

Optical module supply falls short of expectations



Overview

Having already driven shortages in GPUs, high-bandwidth memory, and advanced packaging substrates, the relentless buildout of AI data centers has now produced a severe crunch in optical communications components — the high-speed lasers, fiber optic cables, and transceivers. Having already driven shortages in GPUs, high-bandwidth memory, and advanced packaging substrates, the relentless buildout of AI data centers has now produced a severe crunch in optical communications components — the high-speed lasers, fiber optic cables, and transceivers. Having already driven shortages in GPUs, high-bandwidth memory, and advanced packaging substrates, the relentless buildout of AI data centers has now produced a severe crunch in optical communications components — the high-speed lasers, fiber optic cables, and transceivers that form the nervous. Potential shortfalls in networking optics supply could hinder data center and AI expansion. How can players boost supply and seize growth opportunities, especially in high-bandwidth transceivers?

Networking optics are mission-critical components in advancing AI and data center infrastructure. al shortfalls in networking optics supply could hinder data center and AI expansion. This article explores current trends in networking optics technology s well as the market factors affecting. Lumentum is shipping 30% below customer demand for EML optical networking components, with all production capacity locked in long-term agreements through 2027. The company's OCS order backlog has surged past \$400 million despite expanding indium phosphide capacity by over 20% in Q4 2025. The first half of 2025 will be impacted as well.

Article Content

Optical Modules Future-Proof Strategies: Market Trends 2026-2034

The optical modules market is booming, projected to reach \$27.4 billion by 2033 with an 8% CAGR. This

Optical Module and Computing Infrastructure Supply Chain Data

Optical Module and Computing Infrastructure Supply Chain Data Tracking · Issue 4, May 2026 This week's review

Optical Modules Market Research Report 2034

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025 and is projected to

AI demand strains supplies of lasers, fiber, and other optical tech

Having already driven massive shortages in memory chips and CPUs, the global artificial intelligence boom is now

Reasons for the Collapse of Optical Modules: Top Institutions Report ...

The report notes that the marginal benefits of 800VDC in terms of current grid power supply and efficiency

Serenity: AAOI bulls highlight optical module supply-demand ...

BlockBeats news, June 17 — Serenity responded on social media to bearish sentiment toward optical module

Applied Optoelectronics Warns Laser Supply Shortages Could Slow

Applied Optoelectronics CFO warns that laser supply shortages could delay the rollout of 800G and 1.6T optical

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

As AI infrastructure accelerates at an unprecedented pace, optical connectivity has become one of the defining

LightCounting :: Component shortages limit growth in transceiver sales

Demand for optical connectivity remains strong, but component shortages hobbled growth in sales of optical transceivers in Q4 2024.

LightCounting :: February 2025 Component shortages limit growth in ...

Chinese optical module manufacturers will report Q4 results together with the full year results in April, but several of them have

From optical modules to chips -

Huagong Tech, an optical module manufacturer based in central China's Wuhan, launched the world's first 12.8-terabit

LightCounting :: Component shortages limit growth in transceiver sales

Chinese optical module manufacturers will report Q4 results together with the full year results in April, but several of them have

AI Boom Strains Supply of Lasers, Fiber Optics and Photonics

AI optical component supply strain - macroeconomic data, inflation trends, and interest rates tracking. The rapid

LightCounting: supply shortages are slowing Ethernet transceiver sales

The research firm reports that while optical transceiver suppliers reported revenue growth in Q3 2024, and demand remains strong,

AI Demand Strains Optical Component Supply Chains: Lasers, Fiber

This could accelerate investments in local production of optical components, particularly in regions such as the

SemiAnalysis report triggers optical module stock selloff

Optical stocks fall after SemiAnalysis report Several optical component stocks declined by high single to double digits

Broadcom's Q3 guidance missed expectations by \$1.2 billion,

For the A-share optical module sector, a statement from CEO Hock Tan regarding the AI networking business during

Research Firm: 800V DC and CPO Production Progress Delayed, Optical ...

Meanwhile, the CPO (Chip-on-Board) shipment scale for 2027 is projected to fall short of market forecasts, with large

Shortage of chips for optical modules | Weyland

Demand for 400G, 800G, and even 1.6T optical modules continues to increase significantly. However, the industry is

Optical Module Chip Market 2025

The optical module chip market faces significant headwinds from global supply chain disruptions. The highly specialized

Why Is AAOI Falling? A Comprehensive Analysis of the Factors

On June 9, AAOI plunged over 17%. This article breaks down the core reasons behind the latest correction of this

Optical Module Package Market 2025

Optical Module Package Market was valued at 8942 million in 2024 and is projected to reach US\$ 20220 million by 2032, at a CAGR

McKinsey Direct Opportunities in networking optics: Boosting supply

Opportunities in networking optics: Boosting supply for data centers Potential shortfalls in networking optics supply could hinder data

Lumentum Undersupplies Optical Components by 30% as AI

The 30% supply shortfall indicates that hyperscalers and cloud infrastructure providers are unable to obtain sufficient

AI Data Center Optical Component Shortage: Nvidia's \$4B Laser

The lockup has forced optical module manufacturers and cloud service providers to search for secondary suppliers

Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are

In the span of a decade, Chinese optical module companies have claimed 7 of the top 10 seats and secured core

Optical component shortage will bottleneck AI datacenter buildout ...

Lumentum is undershipping customer demand for optical components by approximately 30%, creating a supply

800G Optical Modules Drive Market Recovery in 2025

800G modules drive optical market recovery in Q2 2025, with initial 1.6T shipments. This article highlights key trends

TLDR of Innolight investor relations takeaways: 1. "Overall, 1.6T ...

aleabitorreddit (Serenity). 531 likes 104 replies. TLDR of Innolight investor relations takeaways: 1. "Overall, 1.6T market

Optical Module Supply Chain & Quality Control | AI Infrastructure

Expert guide to managing optical module supply chains for AI data centers. Covers vendor qualification, quality

Supply Chains and Pricing in Optics and Photonics

Before the pandemic, companies commonly received supplies “just in time” to keep inventory costs low. Now, however—given the

CPU Shortage Deepens, Optical Module Value Restructuring

□□ Optical Modules / Interconnect — Medium-High (Rising) DCI value share shifting 30% → 60-70%. 800G mass

McKinsey Direct Opportunities in networking optics: Boosting supply

The networking optics industry must work quickly and collaboratively to recalibrate its ability to address imminent supply shortfalls

Deep Dive: Optical Module Market

Powering next-gen connectivity: How optical modules enable fast, reliable data transfer, and What are the

Optical Module Industry Statistics 2026

Optical Module Industry Statistics Data centers will keep dominating optical module demand as AI and cloud drive

AI Data Center Demand Tightens Optical Supplies — Silicon Report

AI demand is tightening optical supplies and lifting prices The squeeze spans lasers, substrates, optical fibers, and

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