

Metro-Grade OTN Router QSFP-DD Selection Guide



Overview

This guide provides a clear overview of 400G ZR QSFP-DD standards, specifications, and selection criteria for coherent pluggable optics in metro and long-haul networks. QSFP-DD ZR Coherent Optics presents a sea of change in the field of optical transportation architecture. The product supports 100Gbps transmission speeds in an. The QSFP-DD OLS is a pluggable open line system solution that can be directly hosted on a Cisco router. The Cisco® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together with the channel breakout options (described later), provides a simple yet powerful open. The 4. The DP01QS28-E20 and DP01QS28-E25 transceivers enhances the Routed Optical Networking solution by adding a 100G-only tuneable optic which be used across both. Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D.

Article Content

Jan 19, 2026

Metro-edge solutions

Complete portfolio of pluggable coherent optics including 100Gb/s, 400Gb/s and 800Gb/s transceivers available in industry-standard formats including QSFP28, QSFP-DD, QSFP-DD800 and CFP2 for ...

Mar 10, 2026

Comprehensive Guide to QSFP – MapYourTech

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

Mar 20, 2026

QSFP28 vs. QSFP-DD: How to Select the Right ...

This guide provides a clear, engineer-focused comparison of QSFP28 and QSFP-DD, covering electrical design, supported data rates, power ...

Oct 08, 2025

QSFP-DD ZR Coherent Optics: 400G Metro & Long-Haul Guide

This guide provides a clear overview of 400G ZR QSFP-DD standards, specifications, and selection criteria for coherent pluggable optics in metro and long-haul networks.

Jul 12, 2025

QSFP28 vs. QSFP-DD: How to Select the Right 100G/400G Module

This guide provides a clear, engineer-focused comparison of QSFP28 and QSFP-DD, covering electrical design, supported data rates, power consumption, compatibility considerations, ...

Mar 12, 2026

Cisco Routed Optical Networking | Design | XRdocs

Technology advancements have shrunk the DCO components into the standard QSFP-DD form factor, meaning no specialized hardware and the ability to use the highest capacity routers ...

Feb 12, 2026

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

A simple on-paper calculation considering the QSFP-DD OLS gain, power in/out of the fiber, the N-channel Add/Drop device, and the sensitivity of the QSFP-DD optical source can yield a link design.

Sep 28, 2025

QSFP-DD Product Family » Acacia

Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D Siliconization. Supports an expansive list of interoperability ...

Apr 10, 2026

QSFP-DD-Metro and Long Haul Optical Networking

The product supports 400Gbps transmission speeds in an industry-standard, pluggable QSFP-DD form factor with 7nm DSP and can be widely used in metro carrier, access and Cloud/DCI applications.

Jun 05, 2026

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 Specification - Rev 4.0

Nov 22, 2025

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

QSFP-DD transceivers are a leading solution in high-speed 200G, 400G, and 800G applications. The differences between QSFP-DD and ...

Contact Us

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

Website: <https://professionistidelverde.it>

Email: info@professionistidelverde.it

Phone: +49 176 4829 3715

Address: Friedrichstraße 123, 10117 Berlin, Germany

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

