

# GPON equipment QSFP-DD output



## Overview

QSFP-DD (Quad Small Form Factor Pluggable Double Density) is an evolution of the QSFP family, extending its lane capacity from 4 to 8 high-speed electrical lanes. Each lane supports up to 50G PAM4 signaling, delivering an aggregate throughput of 400G — or even 800G in advanced PAM4. The QSFP-DD OLS is a pluggable open line system solution that can be directly hosted on a Cisco router. 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. 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 QSFP-DD family supports legacy QSFP channels on the front interface and four additional channels on the rear interface. This. Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double Density (QSFP-DD) module, connector and cage system. This document provides a common specification for systems. Superxon 50GPON Triple OLT transceivers, compliant with QSFPDD MSA, support single-fiber bi-directional data links with multiple TX and RX rates: 49.



## Article Content

Hot

Cisco QSFP-DD Pluggable Open Line System (QDD

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

Apr 24, 2026 Hot

QSFP DD Cable Assemblies | High Speed Input Output

Amphenol QSFP DD (Double Density) passive copper cable assemblies double the number of channels from 4 to 8 lanes when compared to

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What is QSFP DD connector□

QSFP-DD (Quad Small Form Factor Pluggable Double Density) is a high-speed and high-density interface for networking and data communication applications. The QSFP-DD connector is a

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An Overview on QSFP-DD (Double Density QSFP)

An Overview on QSFP-DD (Double Density QSFP) With the rapid growth of data center and 5G development, density, power limits in servers,

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Cisco 400G QSFP-DD Cable and Transceiver Modules

Product overview The Cisco 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a wide variety of super high-density transceiver modules and the

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Unlocking the Future of Connectivity: Understanding

Discover the future of connectivity with QSFP-DD transceivers. Learn how this compact, high-density interface enhances 200G/400G interconnect

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A Deeper Dive into 400G QSFP-DD Transceiver with

Seamlessly integrating coherent technology into pluggable transceivers enables direct implementation of DWDM functionality in today's high

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### QSFP-DD Configuration

QSFP-DD Configuration Overview QSFP-DD is a new module developed but with the same form factor as the current QSFP, to support high-speed solutions. It provides eight lanes electrical interface.

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### Modern Form Factors for 200G/400G Networks (QSFP

Why choose QSFP-DD over other form factors like QSFP56, OSFP, CFP8, or even COBO? Read on to learn more.

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### 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

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### 400G QSFP-DD Active Optical Cable Datasheet | FS

400G QSFP-DD to 400G QSFP-DD Active Optical Cable enables low-power, high-reliability and high-speed interconnections over very thin copper cables without using any optical components.

Aug 13, 2025 Hot

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

QSFP-DD (Quad Small Form Factor Pluggable Double Density) is an evolution of the QSFP family, extending its lane capacity from 4 to 8 high-speed electrical lanes. Each lane supports

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### FS 400G QSFP-DD: Complete Guide and Solutions

Explore FS 400G QSFP-DD transceivers and cables for cost-effective, low-power, and scalable 400G data center connectivity, supporting

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

They expand Cisco routed optical networking applications to include 800G links and are compatible with Cisco and third-party 800G-capable routers,

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

From a technological perspective, both 400G and 800G QSFP-DD modules benefit from significant advancements. Silicon photonics has played a

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### QSFP-DD Connectors, Cages and Cable Assemblies

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

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### Understanding QSFP Cables: A Comprehensive Guide to 40G

Explore our comprehensive guide to QSFP cables for 40G direct attach options. From passive/active DAC to copper cable assemblies, find the perfect solution for your network. Trusted by

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### QSFP-DD Guide

QSFP-DD is a high-speed, high-density, hot-pluggable optical transceiver module used in data communication applications. QSFP-DD is an evolution of the QSFP (Quad Small Form Factor

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### QSFP-DD Hardware

Figure 3: Example QSFP-DD/QSFP-DD800 host board schematic for Optical Modules  
Note: Filter capacitors values are informative and application dependent, 0.1 F capacitors should be placed in

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### 400G QSFP-DD Cable and Transceiver Modules Data Sheet

QSFP-DD to 4xQSFP28 cable assemblies are high performance, high bandwidth and cost effective interconnect solutions that support 400G standard applications with different data rates.

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### Specification – QSFP-DD

August 7, 2020 – QSFP-DD Hardware Specification for QSFP DOUBLE DENSITY 8X PLUGGABLE TRANSCEIVER – Rev 5.1 July 11, 2019 – QSFP-DD Hardware Specification for QSFP

Dec 14, 2025 Hot

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

The QSFP-DD standard represents the pinnacle of optical interconnect evolution — enabling unprecedented bandwidth density, efficiency, and scalability for modern data centers.

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QSFP-DD Linear Pluggable Optics (LPO) | High Speed

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

Jul 29, 2025 Hot

50GPON OLT QSFP DD Optical Transceiver Module

Superxon 50GPON Triple OLT transceivers, compliant with QSFPDD MSA, support single-fiber bi-directional data links with multiple TX and RX rates: 49.7664Gbps,

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QSFP-DD Product Family » Acacia

Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D Siliconization. Supports an

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QSFP-DD Hardware

August 7, 2020 Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double

Feb 06, 2026 Hot

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

Aug 22, 2025

## Contact Us

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