

QSFP-DD Optical Line Terminal



Overview

Amphenol's QSFP-DD high-speed connector family features a scalable, high-performance interconnect platform with 76 contacts on a 0.8mm pitch and a dual-mating interface. The Cisco ® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together with the channel breakout options (described later), provides a simple yet powerful open. The MQD-F2F2C is a cost-effective module with high performance, which is optimized for Datacenter, supporting data-rate of 4×53 . Its transmission distance is up to 100m on OM4/OM5 MMF. The module mainly consists of two. Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D. Supporting the continuing growth in the bandwidth demand and datacenter traffic driven by networking and AI/ML requirements, the QSFP-DD (Double Density) Interconnect System delivers 8 lanes with up to 28 Gbps NRZ or 56 Gbps-PAM4 (up to 400 Gbps aggregate) in a compact footprint that is backward. QSFP-DD (quad small form-factor pluggable double density) doubles the capacity of QSFP interconnects with an eight-lane electrical interface capable of 28 Gbps NRZ, 56 Gbps PAM4, and 112 Gbps PAM4 to achieve up to 800 Gbps per port.

Article Content

Nov 08, 2025

QSFP-DD Product Family » Acacia

Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links

May 24, 2026

TE Connectivity

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Mar 18, 2026

OSFPFL-400G-QDDAOxxx Datasheet | FS

The 400G QSFP-DD to OSFP-RHS Active Optical Cable is a pluggable, parallel, fiber-optic QSFP-DD to OSFP-RHS AOC for Ethernet applications. It contains eight multi-mode fibers (MMF) optic

Jan 06, 2026

Genuine optics 400G series products.

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

Jun 21, 2026

400G QSFP-DD DR4+ -Genuine optics 400G series products.

400G QSFP-DD DR4+ The MQD-36F2C Transceiver is a high-performance, cost-effective module for optical data communication applications supporting 400G Ethernet. The MQD-36F2C is designed for

Jun 25, 2026

QSFP-DD Optical Transceivers for High-Speed Connections

Product overview The ongoing explosion of data traffic is driving the need for faster processing, greater bandwidth, and higher density connections within and between data centers. Network operators are

May 17, 2026

QSFP-DD Linear Pluggable Optics (LPO)

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe[®] Gen 5.0 over optical

Jul 04, 2025

QSFP-DD Connector System

QSFP-DD Interconnect System enables faceplate density equal to the current 2x1 QSFP form factor, but with 8-lane ports. In other words, a total of 256 differential

Jul 01, 2025

QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G PAM-4, up to 200, 400 or 800 Gbps aggregate. Backwards

Dec 11, 2025

QSFP DD Connectors

Amphenol ICC's QSFP DD interconnect system is comprised of a 76 position, 0.8mm pitch connector built for use in high speed serial applications. Each port supports up to 400Gb/s in aggregate over an

Mar 09, 2026

QSFP-DD Connectors, Cages and Cable Assemblies

TE's QSFP-DD products work cost effectively in 15-18W applications leveraging proprietary heat sink technology. Our new connectors are fully backward

Aug 24, 2025

QSFP-DD Product Family » Acacia

Bright 400ZR+ QSFP-DD Pluggable Coherent Optical Module Metro/regional | Service provider ROADM networks Key Features High optical transmitter output

Sep 23, 2025

Cisco QSFP-DD Pluggable Open Line System (QDD

Cisco designed an ingenious solution to collapse the optical line

Jun 11, 2026

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-speed

Dec 06, 2025

QSFP DD Connectors

Amphenol Communications Solutions' QSFP DD interconnect system is comprised of a 76-position, 0.8 mm pitch connector built for use in high-speed serial applications.

Nov 18, 2025

QSFP-DD Connectors | High Speed I/O | Amphenol

Amphenol's QSFP-DD high-speed connector family features a scalable, high-performance interconnect platform with 76 contacts on a 0.8mm

Dec 09, 2025

Cisco 400G Digital Coherent Optics QSFP-DD Optical

The latest addition to the Cisco portfolio pushes this boundary further with the introduction of the 400G DIGITAL COHERENT QSFP-DD PLUGGABLE

Nov 05, 2025

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

Product overview The Cisco® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together with the channel breakout options (described later), provides a simple

Jul 20, 2025

400G QSFP-DD SR4 -Genuine optics 400G series

The MQD-F2F2C is a cost-effective module with high performance, which is optimized for Datacenter, supporting data-rate of 4 × 53.125 GBd PAM4 Optical

Nov 03, 2025

QSFP DD Cable Assemblies | High Speed Input Output

QSFP DD Cable Assemblies Amphenol's QSFP DD (Double Density) copper cable assemblies double the number of channels from 4 to 8 lanes when

Nov 10, 2025

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

Sep 22, 2025

QSFP-DD Optical Transceivers for High-Speed

Connect with existing, lower speed QSFP modules with QSFP-DD backwards compatibility. Optimize thermal management with flexible heatsink

Feb 18, 2026

800G QSFP-DD Cable and Transceiver Modules Data Sheet

Product overview The FS® 800GBASE Quad Small Form-Factor Pluggable (QSFP/QSFP-DD) portfolio offers customers a wide variety of high-density and low-power 800

Jun 10, 2026

The Ultimate Guide to QSFP Cable: Everything You

Discover everything you need to know about QSFP cables with Fibermall's expert insights!

Jun 21, 2026

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

The 400G QSFP-DD ZR+ Pro Transceiver is a high performance, high output power, cost effective module for optical data communication applications from 100G to 400G.

May 04, 2026

200G QSFP DD Active Optical Cable (AOC)

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

Contact Us

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