



Selection Guide for Metropolitan Area Network-Grade Coherent Optical Modules QSFP-DD

Preview

The guide serves as an all-inclusive 400G QSFP-DD module type reference. The module specifications and fiber requirements and breakout capabilities and power profiles will be presented to you. For a complete overview of QSFP-DD technology, see our QSFP-DD transceiver. 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. 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. What makes QSFP-DD ZR coherent optics different from conventional optics? 10. 3. The QSFP-DD transceiver has become the standard format for 400G and 800G connections because it delivers backward compatibility and high port density and future-proofing protection which most installations need. The guide provides complete information required for successful QSFP-DD transceiver. Cisco offers a range of GBIC, SFP, XFP, SFP+, CXP, CFP, Cisco CPAK, and QSFP+ pluggable modules. These small, modular optical interface transceivers offer a convenient and cost-effective solution for an array of applications in the data center, campus, metropolitan-area access and ring network. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+.

This article explores the technical characteristics, product lineup, and use cases of 400G OSFP/QSFP-DD/QSFP112

QSFP-DD MSA family of modules and cages remain fully backward compatible with the classic QSFP+ formfactor. This document

The guide provides complete information required for successful QSFP-DD transceiver

Complete technical guide to NVIDIA optical transceivers featuring QSFP-DD and OSFP form factors. Learn about

Discover the world of SFP, SFP+, and QSFP transceiver modules and find out which one fits your networking

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

The definitive guide to SFP, QSFP, and QSFP-DD standards for 2025. Compare 400G/800G optics,



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understand

Learn what a QSFP module is, how QSFP+, QSFP28, QSFP56, and QSFP-DD differ, and how to choose the right

QSFP-DD56 - best port density, excellent power/thermal profile Various reaches, Silicon Photonics and Digital Coherent Optics (DCO)

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or

Advantages and Challenges While QSFP-DD optical modules are driving the rapid evolution

Discover everything about 800G optical modules--standards, packaging, types &

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative

QSFP-DD coherent optical transeivers include 100G QSFP-DD, 100G/200G/400G compliant QSFP-DD ZR and open ZR+,

Compare 400G QSFP-DD module types: SR8, DR4, FR4, LR4, and ZR. Learn specifications, fiber requirements,

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