# Supplier AI Server QSFP-DD


## Overview

This high-precision die-cast housing is specifically designed for QSFP-DD (Quad Small Form-factor Pluggable – Double Density) optical transceivers. Engineered to meet the rigorous demands of next-generation data centers, it supports eight-lane interfaces for 400G and emerging 800G. 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. Explore how AI clusters are reshaping network architecture, from XPU-centric design to multi-plane scalability, and learn how 800G modules enable high-performance, low-latency interconnects for modern AI data centers. In the design of AI computing clusters, Scale-Up and Scale-Out have different. Scaling hyperscale cloud facilities, AI computing clusters, and Data Center Interconnects (DCI) demands more than just raw speed; it requires elite thermal management and zero-packet-loss signal integrity. The 400G transceiver modules are ideal choice for AI data centers, enterprise networks and service provider networks. QSFP-DD extends the use. 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. Her CFO would ask hard questions about.

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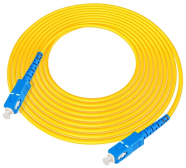
This article explores how to interconnect OSFP and QSFP-DD ports in 400G/800G networks, covering key principles, form factor differences, and practical solutions for stable, high-speed data center ...

SFP vs SFP+ vs QSFP28 vs QSFP-DD: Master optical transceiver selection for 1G to 800G AI networks with our lab-verified guide.



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 compatible with QSFP.

Systems designed with QSFP-DD modules will be backwards compatible, allowing them to support existing QSFP-DD or QSFP modules and provide flexibility for end users and system designers.

Systems designed with QSFP-DD ports are backwards compatible to support existing QSFP+, QSFP28, and QSFP56 modules. This provides flexibility for network designs and migrations to next-generation ...

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|  | Direct OEM/ODM manufacturer of 100G/200G transceivers for AI clusters & hyperscale cloud. 100% tested 100G QSFP28, 200G QSFP56, QSFP-DD & CFP2 solutions. |
|  | Deploy QSFP-DD for AI clusters with confidence. Learn bandwidth requirements, QSFP-DD vs OSFP for AI, and GPU cluster sizing. |
|  | FS provides an expanding portfolio of 400G OSFP/QSFP112/QSFP-DD solutions featuring high-performance, high-bandwidth, and backward compatibility. The 400G transceiver modules are ideal ... |
|  | Learn how QSFP-DD optical transceivers enable AI data centers with 400G/800G bandwidth. Compare modules, architectures, and deployment strategies for GPU clusters. |
|  | This high-precision die-cast housing is specifically designed for QSFP-DD (Quad Small Form-factor Pluggable – Double Density) optical transceivers. Engineered to meet the rigorous demands of next ... |

## Contact Us

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