

Manufacturer of QSFP-DD hybrid optical and electrical cable



AI Overview

Key manufacturers of QSFP-DD hybrid optical and electrical cables include Amphenol, Smartoptics, Molex, TE Connectivity, and Cisco. Leading Manufacturers Amphenol produces QSFP-DD copper cable assemblies that support both passive and active variants, offering 200G, 400G, and 800G aggregate bandwidths. Their products include hybrid loopback modules and are compatible with 25G/Lane NRZ up to 112G/Lane PAM4 signaling protocols, making them suitable for high-density data center applications. Smartoptics specializes in QSFP-DD optical transceivers for 400G and 800G networks. Their solutions support short-range multimode fiber, coherent DWDM, and 2x100G single-mode fiber connections. Smartoptics emphasizes interoperability, extended reach, and cost-efficient deployment for metro, regional, and DCI networks. Molex offers a QSFP-DD interconnect system with 8-lane electrical interfaces capable of 28G NRZ, 56G PAM-4, and 112G PAM-4, supporting up to 800 Gbps aggregate. Their cable assemblies are backward compatible with QSFP and include advanced Temp-Flex cable technology for high-speed hybrid applications. TE Connectivity (TE) provides a comprehensive QSFP-DD portfolio, including connectors, cages, and copper cable assemblies. TE's solutions support 28G NRZ, 56G PAM4, and 112G PAM4 signaling, with superior thermal and signal integrity performance for high-density data centers and AI workloads. Cisco offers QSFP-DD passive copper cables and transceiver modules for 400G and 800G networks. Their cables support high-bandwidth breakout configurations, such as QSFP-DD-to-4x QSFP56 100GBASE-CR2 and QSFP-DD-to-2x QSFP56 200GBASE-CR4, suitable for short links within racks or across adjacent racks. Summary These manufacturers provide a range of hybrid optical and electrical QSFP-DD solutions, including passive and active copper cables...

Article Content

Optical Transceiver Market Size, Growth Drivers

The Optical Transceiver Market worth USD 15.42 billion in 2026 is growing at a CAGR of 13.67% to reach USD 29.26 billion by 2031. Coherent

The Ultimate Guide to QSFP Cable: Everything You

QSFP cables require transceivers to convert electrical signals into optical ones, which are necessary for fiber optic types. These lasers emit light

QSFP-DD TRANSCEIVERS for 400G and 800G

Smartoptics QSFP-DD transceivers provide cost-efficient 400G and 800G optical networking. QSFP-DD (Quad Small Form-Factor Pluggable Double Density)

All About QSFP Cables, Connectors, and More

Amphenol is your industry leader when it comes to the innovation, design, manufacture, and supply of high-performance cable connectors and

QSFP-DD Connector System

Customers can upgrade their box in advance of new cables, and their infrastructure won't be idle while they wait for cables to be built. QSFP-DD Interconnect

QSFP-DD module PCB mass production: mastering opto-electrical co

A deep dive into QSFP-DD module PCB mass production—covering SI, thermal management, and power/interconnect design—to help you build high-performance data-center

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

QSFP-DD Optical Transceivers – MapYourTech

What is QSFP-DD? QSFP-DD is an advanced hot-pluggable optical transceiver form factor that doubles the bandwidth density of traditional QSFP28

QSFP DD Cable Assemblies | High Speed Input Output

Amphenol's QSFP DD (Quad Small Form Factor Pluggable Double Density) copper cable assemblies double the number of channels from 4 to 8

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

QSFP-DD Optical Transceivers for High-Speed Connections

Cisco offers a comprehensive portfolio of QSFP-DD modules across copper, multimode fiber, and single-mode fiber, optimized for a broad range of applications and distances, leveraging NRZ, PAM4, and

Optical Module Technology Roadmap | 800G to 3.2T Evolution

QSFP-DD MSA: Defining thermal and electrical specifications for higher speeds CPO MSA: New MSA forming to standardize co-packaged optics interfaces Interoperability Testing: As

Form Factor

Juniper supports the QSFP-DD (Quad Small Form Factor Pluggable Double Density) form factor for 400G transceivers. QSFP-DD uses an 8x50G electrical interface to achieve a total

SFF-8665 QSFP+ 4X Pluggable Transceiver Solutions

4 3 QSFP+ 4X pluggable transceiver solutions including: QSFP10, QSFP14, QFSP28, QSFP56, QSFP112, and QSFP224. 5 Other standards (e.g., IEEE, FC-P1-6, etc.) define the performance

Global Optical Transceivers Market Research Report 2026: Trends ...

Comprehensive analysis of the optical transceivers market, covering market size, major manufacturers, product types, applications, and emerging technology trends like silicon photonics and co-packaged

QSFP-DD Interconnect System & Cable Assemblies

Molex QSFP-DD (Double Density) Interconnect System and Cable Assemblies feature an eight-lane electrical interface that transmits up to 28Gbps

QSFP DD Cable Assemblies | High Speed Input Output

Amphenol's QSFP DD (Double-Density) Loopback Modules are part of Amphenol's comprehensive QSFP DD product family offering - cables,

Next-Generation Hybrid Optical Interconnect for 400G

The 400G QSFP-DD HYBRID VR8-AOC leverages GIGALIGHT's patented Hybrid Active Optical Cable (Hybrid AOC) technology. Unlike traditional

QSFP-DD Connectors, Cages and Cable Assemblies

TE offers a complete vertically integrated manufacturing solution, with expertise in both connector and thermal development. TE's next generation QSFP-DD

The Gear Page

Join a vibrant community of musicians and gear enthusiasts discussing instruments, effects, setups, and more on The Gear Page forum.

QSFP-DD CONNECTORS & CABLE ASSEMBLIES PRODUCT

TE Connectivity's (TE) QSFP-DD (quad small form-factor pluggable double density) doubles the density of QSFP interconnects with an eight-lane electrical interface capable of 28 Gbps NRZ or 56 Gbps

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

Understanding QSFP-DD Cable: A Comprehensive

Explore the QSFP-DD cable in our comprehensive guide, covering 400G connectivity, double density technology, and passive copper cable

Creating Connections for Life | Molex

We believe in the transformative power of creating connections. Around the world and across industries, Molex is enabling next-generation technology for data

AI Data Center Optics: Validation & Testing Handbook 2026

The complete operator guide to AI data center optics validation — sample testing, 5-check bring-up, DOM baselines, burn-in, and triage. 23 chapters, 15 reference cards.

QSFP-DD Optical Transceivers for High-Speed

When combined with higher transmission rates per electrical interface (28 Gbps to 56 Gbps to 112 Gbps), QSFP-DD optical transceivers can increase

Contact Us

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