

Expected rebound in optical module demand



Overview

According to the latest June 2025 Quarterly Market Update by renowned research firm LightCounting, the global optical transceiver market is set to rebound in Q2 2025 with a projected 10% quarter-over-quarter growth. The key growth driver is the rising demand for 800G Ethernet optical modules. The optical module and data center interconnect (DCI) market is experiencing significant expansion, driven by the escalating demand for high-bandwidth connectivity, cloud computing, 5G networks, and data-intensive applications. The market, projected to reach \$14.7 billion in 2025, is forecast to. Optical Modules Market Revenue was valued at USD 3. Optical module demand is being pulled in two directions at once, faster bandwidth for dense networks and tighter constraints on power, security, and lead times. 6 billion by 2034, advancing at a compound annual growth rate (CAGR) of 11.



Article Content

Apr 09, 2026

Optical Modules Market Size, Growth Trends & Forecast

Access detailed insights on the Optical Modules Market, forecasted to rise from USD 3.5 billion in 2024 to USD 8.2 billion by 2033, at a CAGR of 10.3%.

Feb 28, 2026

Optical Module Chip Market 2025

Investments in smart cities and subsea cable projects are boosting demand for optical modules. However, the market struggles with low local manufacturing capabilities and geopolitical

Nov 14, 2025

Hyperscaler demands drive up demand for optical

Driven by AI applications, spending on datacom optical components rose over 90% as 400GbE and 800GbE optical modules for AI applications drove demand to

Apr 08, 2026

Telecom Optical Module Market (2024 – 2032) | CAGR 5.78% | Rising ...

The Telecom Optical Module Market is experiencing robust growth driven by 5G deployment, cloud computing, data center expansion, and rising bandwidth demand. Valued at USD

Dec 24, 2025

Understanding Optical Module Demand in Evolving Data

Explore optical module demands in evolving data center architectures. Learn about usage in traditional, improved, and two-tier setups for

Sep 10, 2025

World Optical Fiber Demand Poised for Continued Growth

World Optical Fiber Demand Poised for Continued Growth Demand for fiber is expected to steadily grow over the next six years, with world optical cable

Nov 02, 2025

Optical Module Market Size, Competitors & Forecast to

The optical module market is navigating transformative shifts in technology, procurement, and network architecture, positioning itself at the heart of evolving

Jan 15, 2026

LightCounting: The demand for 400G/800G optical

Currently, the demand for 4x100G and 8x100G optical modules exceeds the supply by 100%, and many customers have to wait until 2025 for

Jun 05, 2026

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 reach \$39.6 billion by 2034,

Feb 17, 2026

LightCounting Predicts High-Speed Growth in The

Suddenly, predictions for the demand in 2024 surged. The 4x100G and 8x100G optical modules are in high demand. As shown in the graph below,

Apr 22, 2026

The optical module market has benefited from the AI boom

As technology continues to advance and market demand continues to grow, the optical module market will rebound quickly and usher in a new growth

Aug 12, 2025

Press Releases

Over 20 Million 400G & 800G Datacom Optical Module Shipments Expected for 2024
January 7, 2025

Jul 21, 2025

Demand for Datacom Optical Modules Reaches Record

Spending on Datacom optical components was up more than 90% YoY as AI applications of 400GbE and 800GbE optical modules for AI

Mar 23, 2026

Demand for datacom optical modules reaches record

Hyperscale network operator demand drove purchases of 400GbE and 800GbE datacom and 400ZR telecom optical modules to record levels,

Mar 18, 2026

Optical Module Market Growth Driven by AI Demand

Optical Module Market surges as AI clusters expand, boosting demand for 800G and Coherent-lite modules and reshaping global cloud network

Apr 20, 2026

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 comprehensive analysis explores market size, drivers, trends, restraints, and key

Jan 02, 2026

Optical module market size expected to exceed \$15 billion by 2024

Datacom optical module market: 100G recovery, 400G demand continues to show 2020 will be the turning point of the global Ethernet optical module market, and the industry is expected to

Dec 25, 2025

Understanding Optics Module Trends and Growth Dynamics

The optics module market is booming, projected to reach \$42 billion by 2033, driven by 5G, cloud computing, and data center expansion. Learn about key market trends, leading companies, and

Mar 18, 2026

Optical Modules Market Size, Trends & Forecast 2025-2035 | Core

As organizations seek to optimize their optical communication systems and address specific operational requirements, the demand for these specialized optical modules is poised to rise.

Jul 22, 2025

Shifting Camera Integration Trends Expected to Cause

TrendForce reports a significant 8.9% decrease in shipments of smartphone camera modules in 2023, totaling around 4.065 billion units. This

Oct 24, 2025

LightCounting :: AI creates a new wave in demand for

LightCounting releases January 2025 edition of "Optics for AI Clusters" report The Figure below presents our forecast for sales of optical transceivers, LPO and

Nov 24, 2025

ASIC servers drive up demand for optical modules, Goldman Sachs

Goldman Sachs predicts that the shipment volumes of 800G and 1.6T optical transceiver modules will experience accelerated growth by 2026, driven by generative AI's increasing demand

Feb 21, 2026

Optical Module Industry Statistics 2026

The rise of quantum computing is expected to create new demand for specialized optical modules by 2030, as quantum communication systems require high-precision photon manipulation.

Jun 16, 2026

Optical Module Industry Statistics 2026

Worldmetrics REPORT 2026 Electronics And Gadgets Optical Module Industry Statistics Data centers will keep dominating optical module demand as AI and cloud drive revenue growth through 2030.

Jan 18, 2026

The optical module market has benefited from the AI boom

The growing demand for high-speed and efficient data transmission with the continuous development of technologies such as cloud computing, big

May 02, 2026

Optical Modules Market Research Report 2034

Beyond hyperscale buildouts, national broadband expansion programs in Asia Pacific, Europe, and North America are driving fresh demand for coherent optical

Feb 15, 2026

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 in data center optics and AI

May 01, 2026

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

The optical module and DCI market is booming, projected to reach \$40 billion by 2033, driven by cloud computing, 5G, and data-intensive applications. Learn about market trends, key

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