

Vietnam Coherent Optical Module QSFP-DD





Overview

VCHUNG's QSFP-DD DCO is a high-performance digital coherent optical module designed for long-reach transmission in metro, access, and Cloud/DCI applications. It supports 100G/400Gbps data rates with flexible client-side interfaces (100/400GbE, OTU4) and line-side FEC options. 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. ZR+, Standard Tx output power (-10dBm), C-band tunable, Pull tab, 0°C to 70°C, LC receptacle The emerging OIF 400ZR and Open ZR+ MSA coherent transceivers in QSFP-DD and OSFP form factors generally have low transmit output power (-10 dBm), making them incompatible with ROADM networks. The synergy between DWDM (Dense Wavelength Division Multiplexing) and routing technology stands as the linchpin for the realization of the 400G QSFP-DD DWDM optical module. With one VOA inside the TX optical path the out output optical power has 4dB attenuation window. This module is managed to utilize the Two Wire Interface that is s ide are provided through the optical receptacles on the QSFP-DD.



Vietnam Coherent Optical Module QSFP-DD

Coherent Optical Module: 400G QSFP-DD ZR/ZR

400G QSFP-DD ZR/ZR+ Optical Module Block Diagram of Transceiver Dimensions
Application Scenarios Data Center Interconnection: The 400G QSFP-DD ZR/ZR+

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Telecom Optical Module Market Research Report 2033

The Telecom Optical Module market was valued at \$24.8 billion in 2025 and is projected to reach \$47.3 billion by 2033, growing at 8.4% CAGR.

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QSFP-DD TRANSCEIVERS for 400G and 800G

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) transceivers double the number of high-speed electrical interfaces in QSFP to achieve 400G Ethernet

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400Gb/s QSFP-DD ZR+ Coherent Optical Transceiver

The 400G QSFP-DD ZR+ is a C-Band optical frequency tunable coherent optical module, combines 7nm coherent DSPASIC functionality with best in class ultra-narrow line-width tunable

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

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco

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We have the broadest portfolio of optical components and modules for transport applications. Subsystems are more differentiated and enable us to sell on features and capability.

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Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

Product overview: Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers capable of supporting up to a 200

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400G QSFP-DD DCO ZR Transceiver 400G QSFP-DD DCO ZR Coherent Optical



The QSFP-DD DCO modules based on 400G DP-16QAM supporting extended C-band, polarization diversity coherent detection, and advanced electronic link equalization. Chromatic dispersion

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A Deeper Dive into 400G QSFP-DD Transceiver with

This paper aims to unravel the intricacies of 400G DWDM coherent pluggable optical modules, driving advancements in coherent DWDM products for

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QSFP-DD Optical Module Overview: What is the differ?

The QSFP-DD is the smallest 400G form factor optical module on the market today. It is also the optical module that offers the highest transmission

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Pluggable Optical Module Market Research Report 2034

The integration of coherent optics into pluggable form factors, particularly the emergence of coherent QSFP-DD and OSFP modules, is democratizing long-haul transmission capabilities, allowing

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QSFP-DD DCO

The module features a standard QSFP-DD form factor, 76-pin MSA compliant connector, and compliance with RoHS and CMIS 5.0 standards. It uses advanced modulation formats like DP-QPSK

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Cisco 400G Digital Coherent Optics QSFP-DD Optical



Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers

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Global Optical Transceiver Market Strategic Audit 2026

QSFP-DD maintains relevance through backward compatibility in dense enterprise routing environments. QSFP28/SFP28: Highly commoditized form factors standardizing sub-100G Ethernet

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Optical Transceiver Module : Products & Solutions , NEC

Coherent Optical Transceiver 400G 400G QSFP-DD DCO Transmission distance : 300 to 8,000km

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Optical Transceiver Solutions for Cloud Performance

Explore advanced optical transceiver technology for hyperscale environments, ensuring performance and reliability across platforms.

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400G Digital Coherent Optics: Optech's QSFP-DD

The 400G coherent optics modules transmit 400 Gbps over a single DWDM wavelength, enabling high-capacity links without requiring multiple fibers.

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400G QSFP-DD DCO ZR+ Coherent Optical Transceiver QSFP-DD

Ascent's 400G ZR+ QSFP-DD Digital Coherent Optic Modules are 400 Gb/s Quad Small Form Factor Pluggable- double density (QSFP-DD) transceivers designed for 480 km



optical

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400GBASE ZR+ QSFP-DD DWDM LC SMF SiPh Optical Transceiver Module

The 400G QSFP-DD ZR+ is designed to 100G/200G long haul and 300G/400G Metro IP over DWDM applications without inline chromatic dispersion compensation.

The 400G QSFP-DD ZR+

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Coherent Optical DSPs

Coherent DSPs for pluggable modules The Marvell coherent DSP portfolio, including Orion(TM), Canopus(TM) and Deneb(TM) platforms, empower the optical module

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Optical Transceiver Market Size, Share, Industry Report

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025. The market is expected to grow from USD 15.4 billion in

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Eoptolink

Eoptolink - market leader in high speed optical transceivers: 800G QSFP-DD800 & OSFP, 400G QSFP56-DD, QSFP112, OSFP, 200G QSFP56 and QSFP-DD, 100G single lambda QSFP28 and

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DCI Optical Modules , Delivering high bandwidth over

Explore DCI Modules Marvell offers a portfolio of DCI modules designed to efficiently transmit data over regional fiber networks. Using Marvell coherent DSP



400G Digital Coherent QSFP-DD DWDM Optics Transceivers

400G Digital Coherent QSFP-DD DWDM transceivers, ZR, ZR+ & ZR+ Pro variants, compatible with Cisco, Juniper, Nokia & Arista. Built for high-speed DCI & long-haul transmissions up to 120 km,

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What is scale across? The optical innovations enabling

As AI training scales beyond the limits of a single data center, a new architectural model is emerging: scale across. In this blog, Brodie Gage explores

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