

Are optical modules really in short supply



Overview

The components of 4x100G and 8x100G optical modules are already in short supply. Potential shortfalls in networking optics supply could hinder data center and AI expansion. Telecommunication networks (wireless and wired) are the second-largest application, contributing 28% of market revenue in 2022. The automotive industry's demand for optical. Optical module packages integrate multiple photonic components including optical transmitters (TOSA with laser chips), receivers (ROSA with detector chips), and supporting electronics into standardized form factors. As shown in the figure below, it is too late to prevent a market downturn in 2023, but LightCounting predicts that the sales of Ethernet optical modules will increase by nearly 30% in 2024. The first half of 2025 will be impacted as well.



Article Content

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 supplier status in the AI demand segment. Thanks to the 800G capacity

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

Seven of the global top 10 optical module suppliers in 2024 were Chinese companies (including Source Photonics, acquired by Chinese capital). Innolight and Eoptolink are estimated by

Optical Module Package Market 2025

The optical module industry faces persistent supply chain challenges, particularly for specialized components like high-performance laser diodes and photodetectors.

Optical Module Package Market 2025

While demand for optical modules continues to grow, manufacturers face significant production challenges that constrain market growth. The assembly and testing of high-speed optical modules

Deep Dive: Optical Module Market

Test data shows that current LPO solutions can deliver reasonably close performance compared to traditional DSP-based modules, especially in scenarios with shorter connection

Optical Module Industry Statistics 2026

Supply chain disruptions in 2022 caused a 15% delay in delivering high-speed optical modules to data center clients, primarily due to semiconductor shortages. Global R&D spending in

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 center and AI expansion. How can players boost supply and seize

Why Are Used Optical Modules Returning To The Market? —

The following analysis examines the inevitability of the resale of used optical modules from three core scenarios, drawing an analogy to the used mobile phone market to help you better

LightCounting :: Component shortages limit growth in

Demand for optical connectivity remains strong, but component shortages hobbled growth in sales of optical transceivers in Q4 2024. The first half of 2025 will be

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 pandemic's much-publicized supply-chain disruptions—many are ordering

The report states that in the next five years, the global optical ...

Suddenly, people's expectations for 2024 skyrocketed. The components of 4x100G and 8x100G optical modules are already in short supply. As shown in the figure below, it is too late to prevent a market

Global optical module sales reach \$4.25 billion in H1 2022

The global Ethernet optical module market share in Q1 and Q2 2022 amounted to USD 1,112/ 1,207 million respectively, and the sales revenue in Q2, although lower than the record high in

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