

CE Certified High-Speed Optical Connector QSFP-DD



Summary of Content

QSFP-DD optical connectors are high-speed, CE-compliant interconnects supporting up to 800G per port with backward compatibility and advanced thermal management for data center and metro networks.

Overview

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) connectors are designed to double the capacity of standard QSFP modules, featuring an eight-lane electrical interface capable of 28 Gbps NRZ, 56 Gbps PAM4, and 112 Gbps PAM4 signaling, achieving up to 800 Gbps per port . These connectors support both optical and copper interfaces, providing flexibility for high-speed networking applications . CE certification ensures compliance with European safety, health, and electromagnetic compatibility standards.

Key Features

- **High-Speed Performance:** Supports 400G and 800G Ethernet, 4x2 lane 224 Gb/s PAM4, and 112G PAM4 per lane, enabling next-generation data center and cloud computing operations .
- **Backward Compatibility:** QSFP-DD connectors are compatible with legacy QSFP modules, allowing cost-effective upgrades without replacing existing infrastructure .
- **Thermal Management:** Proprietary heat sink designs and cage options manage power up to 15-18W, ensuring signal integrity and reliability in high-density deployments .

Article Content

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

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

Bandwidth & Application The QSFP-DD module provides maximum bandwidth 400Gbps, whereas the

QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G

QSFP-DD Transceivers: 400G/800G Specs, Types & Buying Guide

QSFP-DD is one of the most important optical transceiver form factors for modern high-speed networks. As cloud

QSFP-DD Connectors, Cages and Cable Assemblies

TE Connectivity's new Our QSFP-DD 112G SMT receptacle connectors can address next-generation data

QSFP-DD Connector System

Telecommunication and data center customers have increasing bandwidth requirements and, therefore,

List of QSFP-DD Models & Products | TE Connectivity

Our QSFP-DD cages have propriety heatsinks and offer you a solution to work in 15W - 18W at low cost while providing superior

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

Equipment equipped with QSFP-DD ports supports backward compatibility with existing QSFP+, QSFP28, and

QSFP-DD CONNECTORS & CABLE ASSEMBLIES PRODUCT

High Speed 400G Pluggable I/O Solutions TE Connectivity's (TE) QSFP-DD (quad small form-factor pluggable double density)

Optical Connector – QSFP-DD

The QSFP-DD MSA will define a new pluggable form factor that supports 8 high speed electrical interfaces connecting to the host.

QSFP DD Connectors

Amphenol Communications Solutions'' QSFP DD interconnect system is comprised of a 76-position, 0.8 mm pitch

QSFP-DD Linear Pluggable Optics (LPO)

Amphenol''s QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency,

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

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry''s highest bandwidth density

QSFP-DD Optical Transceivers Unlocking Faster Connections

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

QSFP-DD Hardware

QSFP-DD MSA family of modules and cages remain fully backward compatible with the classic QSFP+ formfactor. This document

High Speed Connectors | Products | Amphenol

Amphenol''s ExtremePort™ QSFP+ interconnect system is comprised of a 38-position, 0.8mm pitch

Cisco QSFP-DD800 Transceiver Modules Data Sheet

The Cisco family of QSFP-DD800 modules leverages the cornerstone of high-speed, high-density pluggable form factors, QSFP. The

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

What Is the QSFP-DD Standard? QSFP-DD (Quad Small Form Factor Pluggable Double Density) is an evolution of

SFP, QSFP, QSFP-DD, OSFP Active Optical Cable Assemblies

SFP, QSFP, QSFP-DD, OSFP ACTIVE OPTICAL CABLE ASSEMBLIES Our active optical cable assembly portfolio provides

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

About Us QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts

QSFP-DD Hardware

17 16 15 September 29, 2023 19 18 Abstract: This specification defines: the electrical and optical connectors, electrical signals and

QSFP Connector System

Loop optical transmit ports to receive ports: Allows loopback testing of modules, cables during burn in and

Comprehensive Guide to QSFP-DD, QSFP28, QSFP56, SFP56, and

Complete Guide to QSFP-DD, QSFP28, QSFP56, SFP56, and SFP28 Optical Modules As high-speed networks continue to evolve,

The Ultimate Guide to QSFP Cable: Everything You Need to Know

Connector Type: Uses MTP/MPO connectors for fiber optics & standard QSFP+ connectors for copper Signal Integrity:

List of QSFP-DD Models & Products | TE Connectivity

Search our portfolio of QSFP-DD products and select your specifications. We offer a wide array of reliable and cost-effective products

What is QSFP & QSFP+ Transceiver: An Ultimate Guide

In recent years, with the increasing demand for data centers and cloud computing, QSFP transceivers have become

OptiModule — High-Performance Optical Transceivers 10G to 800G ...

OptiModule by eSeeSky Inc. — Enterprise optical transceivers from 10G to 800G. SFP+, QSFP28, QSFP-DD, OSFP. MSA

QSFP-DD Optical Transceivers for High-Speed Connections

Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) offers twice as many high-speed electrical interfaces as QSFP28

QSFP-DD Connectors, Cages and Cable Assemblies

TE Connectivity (TE) stacked quad small form factor pluggable double density (QSFP-DD) 112G

QSFP-DD Hardware

This specification defines: the electrical and optical connectors, electrical signals and power supplies, 19 mechanical and thermal

QSFP Cables Explained 2025: Types, DAC vs AOC,

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

QSFP-DD Optical Transceivers for High-Speed

Benefits Connect with existing, lower speed QSFP modules with QSFP-DD backwards

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

Contact Us

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