density, compatibility, and performance for modern data centers.

400G OSFP/QSFP-DD/QSFP112 Module Introduction and Selection

The explosive growth of global data volume has placed higher demands on the bandwidth and performance of data center networks, making 400G optical modules a critical

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry''s highest bandwidth density while leveraging the backward compatibility to lower

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