

Rebranded Passive Optical Network QSFP-DD



Overview

QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts providing for an eight lane electrical interface. It is being developed by the QSFP-DD MSA as a key part of the industry's effort to enable high-speed solutions. 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. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+. Cisco ® QSFP-DD and OSFP 800G ZR/ZR+ coherent optics modules enable 800G traffic over. Glasgow, UK September 29th, 2023 – The Quad Small Form Factor Pluggable Double Density (QSFP-DD) Multi Source Agreement (MSA) group announced today at the European Conference on Optical Communications (ECOC 2023), the release of a hardware specification revision 7. QSFP Standards (2025 Edition) This table consolidates specifications from over 20 different MSA documents into a single, actionable view. Pro Tip: In 2025, QSFP112 is gaining traction as a bridge technology. It allows 400G speeds in a native 4-lane. 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 lane density and support data rates up to 400Gbps and beyond.

Article Content

Press Releases – QSFP-DD

Glasgow, UK September 29th, 2023 – The Quad Small Form Factor Pluggable Double Density (QSFP-DD) Multi Source Agreement (MSA) group announced today at the European

The Ultimate Reference Table for SFP & QSFP Optical Transceiver ...

The definitive guide to SFP, QSFP, and QSFP-DD standards for 2025. Compare 400G/800G optics, understand PAM4 complexity, and master QSFP-DD vs OSFP deployment

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

Arista Optics Modules and Cables

A Broad range of 400GE optics, AOCs and cables, in both OSFP and QSFP-DD form-factors 400G-ZR optics, with pluggable line-system for simple, cost effective DCI Flexibility of media and interface

QSFP-DD Optical Transceivers – MapYourTech

These practical examples and guidelines provide actionable insights for successful QSFP-DD deployment across diverse network environments, from

Differences Between QSFP-DD and QSFP+ / QSFP28 / QSFP56 /

As a leading solution in high-speed applications, QSFP-DD transceivers are often compared with other modules such as QSFP56, QSFP112, OSFP, and CFP2. So what are the

QSFP DD Loopback Modules

Amphenol's QSFP DD (Double-Density) Loopback Modules are part of Amphenol's comprehensive QSFP DD product family offering – cables, connectors and AOC's. These QSFP DD loopback cable

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

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

Optical Transceiver Market Size, Growth Drivers

By form factor, QSFP28 and QSFP-DD devices held 38.72% share in 2025, while OSFP packages are on course for a 14.83% CAGR to 2031. By fiber

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 Cables Explained 2025: Types, DAC vs AOC,

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

Optical Transceivers

MCP7H60-W00AR30 NVIDIA Compatible 0.5M 400G QSFP-DD to 2 x 200G QSFP56 Passive Direct Attach Breakout Cable MSRP: Was: Now: €218.00 Quick view Add to CartThe item has been added

What is QSFP? A Complete Guide 2025

In this comprehensive guide, we'll explore what QSFP is, its different variants, how it works, and why it's a game-changer for high-speed network

What is QSFP-DD Transceiver: A Beginner Guide (2022)

If you're looking for a QSFP-DD transceiver, Optcore is a great place to start your search. We offer a wide selection of QSFP-DD transceivers that are compatible with a variety of networks

QSFP-DD Optical Transceivers Unlocking Faster Connections

QSFP-DD Optical Transceivers deliver up to 800Gbps speeds, offering high bandwidth, energy efficiency, and compatibility for modern networks and data centers.

In-Depth Analysis of QSFP-DD 400G DAC Cables

Conclusion QSFP-DD passive 400G DAC cable is an efficient and economical option, especially suitable for high-bandwidth applications over short distances. In contrast, 400G QSFP-DD

QSFP-DD Optical form factor: An evolutionary approach to 400GbE ...

CMOS integration enables QSFP-DD to be built for these “complicated optics” which are already in design. To support that, the Optical Internetworking Forum is working to define a

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

