

In-stock AI Server QSFP-DD



Overview

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe[®] Gen 5.0 over optical link, enabling scalable server disaggregation and efficient rack-to-rack interconnects ideal for AI/ML and rack-scale data center expansion. In one real-world case, a large AI research organization discovered that its GPU cluster was operating at no more than 60% utilization. This raised a critical question: should they invest in better analytics frameworks, or were they effectively wasting millions of dollars in compute resources due. The InfiniBand solution for her team's new AI cluster would cost \$680,000. The RoCEv2 Ethernet option using QSFP-DD 800G came in at \$410,000. The performance specs showed only a 5% difference in all-reduce benchmarks. "That's \$270,000 for 5%," she thought. Equipped with 64x 400GE ports supporting wire-speed forwarding, it integrates the AI Fabric solution. Leveraging technologies like DLB, it enhances AIGC. However, with multiple form factors—QSFP-DD, QSFP112, and OSFP—each tailored to specific deployment and upgrade needs, choosing the right 400G NIC is no simple task. It is being developed by the QSFP-DD MSA as a key part of the industry's effort to enable high-speed solutions.

Article Content

Oct 21, 2025

QSFP-DD for AI Data Centers: 400G/800G GPU Interconnect Guide

Learn how QSFP-DD optical transceivers enable AI data centers with 400G/800G bandwidth. Compare modules, architectures, and deployment strategies for GPU clusters.

Nov 12, 2025

FS 400G QSFP-DD: Complete Guide and Solutions

Explore FS 400G QSFP-DD transceivers and cables for cost-effective, low-power, and scalable 400G data center connectivity, supporting

Oct 22, 2025

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

Sep 24, 2025

Optimizing AI Networks: Connecting 400G Ports with Backward

This article explores how to connect 400G ports with backward-compatible QSFP-DD modules while leveraging QSFP112 transceivers for AI servers, ensuring scalable, low-latency, and high-bandwidth

Apr 08, 2026

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

Feb 17, 2026

200G QSFP-DD to 4x50G SFP56 Active Optical Breakout Cable

200G QSFP-DD to 4x50G SFP56 Active Optical Breakout Cable - 1 meter High-quality optical transceiver from EDGE Optical Solutions.

Apr 28, 2026

Choosing 400G NICs by Network Interface: OSFP,

Learn how to choose the right 400G adapter for AI, HPC, and cloud data centers based on performance, throughput, and deployment needs.

Mar 20, 2026

GIGALIGHT 400G QSFP-DD SR4, Exclusive Design To

The transmission rate of 400G/800G, just like a powerful digital trend, is redefining data centers infrastructure. In this article, Gigalight introduces you to

Jan 11, 2026

NVIDIA/Mellanox 1.5m 400G OSFP DAC Twinax Cable(Passive,

337 In Stock 453 Sold US\$ 95.00 1m (3ft) NVIDIA/Mellanox MCP1660-W001E30 Compatible 400G DAC QSFP-DD 8x50G PAM4 to QSFP-DD 8x50G PAM4 Passive Direct Attach Copper Cable 1 In Stock

Jun 21, 2026

64-port 400G QSFP-DD 25.6T Ethernet 2U Switch for AI Data Center

Featuring redundant designs and multiple reliability mechanisms, it supports fast deployment and flexible management, meeting the network requirements of scenarios such as AI, machine learning, and high

Mar 29, 2026

QSFP-DD vs. OSFP: From 400G to 800G and Beyond

Today, 25G server ports are becoming more common, especially in Hadoop/HBase or other BI, datamining, and reporting applications. The advantage

Feb 24, 2026

AI Data Center Networking: QSFP-DD Guide for GPU Clusters

Deploy QSFP-DD for AI clusters with confidence. Learn bandwidth requirements, QSFP-DD vs OSFP for AI, and GPU cluster sizing.

Feb 14, 2026

Arista QDD-400G-PLR4-Arista | 400G QSFP-DD Transceiver, Single

The Arista QDD-400G-PLR4 is a 400GBASE-PLR4 QSFP-DD optical transceiver designed for high-performance data center and enterprise network applications. It delivers 400 Gigabit Ethernet

Oct 15, 2025

Huawei QSFP

Huawei QSFP- price from Huawei price list 2022, Huawei router price, Huawei switch price

Aug 19, 2025

SFP, SFP+ & QSFP Compatibility Guide: Aruba, Juniper, Fortinet

Blue Cable Co compatible transceivers for Aruba, Juniper, Fortinet, Arista & more. Australian stock, 5-year warranty. Compare OEM vs Blue Cable Co.

Dec 12, 2025

QSFP-DD vs OSFP: What Are the Differences?

The width, length and thickness of QSFP-DD are 18.35mm, 89.4mm and 8.5mm, while those of OSFP are 22.58mm, 107.8mm and 13.0mm. It is obvious that the

May 16, 2026

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

Oct 10, 2025

Choosing 400G NICs by Network Interface: OSFP,

Explore FS 400G NICs and their network interfaces—OSFP, QSFP-DD, and QSFP112. Learn how to choose the right 400G adapter for AI, HPC, and

Oct 04, 2025

QSFP-DD Cables • OSFP Cables

Cables on Demand offers the public factory-direct access to the very same Amphenol High-Speed I/O brand QSFP-DD and OSFP Direct Attach Copper

Nov 17, 2025

Optical Transceiver Market Size, Share, Industry Report

Growth is driven by hyperscale adoption of 800G and emerging 1.6T architectures requiring higher power and thermal headroom than QSFP-DD form factors. OSFP

May 17, 2026

NVIDIA/Mellanox MMA4Z00-NS-T Compatible Coherent

Can I use 800G OSFP optical modules for 800G QSFP-DD ports? No, OSFP and QSFP-DD are different size packages, the physical size is not the same, so they

Nov 09, 2025

QSFP-DD for AI Data Centers: 400G/800G GPU Interconnect Guide

This guide explores key technical features for GPU clusters, examines spine-leaf architectures for distributed AI applications, and evaluates whether QSFP-DD or OSFP is better

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://elagage-lorrain.fr>

Email: sales@elagage-lorrain.fr

Phone: +33 6 47 82 19 35

Address: 15 Rue de la République, 69002 Lyon, France

This document is for informational purposes only. Specifications subject to change without notice.

