

Wholesale carrier-grade routers QSFP-DD



AI Overview

Carrier-grade routers with QSFP-DD support offer high-density, 400G-capable, wholesale-ready solutions for data centers and service provider networks. Overview of QSFP-DD Modules QSFP-DD (Quad Small Form-factor Pluggable Double Density) modules are high-speed optical transceivers designed for 400G Ethernet applications, supporting multiple line rates and interoperability standards such as OpenZR+, OpenROADM, and OIF agreements. They are hot-pluggable and backward-compatible with QSFP28 modules, making them ideal for high-density data center interconnects, metro/regional networks, and service provider edge deployments. Common variants include: SR8: Short-range, up to 100m on MMF; LR4: Intermediate reach, 500m–2km on SMF; LR8: Long-range, up to 10km. These modules use PAM4 modulation with 8 electrical channels (400G AU1-8) and support digital diagnostic monitoring (DDM) for operational reliability.

Carrier-Grade Routers Supporting QSFP-DD High-performance routers designed for carrier-grade applications integrate QSFP-DD ports to handle ultra-high bandwidth and low-latency traffic. Examples include:

- UfiSpace S9710-76D:** A 400G disaggregated open router suitable for core and edge networks. It can operate standalone or as part of a distributed disaggregated chassis (DDC), scaling up to 691Tbps. Features include Broadcom J2C+ chipset, 16GB deep buffering, 14.4Tbps switching capacity, and support for non-stop routing and fault monitoring, making it ideal for telecom and service provider networks.
- Acacia QSFP-DD-enabled solutions:** These leverage Delphi DSP ASICs and silicon photonics for optimized co-packaged designs, supporting 800G data center interconnects and metro/regional Ethernet networks.

Wholesale Availability Several suppliers provide wholesale QSFP-DD modules and routers:

- Unitek fiber:** Offers a wide range of MSA-compliant transceivers including 200G QSFP-DD and 400G QSFP-DD modules, engineered for low latency and high re...

Article Content

What is QSFP-DD Transceiver: A Beginner Guide

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 Connectors | High Speed I/O | Amphenol

The QSFP-DD family supports legacy QSFP channels on the front interface and four additional channels on the rear interface. This interconnect

QSFP-DD Wholesale: Best Deals & Verified Suppliers

Looking for QSFP-DD wholesale? Discover verified suppliers with low MOQ, competitive pricing, and advanced features like PAM4 modulation and real-time monitoring.

Do QSFP+ over 100km modules exist? : r/networking

The new QSFP-DD form factor does coherent 100G-400G (1000km+ at 100G QPSK) but you'll need a platform that supports the interface. A lightweight transponder (we've used smartoptics dcp-404, not

200G QSFP56/QSFP-DD Cable and Transceiver Modules Data Sheet

200G QSFP-DD to 8x SFP28 200G AOC cables (Figure 14) are suitable for short distances and offer a flexible way to connect within racks and across racks. Active optical cables are

Carrier-Grade Infrastructure Solution Brief: Deploying Bulk Network Routers

CARRIER-GRADE INFRASTRUCTURE SOLUTION BRIEF: DEPLOYING BULK NETWORK ROUTERSEXECUTIVE SUMMARYApexTel™ Bulk Network Router Series (BNR9000) represents a

QSFP-DD Optical Transceivers Unlocking Faster

QSFP-DD Optical Transceivers deliver up to 800Gbps speeds, offering high bandwidth, energy efficiency, and compatibility for modern networks

QSFP-DD Optical Transceivers for High-Speed Connections

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or placed between modules. This flexibility enables switch and routing

QSFP DD SR4 Wholesale: Best Deals & Suppliers

Find top QSFP DD SR4 wholesale suppliers with low MOQ, verified vendors, and custom options. Click to discover reliable 400G/100G transceivers for high-speed networks.

SFP vs. QSFP: Differences, Use Cases, and How to Choose

Compare SFP vs. QSFP transceivers: key differences, speeds, distances, costs, and expert guidance to choose the right module for your network architecture.

QSFP-DD Optical Transceivers for High-Speed

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

Source Photonics Wins ECOC Industry Award for its Family of

Source Photonics Wins ECOC Industry Award for its Family of Telecom Grade 400G QSFP-DD and 100G QSFP28 PAM4 Product Solutions for Optical Transport Applications

Source Photonics' telecom-grade 400G QSFP-DD and 100G QSFP28

News: Optoelectronics 21 September 2022 Source Photonics' telecom-grade 400G QSFP-DD and 100G QSFP28 PAM4 products win ECOC Industry Award for Optical Transport At the European

QSFP-DD Connectors, Cages and Cable Assemblies

TE offers a broad QSFP-DD portfolio which includes 1x1 to 1x6 cages and SMT connectors. Custom lightpipes, heatsinks are also available. Double the density

QSFP-DD Product Family » Acacia

Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links

QSFP-DD CONNECTORS & CABLE ASSEMBLIES PRODUCT

Our QSFP-DD cages feature a proprietary heat sink design, making them the only solution to work in 15-18W applications at a low cost – providing superior thermal and signal integrity performance.

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry's highest bandwidth density while leveraging the backward compatibility to lower

Wholesale China QSFP-DD Suppliers, Manufacturer

Explore the benefits of partnering with a trusted QSFP-DD supplier in China, and discover how our innovative solutions can enhance your operational efficiency and drive your business forward.

QSFP Versus QSFP-DD Here Are the Key Differences

QSFP-DD was designed in such a way that you should be able to plug QSFP devices into QSFP-DD cages and have them work. The reverse is not

Comprehensive Guide to QSFP – MapYourTech

Service providers are deploying coherent QSFP-DD modules directly in routers, eliminating separate transponder equipment. This architecture

QSFP Data Rate Explained: 40G to 800G Speed Guide

QSFP data rate ranges from 40G to 800G depending on the module generation. QSFP+ supports 40Gbps (4 × 10G) QSFP28 supports 100Gbps (4 × 25G) QSFP56 supports 200Gbps (4 ×

How to Choose QSFP Modules: 40G, 100G & QSFP-DD Guide

Learn how to choose QSFP modules for 40G, 100G, QSFP28, QSFP56, and 400G QSFP-DD networks. Compare speed, distance, fiber type, compatibility, and LINK-PP products.

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

Specification – QSFP-DD

July 11, 2019 – QSFP-DD Hardware Specification for QSFP DOUBLE DENSITY 8X PLUGGABLE TRANSCEIVER – Rev 5.0 May 8, 2019 – Common Management Interface

Contact Us

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