

Suppliers of QSFP-DD optical switches for cloud computing



AI Overview

Leading suppliers of QSFP-DD optical switches for cloud computing include Cisco, Arista, Mellanox (NVIDIA), Juniper, and QSFPTEK, offering 400G/800G high-density, low-latency solutions.

Key Vendors and Solutions

1. **Cisco** Cisco provides QSFP-DD compatible switches designed for hyperscale data centers and cloud environments. Their switches support 400G and scalable 800G connectivity, with backward compatibility for QSFP28 and QSFP56 modules, enabling seamless upgrades without replacing existing infrastructure.
2. **Arista Networks** Arista offers high-performance QSFP-DD switches optimized for AI clusters and cloud computing. These switches support 8 lanes of 50G PAM4 signaling per port, delivering 400G aggregate bandwidth, and are engineered for low-latency, high-density deployments.
3. **Mellanox (NVIDIA)** Mellanox, now part of NVIDIA, provides QSFP-DD switches and interconnect solutions for HPC and cloud data centers. Their switches are designed for 400G/800G networks, supporting both QSFP-DD and legacy QSFP modules, ensuring flexibility in large-scale deployments.
4. **Juniper Networks** Juniper's QSFP-DD switches are tailored for cloud and hyperscale data centers, offering high port density and support for PAM4 signaling. They are compatible with modern 400G and 800G transceivers, enabling scalable network expansion.
5. **QSFPTEK** QSFPTEK specializes in high-density optical transceivers and switches for AI, HPC, and cloud computing. They provide cost-effective, reliable QSFP-DD solutions, including 400G/800G modules, DACs, and AOCs, trusted by over 3,000 business users for data center interconnects.

Technical Considerations

Compatibility: QSFP-DD switches must support 50G PAM4 per lane to achieve 400G throughput and ideally allow downshifting to 25G NRZ for legacy QSFP28 modules.

Power Requirements: Modern...

Article Content

Third-Party Optical Transceivers Market Report 2025

Third-Party Optical Transceivers Market Dublin, May 28, 2025 (GLOBE NEWSWIRE) --
The "Third-Party Optical Transceivers Market by Data

QSFP-DD TRANSCEIVERS for 400G and 800G

Download the overview datasheet for QSFP-DD transceivers, or browse all our transceivers, AOC and DAC cable assemblies. At Smartoptics, we believe

#opticalnetworking #cfp2 #coherentoptics #800g #cpo # ...

□□ The optical transceiver keeps evolving — and the portfolio keeps expanding. CFP2 remains a workhorse for coherent metro and long-haul, with CFP2-DCO modules still widely deployed where ...

400G QSFP-DD LR4 Optical Transceiver for High-Performance

□□ OEM/ODM 400G QSFP-DD LR4 – Built for High-Performance Networks As AI, cloud computing, and hyperscale data centers continue to drive demand for higher bandwidth, reliable 400G optical ...

Optical Transceiver Market Size, Share, Industry Report

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025. The market is expected to grow from USD 15.4 billion in

Post 86 of 127 : Transceiver Firmware and CMIS

A QSFP-DD module running 400G into a hyperscale switch responds to I²C commands, reports temperature and optical power telemetry, and supports over-the-air firmware upgrades —

Transceiver Types for High-Speed Networking

□□ Transceiver Types at a Glance – The Backbone of High-Speed Networking! □□✂ As network infrastructures continue to evolve, selecting the right transceiver module is essential for ...

Marvell Technology, Inc. | Essential technology, done right

Designed for your current needs and future ambitions, Marvell delivers the data infrastructure technology transforming tomorrow's

Optical Transceivers Market Size Report, 2026-2033

Rising cloud traffic further supported momentum, with QSFP-DD and QSFP56 emerging as preferred form factors for next-generation switching platforms.

How to Choose the Right Fiber Optic Cable for Your Optical

Learn how to choose the right fiber optic cable for SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP-DD, and OSFP optical transceivers. Avoid common fiber compatibility mistakes and improve

Optical Modules Market Research Report 2034

The QSFP (Quad Small Form-factor Pluggable) form factor family, encompassing QSFP+, QSFP28, QSFP56, and QSFP-DD variants, was the dominant form

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+ Cables, MiniSAS Cables, QSFP Cables, XFP Cables, CX4 Infiniband Cables

Optical Transceivers

They are essential for scalable network infrastructure, helping businesses meet the demands of cloud computing, AI, streaming, and real-time applications with

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

AI Optical Transceiver Market: \$15.44B by 2025, 11.1% CAGR

The AI Optical Transceiver market is projected to reach \$15.44 billion by 2025, driven by expanding large model training and data center infrastructure needs. Obtain analytical insights and

QSFP-DD Compatible Switches: Complete 2025

Find which switches support QSFP-DD modules. Our 2025 guide covers Cisco, Arista, Juniper and NVIDIA platforms with backward compatibility tips.

HPC Optics | SFP, SFP+, XFP, QSFP, QSFP28, QSFP

HPC Optics is a leading supplier of fiber optic transceivers and active optical cables (AOC). Our transceivers are ideal for high-performance computing networks in

Networking Solutions for the Era of AI | NVIDIA

Networking Purpose-Built for the Era of AI Factories AI factories now span tens of thousands of GPUs—and soon, millions—operating as a single distributed

Optical Transceiver Market Size, Growth Drivers

Innolight scales 800G QSFP-DD on the back of domestic wafer capacity, shortening lead times for North American cloud imports. Overall, the

SONiC 32-Port 400G Data Center Switch Low Latency For AI/ML

Built on the Marvell Teralynx platform, it delivers 12.8 Tbps of line-rate L2/L3 throughput with ultra-low latency as low as 500ns, meeting the stringent performance demands of AI/ML clusters, hyperscale

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

Contact Us

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