

QSFP-DD Active Optical Equipment



AI Overview

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) active optical modules provide high-speed, genuine 400G and 800G connectivity for data center, metro, and long-haul networks.

Overview of QSFP-DD

QSFP-DD is an advanced optical transceiver form factor that doubles the electrical interface lanes of standard QSFP modules, enabling 400G Ethernet speeds and beyond, with QSFP-DD800 and QSFP-DD1600 supporting 800G and 1600G respectively. The modules are designed for high-density deployments, offering backward compatibility with existing QSFP ports while supporting the latest ASIC bandwidths. QSFP-DD modules are optimized for thermal management and system design flexibility, making them suitable for data centers, AI/ML workloads, and high-bandwidth networking.

Key Features of Genuine QSFP-DD Modules

- **High-Speed Transmission:** Supports 100G, 200G, 400G, and in some cases 800G per wavelength, depending on the variant.
- **Coherent Optics Support:** Variants like QSFP-DD ZR and ZR+ enable long-haul transmission up to 120 km (ZR) and beyond 1000 km (ZR+) using amplified DWDM networks.
- **Modulation and Baud Rates:** ZR+ modules support QPSK, 8-QAM, and 16-QAM modulation schemes with baud rates up to ~60G, allowing flexible 100G-400G per wavelength configurations.

Article Content

15m (49ft) 400G QSFP-DD Active Optical Cable

Providing industry-leading limited lifetime warranty. Read the table for details of all products' warranty.

Quadwire® QSFP-DD Active Optical Cables | Coherent

Drive high-speed connectivity enabled by multiple (4 or 8) parallel channels in AOCs with our multimode

400G QSFP-DD Active Optical Cable Datasheet | FS

Description 400G QSFP-DD to 400G QSFP-DD Active Optical Cable enables low-power, high-reliability and high-speed

QSFP-DD Optical Transceivers Unlocking Faster Connections

QSFP-DD Optical Transceivers deliver up to 800Gbps speeds, offering high bandwidth, energy efficiency, and

QSFP-DD Optical Transceivers

QSFP-DD DAC and AOC QSFP-DD Direct Attach Copper (DAC) cables provide a complete cable assembly instead of discrete

QSFP Cables Explained 2025: Types, DAC vs AOC, and DC Use Cases

Learn about QSFP cables: QSFP+, QSFP28, QSFP56, QSFP-DD. Compare DAC vs AOC, speeds, lengths, and use

10m (33ft) 400G QSFP-DD Active Optical Cable

FS Modify™ is a customized service provided by FS to meet customers' hardware and software development needs, including

Genuine optics coherent series products.

800G QSFP-DD ZR+ Pro Transceiver is a high performance, high output power, cost effective pluggable DCO module compatible

Cisco QSFP-DD Pluggable Open Line System (QSFP-DD OLS)

The QSFP-DD OLS is a pluggable open line system solution that can be directly hosted on a Cisco router.

SFP, QSFP, QSFP-DD, OSFP ACTIVE OPTICAL CABLE ASSEMBLIES

TE Connectivity's (TE) active optical cable assembly portfolio provides improved cable flexibility and longer reach, as compared to

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

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

40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for

40G QSFP+ TRANSCEIVERS | Smartoptics

QSFP+ Active Optical Cables (AOC) – Use real transceivers with fiber optics, offering longer-distance

Genuine optics 400G series products.

The 400G QSFP-DD ZR+ Pro Transceiver is a high performance, high output power, cost effective module

QSFP-DD TRANSCEIVERS for 400G and 800G

Active Optical Cables (AOC): Incorporate real transceivers with fiber optics, providing longer-distance

TE connectivity QSFP-DD Active Optical Cable Instruction Manual

These assemblies are designed to provide improved cable flexibility and longer reach as compared to traditional passive copper

800G QSFP-DD Active Optical Cable Data Sheet | FS

The 800G QSFP-DD Active Optical Cable is designed for 800 Gigabit Ethernet links over OM4 multimode fiber. This cable is

QSFP DD 200G Active Optical Cable Assemblies

Amphenol QSFP DD to QSFP DD 200G Active Optical Cable assemblies increase the number of lanes from 4 to 8 and double the

400G QSFP-DD Active Optical Cable

400G QSFP-DD Active Optical Cable FEATURES Eight-channel full duplex active optical cable Up to 53.125 Gbps data rate per

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

400G QSFP-DD ZR+-Genuine optics 400G series products.

The 400G QSFP-DD ZR+ Transceiver is a high performance, cost effective module for optical data communication applications from

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

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

QSFP DD Cable Assemblies | High Speed Input Output | Amphenol

QSFP DD Loopback Modules Amphenol's QSFP DD (Double-Density) Loopback Modules are part of Amphenol's

100m (328ft) 400G QSFP-DD Active Optical Cable for FS Switches

The 400G QSFP-DD active optical cables are designed for use in 400 Gigabit Ethernet links over OM4 multimode fibres, and contain

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://kilitech.co.za>

Email: info@kilitech.co.za

Phone: +44 20 7183 2649

Address: 1st Floor, The Shard, 32 London Bridge Street, London, SE1 9SG, United Kingdom

This document is for informational purposes only. Specifications subject to change without notice.

