

Customs Clearance High-Speed Optical Connector QSFP-DD



Overview

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. The QSFP-DD family supports legacy QSFP channels on the front interface and four additional channels on the rear interface. In other words, a total of 256 differential pairs with 32 ports delivers double-lane density within the same form factor. Customers can upgrade their box in advance of new cables. 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. The cage and connector design provides backwards compatibility to. The QSFP-DD Series offers up to 400Gbps transmission speeds and features 1-by cages. 4 Tbps aggregate bandwidth in a single switch slot. QSFP-DD electrical interfaces will employ eight lanes that operate up to 25 Gbps NRZ modulation or 50 Gbps PAM4 modulation, providing.



Article Content

Sep 19, 2025

QSFP-DD Series

Now, we deliver interconnection solutions for high-speed, vibration-resistant, ruggedized, shockproof, and waterproof requirements in MATIC (Medical, Aerospace, Transportation, Industry,

Jun 04, 2026

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

Designed for optimized performance, cost and high-volume manufacturability, it supports multiple connector/heat-sink configurations, and full

Mar 28, 2026

The Ultimate Guide to QSFP Cables

Explore the ultimate guide to QSFP cables. Learn QSFP types, differences from SFP, installation methods, and benefits for high-speed data

Jul 05, 2025

QSFP-DD Optical Transceivers for High-Speed

Network operators can connect to lower speed portions of their network with existing pluggable transceivers and migrate to higher speeds when

Feb 17, 2026

QSFP-DD Connector System

Telecommunication and data center customers have increasing bandwidth requirements and, therefore, require high-density interconnects. QSFP-DD

Dec 06, 2025

QSFP-DD Connectors, Cages and Cable Assemblies

TE Connectivity (TE) stacked quad small form factor pluggable double density (QSFP-DD) 112G connectors and cages are the next generation of data

Mar 04, 2026

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 08, 2025

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 QSFP-DD800 provides the industry's highest bandwidth density

Oct 01, 2025

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 increasingly common in the

Jan 07, 2026

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

May 15, 2026

QSFP-DD Optical Transceivers for High-Speed Connections

Network operators are looking for cost-optimized optical solutions that provide increased density and reduced power consumption—across high-speed as well as legacy ports—without sacrificing

Feb 15, 2026

How to Achieve Interconnection Between OSFP and QSFP-DD Ports?

With exponential traffic growth, hyperscale data centers must deploy multiple high-speed optical modules to meet varied demands. However, the coexistence of OSFP and QSFP-DD form

Jun 14, 2026

The Ultimate Guide to QSFP Cable: Everything You

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

Dec 09, 2025

100G QSFP28 vs SFP112: High-Speed Optical Modules Comparison

Compare 100G QSFP28 and SFP112 optical modules on speed, form factor, port density, compatibility, and power efficiency. Choose the best for your network.

Oct 03, 2025

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 while maintaining the same port density. When combined with higher

Dec 01, 2025

What is QSFP connector□

QSFP (Quad Small Form-factor Pluggable) connector is a high-speed, compact, hot-pluggable optical transceiver module used for data communication applications. It is designed to

Jan 07, 2026

QSFP Connectors

Molex QSFP Connectors are designed for high-density applications. Components of this Molex system include the electromagnetic interference (EMI) shielding cage, passive cable assembly, and a 38

May 12, 2026

All About QSFP Cables, Connectors, and More

QSFP connectors and cable assemblies have many options/configurations and performance levels. The table below summarizes

Jun 21, 2026

QSFP Imports Under HS Code 85176290

Information and reports on QSFP Imports Under HS Code 85176290 along with detailed shipment data, import price, export price, monthly trends, major exporting countries countries, major importing

Jun 17, 2026

Comprehensive Guide to QSFP – MapYourTech

QSFP modules utilize a high-density card-edge connector providing both high-speed differential data lanes and low-speed control/monitoring signals.

Jan 17, 2026

QSFP Connector System

Loop optical transmit ports to receive ports: Allows loopback testing of modules, cables during burn in and field troubleshooting High-speed contact wafer design

Jul 16, 2025

40G QSFP: The Core of Optical Network Interconnection

Learn how QSFP works, and why it is essential for optical networks. Explore selection tips for data centers and high-speed connectivity.

Jun 20, 2026

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 the QSFP family, extending its lane capacity from 4 to 8 high-speed

Dec 14, 2025

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 link, enabling

Sep 24, 2025

QSFP-DD Connectors, Cages and Cable Assemblies

TE's QSFP-DD 2x1 cages and connectors add to the wide range of existing QSFP-DD surface mount products, providing customers with additional design options

Mar 08, 2026

QSFP-DD Hardware

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)

Contact Us

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