Ireland Pluggable Optical Module 400G



Overview

The Cisco's QDD-400G-VR4 Module (Figure 5) is a hot pluggable optical transceiver compliant with 400G Ethernet. The optical interface supports bit rates of 53. 25 Gbps/lane) and link reach up to 50m over OM4/OM5 MMF, 30m over OM3 MMF. Majority of the switch ports in AI back-end Networks to be 800 Gbps in 2025 and 1600 Gbps in 2027, showing a very fast migration to the highest speeds available in the market. These challenges are forcing innovation to happen at all levels, including pluggable modules. But pluggable modules still. The Cisco 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a wide variety of super high-density transceiver modules and the flexibility of 400 Gigabit Ethernet connectivity options for data center, high- performance computing networks, enterprise core. Our pluggable coherent optical modules support a variety of data rates, including 100Gb/s and 400Gb/s to enable application optimization based on capacity, distance and port type. The QDCO1 operates at. High-Speed Interconnects: Backend network requires high speed 100G/200G or 800G optics to connect servers and network switches. These high bandwidth connections are essential for handling the data generated by AI workloads Switch ports deployed in the front-end connectivity with Ethernet to grow. Cisco 400G QSFP-DD High-Power (Bright) Optical module's small size and low power make it an optimal choice for a wide range of DCI/Cloud, metro access/aggregation, wireless backhaul, and campus interconnect applications. Cisco 400G QSFP-DD High-Power (Bright) Optical module is mechanically. 400G ZRis a standardized, interoperable 400G coherent interface specification available in the router-pluggable QSFP-DD format.



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Article Content

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco''s QDD-400G-VR4 Module (Figure 5) is a hot pluggable optical transceiver compliant with 400G Ethernet. The optical interface supports

PSE 100G/400G pluggable coherent optics

Our pluggable coherent optical modules support a variety of data rates, including 100Gb/s and 400Gb/s to enable application optimization based on capacity,

400G, 800G, and Terabit Pluggable Optics:

High-Speed Interconnects: Backend network requires high speed 100G/200G or 800G optics to connect servers and network switches. These high bandwidth connections are essential for handling the data

Cisco 400G QSFP-DD High-Power (Bright) Optical

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module''s small size and low power make it an optimal choice for a wide range of

400G ZR/ZR+ pluggable coherent modules

These 400G ZR+ 0dBm modules are optimal for metro/regional edge and core applications, serving as pluggable router interfaces to facilitate IP-optical integration.

Optical Transceivers

Supporting the OpenZR+ Multi-Source Agreement (MSA), the new 400G OpenZR+ QSFP-DD Optical Module from Molex provides a high level of performance and

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 optical interconnect links

Introduction to 400G Optical Modules · KAD

A clear, engineer-friendly overview of 400G optical modules, including standards, packaging formats, functions, and market outlook for next-generation data centers.

How 400G Optical Modules Are Shaping Next-Gen Networks

To address these demands, operators are increasingly adopting 400G optical modules—compact, pluggable transceivers capable of delivering up to 400 Gbps per port.

Linear-Drive Pluggable Optics Modules (LPO) Market Growth

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The Linear-Drive Pluggable Optics Modules (LPO) market is segmented into various types based on data rates. The 200G/400G modules cater to high-speed data transmission needs in cloud

Linear Pluggable Optics – An Overview

Comparison of proposed solutions: In response, several solutions such as Linear Receive Optics (LRO), Linear Pluggable Optics (LPO) and Co-Packaged Optics (CPO) have been proposed. Fig. 1

Optical Transceiver Market Size, Share, Industry Report – 2035

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 2026 to USD 28.6 billion in 2031 &

Opinion: optical transceivers at the chokepoint of AI growth and supply ...

For years, the market was driven by telecom cycles, hyperscale cloud upgrades, and predictable transitions from 100G to 400G. Today, AI clusters have changed the rhythm. Optical

Understanding the OSFP Standard: The Open 400G/800G Optical

OSFP (Octal Small Form Factor Pluggable) is a pluggable optical transceiver interface standard that supports eight electrical lanes (Tx/Rx) per module. Each lane can operate up to 100G

Blog: Acacia Demonstrates Coherent Technology Market Leadership

Industry Leading Coherent Technology Acacia, the coherent pluggable pioneer, has delivered the broadest field-proven portfolio of 400G coherent pluggables in speeds from 100G to

The Ultimate Guide to SFP Modules (2026): Types,

Published: 2026 | Category: Network Hardware Knowledge Base / Optical Communications Core Keywords: SFP Module, SFP Transceiver, Small Form

Coherent DSP | Critical enablers for efficient

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

800G Optical Module Cost Analysis | TCO Optimization Guide

Complete guide to 800G optical module costs and TCO optimization for AI data centers. Includes pricing analysis, cost comparison, vendor strategies, and ROI calculations for informed

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