

Will there be an overcapacity of optical modules



Overview

The latest report shows that Ethernet optical modules used in AI clusters will more than double in 2024 and continue until 2025 – 2026. 8% (2025-2031), driven by critical product segments and diverse end-use applications, while evolving U. tariff policies introduce trade-cost volatility and. The backward compatibility of the double-density QSFP-DD form factor has given end users the flexibility to manage the migration from 100GE to 400GE as demands on their networks have grown. With global R&D projected to. BOSTON (January 7, 2025) – Total shipments of leading-edge datacom optical modules are projected to tally over \$9 billion for 2024, according to the latest Optical Components Report from research firm Signal AI. Unit shipments of 400G and 800G modules have grown nearly fourfold over the past 12. We'll look at advances in EML laser output, indium phosphide capacity expansion, new high-speed transceivers, and MEMS-based optical circuit switching. There's also some big strategic capex moves, like a Qorvo manufacturing acquisition and those NVIDIA-related funding decisions.



Article Content

Report: In 2029, 800G Optical Modules Will Occupy About 70% Of ...

A recent report released by McKinsey, an internationally renowned research organization, pointed out that the supply chain bottleneck of optical transceivers (optical modules) may become a key obstacle ...

Heavy Reading White Paper: 800G Client Optics in the Data ...

When hyperscale data center operators start deploying a new generation of client optics, they immediately require massive volumes of optical modules to build out switching fabric and router ...

Over 20 Million 400G & 800G Datacom Optical Module Shipments ...

BOSTON (January 7, 2025) – Total shipments of leading-edge datacom optical modules are projected to tally over \$9 billion for 2024, according to the latest Optical Components Report from research firm ...

Lumentum Aims \$2B Quarter as AI Optics, 1.6T Transceivers Surge

The goal? Embed Lumentum's lasers right into those transceiver modules and help margins as AI workload grows. Technology leadership in optical transceivers CTO Wupen Yuen laid ...

Optical Module Industry Statistics 2026

Data centers will keep dominating optical module demand as AI and cloud drive revenue growth through 2030. Optical module demand is being pulled in two directions at once, faster bandwidth for dense ...

Overview of 400G Optical Modules

The primary role of 400G optical modules is to increase data throughput, maximizing bandwidth and port density in data centers. Future trends for 400G optical modules include broad ...

OFC 2026 Outlook: AI Data Center Optical Interconnect Trends from ...

High-end optical modules (especially 800G/1.6T class) and many near-term CPO roadmaps still rely heavily on electro-absorption modulated lasers (EMLs) because EMLs integrate ...

Global Optical Modules Market Outlook, In-Depth Analysis & Forecast ...

Our research indicates that demand for 400G/800G and even 1.6T optical modules for cloud data centers and AI training clusters has been accelerating over the past two years, with the ...

LightCounting: The demand for 400G/800G optical modules exceeds ...

Currently, the demand for 4x100G and 8x100G optical modules exceeds the supply by 100%, and many customers have to wait until 2025 for delivery. LightCounting has raised its forecast ...

Comprehensive Overview of Optical Module and DCI Trends: 2026-2034

The optical module and DCI market is experiencing significant growth, driven by the exponential increase in data traffic generated by cloud computing, 5G deployments, and the proliferation of ...

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