

RoHSAI 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. The FS[®] 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a wide variety of super high-density transceiver modules and the flexibility of 400 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and. The Cisco[®] family of QSFP-DD modules provide the industry's highest bandwidth density while leveraging the backward compatibility to lower-speed QSFP pluggable modules and cables. It is being developed by the QSFP-DD MSA as a key part of the industry's effort to enable high-speed solutions. This white paper shares the key factors in successful test, troubleshooting and validation of QSFP-DD modules for module developers, network element manufactures and end users. Client interface speeds have seen a.

Article Content

QSFP-DD Connectors, Cages and Cable Assemblies

QSFP-DD provides high-performance computing capability. The QSFP interconnects density is doubled with electrical interface, providing superior thermal and signal integrity.

What are breakouts and how do you use them?

Network connectivity using breakout mode is becoming increasingly important as new high-speed ports become available on switches, routers, and other communication equipment.

Optical Transceivers from 1G to 400G | Solid Optics

Compatible optical transceivers 1G, 10G, 25G, 40G and 100G in multiple form factors including SFP, SFP+ XFP, QSFP+, QSFP28 and CFP with a lifetime warranty.

QSFP Cables Explained 2025: Types, DAC vs AOC, and DC Use Cases

Learn about QSFP cables: QSFP+, QSFP28, QSFP56, QSFP-DD. Compare DAC vs AOC, speeds, lengths, and use cases in data centers. Includes compatibility and tips.

Connectivity in the Era of Big Data: Adapting with QSFP28, SFP-DD,

This article discusses the transition of server connection speeds in data centers from 10GE and 25GE to 100GE and beyond. It introduces QSFP28, SFP-DD, and DSFP optical

QSFP-DD Optical Transceivers for High-Speed Connections

Cisco's comprehensive portfolio of QSFP-DD modules support 400G and 800G data rates across copper, multimode fiber, and single-mode fiber, and are optimized for a broad range of

QSFP-DD Module Testing

QSFP-DD optical modules are the mainstream form factor for 400G client interfaces. This white paper shares the key factors in successful test, troubleshooting and validation of QSFP-DD modules for

What is QSFP-DD Transceiver: A Beginner Guide (2022)

QSFP-DD transceiver is becoming increasingly popular in data center applications nowadays. In this beginner's guide, we will take a closer look at the QSFP-DD transceiver, introduce

QSFP-DD Hardware

August 7, 2020 Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double

400G QSFP-DD Cable and Transceiver Modules Data Sheet

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. They are suitable for very short links and offer a cost-effective way to establish a 400-Gigabit link between QSFP-400G ports of

QSFP-DD Transceiver Guide 2026: Complete 400G/800G Deployment

Master QSFP-DD transceiver deployment for 400G/800G networks. Compare module types (SR8/DR4/FR4/LR4), cable options, pricing, and implementation best practices.

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

Cisco 400G QSFP-DD Cable and Transceiver Modules

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. QDD-400-CuxM cables are suitable for very short links and offer a cost-effective way to establish a 400-Gigabit link between QSFP-DD

800G Transceivers: QSFP-DD vs OSFP, Which to Choose?

Learn the main differences between the two packages of 800G transceivers, QSFP-DD and OSFP, and compare their similarities and differences in 4 aspects: form factor, power

Cisco QSFP-DD800 Transceiver Modules Data Sheet

For more information and references on QSFP-DD cable guides, please click on the following link: [Cisco Transceiver Modules - Brochures - Cisco](#) Cisco QSFP-DD800 transceiver

SFP vs SFP+ vs QSFP vs QSFP28 vs QSFP-DD: Upgrade Guide

SFP, SFP+, QSFP, QSFP28, and QSFP-DD differ in bandwidth, lane architecture, physical size, power draw, and upgrade path. SFP-family modules are best for lower-speed edge

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

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support scalable 400G/800G data center networks.

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

400G isn't just for hyperscale data centers anymore. With new Intel and AMD products on the market, it is common for each server to push beyond 10G. In turn, Top of Rack (ToR) or End of

QSFP-DD Hardware

QSFP-DD MSA family of modules and cages remain fully backward compatible with the classic QSFP+ formfactor. This document provides a common specification for systems manufacturers, system

QSFP-DD Optical Module Overview: What is the differ?

This article will introduce the next generation optical module in detail, QSFP-DD, also known as quad small factor pluggable, and this article will also introduce the difference between

Contact Us

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