

Certified Carrier-Grade Router QSFP-DD



Article Overview

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) modules deliver 400G and 800G high-density connectivity for carrier-grade routers and data center networks.

Overview of QSFP-DD

QSFP-DD is an advanced evolution of the QSFP form factor, designed to double lane density from 4 to 8 high-speed electrical lanes, supporting aggregate data rates of 400G and beyond using PAM4 signaling at 50G per lane . It maintains backward mechanical compatibility with QSFP28 and QSFP56 cages, enabling seamless upgrades without increasing port space or power consumption . The standard is maintained by the QSFP-DD Multi-Source Agreement (MSA) and is widely adopted in carrier-grade, cloud-scale, and AI-driven networks .

Key Features for Carrier-Grade Routers

- **High Bandwidth Density:** Supports 400G Ethernet and breakout options to 4x100G or 8x50G, enabling flexible deployment in core, edge, and aggregation layers .
- **Interoperability:** Certified modules are tested on platforms from Cisco, Arista, Juniper, and Dell, ensuring reliable performance in multi-vendor environments .
- **Electrical and Optical Standards:** Compliant with IEEE 802.3bs, 400GAUI-8, CEI-56G-VSR-PAM4, and 400GBASE-SR4/FR4/DR4 standards .
- **Hot-Pluggable Design:** Allows easy replacement or upgrades without network downtime .
- **Extended Reach Options:** Modules support multimode fiber (up to 100m over OM4...

Article Content

Cisco QSFP-DD Pluggable Open Line System (QSFP-DD OLS)

Product overview The Cisco® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together

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

800G QSFP-DD Digital Coherent Optics Transceiver

High transmitter optical output power enable the transceivers to be compatible with deployed and emerging ROADM line systems.

Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

40G QSFP+ TRANSCEIVERS | Smartoptics

QSFP-DD transceivers dQSFP+ is a cost-efficient solution for 40G Ethernet that is popular for breakout to maximize fiber utilization.

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry's highest bandwidth density

The Ultimate Guide to Cisco QSFP Optical Transceiver Modules

The QSFP standard was followed by Cisco's QSFP optical transceiver modules, which were created for fast data

AGR600 Aggregation Router

The AGR600 is a high-performance 800GbE aggregation router with 32 QSFP-DD ports in a compact 2RU

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

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

7280R3A Series Data Center Switch Router

7280R3A systems with OSFP or QSFP-DD incorporate a flexible choice of interface speed including 25G and 50G and support for

Understanding the QSFP-DD Standard: The Foundation of 400G

The QSFP-DD specification, maintained by the QSFP-DD Multi-Source Agreement (MSA) and built upon SFF-8679

Cisco 100GBASE QSFP-DD 100G ZR Module Data Sheet

The Cisco 100G Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) 100G ZR provides customers with a

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,

7280R3A Modular Data Center Switch Router

Arista's R3A platforms are optimized to support high power 400ZR OSFP and QSFP-DD optical modules. 400ZR modules are

Differences Between QSFP-DD and QSFP+ / QSFP28 / QSFP56 /

QSFP-DD ports incorporate a riding heatsink, which can be sized independently of the optical module and is positioned

400G QSFP-DD Cable and Transceiver Modules Data Sheet

Certified and tested on Cisco, Arista, Juniper, Dell QSFP-DD ports for superior performance, quality, and reliability. For more details,

40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for

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)

Specification – QSFP-DD

August 7, 2020 – QSFP-DD Hardware Specification for QSFP DOUBLE DENSITY 8X PLUGGABLE TRANSCEIVER

Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics Module Data

The Cisco 400G QSFP-DD Ultra Long-Haul Coherent Optics Module enables 400G traffic anywhere over dense

Contact Us

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