

Offshore silicon photonics technology

QSFP-DD



Overview

QSFP-DD is an advanced hot-pluggable optical transceiver form factor that doubles the bandwidth density of traditional QSFP28 modules by implementing a double-density design with eight electrical lanes instead of four. 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+. As data traffic continues. 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. Smartoptics QSFP-DD transceivers provide cost-efficient 400G and 800G optical networking. As a. optical data communication applications from 100G to 400G. The 400G QSFP- DD ZR+ HO is designed for 100G/200G long haul and 300G/400G Metro IP over DWDM app -QPSK, 300G DP-8QAM, and 400G DP-16QAM modulation formats. With integrated EDFA and VOA the TX output optica ver is compliant with the OIF. Cisco offers a comprehensive range of pluggable optical modules in the Cisco® pluggables portfolio. The wide variety of modules gives you flexible and cost-effective options for all types of interfaces. Cisco offers a range of GBIC, SFP, XFP, SFP+, CXP, CFP, Cisco CPAK, and QSFP+ pluggable modules.

Article Content

QSFP-DD TRANSCEIVERS for 400G and 800G | Smartoptics

QSFP-DD is the most widely adopted form factor for 400G, with great potential for 800G. While QSFP-DD prioritizes backward compatibility, OSFP's larger surface area enables higher thermal efficiency ...

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

QSFP-DD Optical Transceivers – MapYourTech

Understanding QSFP-DD technology requires mastery of several fundamental concepts that underpin its operation. This section provides detailed explanations of the key principles, ...

Intel® Silicon Photonics 400G DR4 QSFP-DD Optical Transceiver

Intel® Silicon Photonics 400G DR4 QSFP-DD Optical Transceiver quick reference with specifications, features, and technologies.

InnoLight's QSFP-DD Optical Transceiver

This report is an exhaustive analysis of the InnoLight 400G QSFP-DD optical transceiver, including a full analysis of the laser die, photodiode die, the TIA circuit, GaAs laser driver circuit, the PAM4 DSP ...

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

Thanks to the miniaturization of the technology with a 7-nm manufacturing procedure and innovation in silicon photonic technology, it is now possible to squeeze a 400G-capable Digital Coherent WDM ...

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent Optics Modules ...

They expand Cisco routed optical networking applications to include 800G links and are compatible with Cisco and third-party 800G-capable routers, switches, and transponders with QSFP ...

Integrated Silicon Photonics Transmitter in 400GBASE-DR4 QSFP-DD ...

Abstract: We present the design and characterization of a 4-channel silicon photonics transmitter for 400Gbps DR4 data-center applications. A QSFP-DD transceiver module with this transmitter is ...

400GBASEZR/ZR+HOQSFP-DD HyperSilicon™ OpticalTransceiv

optical data communication applications from 100G to 400G. The 400G QSFP- DD ZR+ HO is designed for 100G/200G long haul and 300G/400G Metro IP over DWDM app.

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 ...

Contact Us

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