

Optical module chip shipments



Overview

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 Cignal AI. Optical module chips are semiconductor devices that enable high-speed data transmission in fiber optic networks. While chip rankings differ by segment (100G, coherent modules, or silicon photonics), reviewing supplier rankings. Optical Module Chip by Application (10/25G Optical Mould, 100G Optical Mould, 200G Optical Mould, 400G Optical Mould, 800G Optical Mould), by Types (Laser & Detector Chip, Amplifiers, Drivers and MUX/DEMUX Chip), by North America (United States, Canada, Mexico), by South America (Brazil. The global optical modules market was valued at \$14. 8 billion in 2025 and is projected to reach \$39. 5% during the forecast period from 2026 to 2034. Hyperscale data centers now account for over 60% of optical component demand, with cloud services and AI workloads pushing higher-speed modules.



Article Content

Jan 05, 2026

Optical Module Chip Market 2025

Optical Module Chip Market size was valued at US\$ 823 million in 2024 and is projected to reach US\$ 1.52 billion by 2032, at a CAGR of 8.0%

Sep 06, 2025

\$SITM KEY READ-THROUGHS FROM SITIME Q1 2026 EARNINGS

That combination supports higher optical module volumes, higher technical requirements, and potentially higher component content per module. The positive read-through is strongest for

Nov 15, 2025

Top Silicon Photonics Stocks 2026: Breaking the

The industry knows it. The true endgame is called Co-Packaged Optics (CPO). Instead of plugging a separate optical module into the front of a switch,

Dec 31, 2025

2025 Optical Module Market Share and Demand Report

North America dominates with 36% market share, led by 800G/1.6T shipments from Chinese vendors like Innolight and Eoptolink. Asia Pacific grows

Oct 08, 2025

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

Mar 09, 2026

Over 20 Million 400G & 800G Datacom Optical Module

Unit shipments of 400G and 800G modules have grown nearly fourfold over the past 12 months and are expected to surpass 20 million for 2024. "Optical

May 22, 2026

\$POET <POET Technologies and LITEON Announce Joint

POET Technologies announced a strategic collaboration with Taiwan's LITEON to co-develop optical modules for AI applications. The plan: build next-gen CPO and data center modules

Nov 01, 2025

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

Oct 04, 2025

Optical Communication Industry Trends 2026: AI, 800G/1.6T Optical ...

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules, silicon photonics, and next-generation data center connectivity solutions.

Jun 10, 2026

Optical Component Startup Tracker

The number of venture-backed optical component startups has exploded - the Optical Component Start-Up Tracker identifies these companies

Mar 11, 2026

Over 20 Million 400G & 800G Datacom Optical Module

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

Jun 06, 2026

\$POET reports earnings tomorrow. This is the most important day for ...

This is the most important day for this stock since it started trading on NASDAQ Their Optical Interposer platform integrates lasers, optics and electronics into a single chip-scale package.

Aug 19, 2025

Broadcom Sian3 and Sian2M: 200G/lane optical

Analyzing Broadcom's Sian3 and Sian2M 200G/lane DSP technologies. Sian3 (3nm/SMF) and Sian2M (5nm/MMF) support 800G and 1.6T

Mar 15, 2026

Market Insights: 800G & 1.6T Silicon Photonics Optical

Traditional modules require additional lenses and mirrors to combine the eight laser beams into one before entering the fiber. These optical

Nov 23, 2025

LightCounting :: 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 already released very high net

May 16, 2026

Optical Module Chip Market -

In 2023, 5G backhaul expansions drove global capex above \$210B, fueling optical chip demand. Regional momentum includes a 22% YoY rise in 400ZR/ZR+ shipments for

Nov 08, 2025

Exploring Optical Module Chip Market Evolution 2026-2034

Explore the booming Optical Module Chip market forecast (2025-2033). Discover key drivers like 5G, data centers, and AI, alongside growth trends for 100G, 200G, 400G, and 800G

Oct 16, 2025

Optics Primer, Part 3: Co-Packaged Optics (CPO)

Optics Primer, Part 3: Co-Packaged Optics (CPO) From EML lasers and DSPs to silicon photonics and external CW lasers. How CPO works and the

Jul 04, 2025

Optical Module Package Market 2025

MARKET INSIGHTS The global Optical Module Package Market was valued at 8942 million in 2024 and is projected to reach US\$ 20220 million by 2032, at a CAGR of 12.7% during the forecast period.

Oct 13, 2025

\$LITE \$COHR \$CIEN \$AAOI EXECUTIVE OVERVIEW Across the

Yet the same March 2026 note warns that optical chip and module capacity is now catching up with demand, which could intensify supplier competition and drive sharper price declines by the end of 2026.

Jan 18, 2026

Optical Bottleneck in AI: Data Center Interconnects Limit AI ...

Forecasts show AI compute could hit 25 FP8 TOPS by 2028, while the required inter-rack bandwidth climbs to 2.4 PB/s — a tenfold jump in optical module shipments.

Apr 08, 2026

GF Overseas Electronics & Communications March 16 GTC

Jukan (@jukan05). 89 likes 5 replies. GF Overseas Electronics & Communications March 16 GTC 2026 Keynote + Silicon Valley Channel Check Call Summary * Key

May 31, 2026

Powering the Next Data Race: How 800G & 1.6T Optical

North America currently accounts for over 40% of global 800G optical module shipments, driven by the strong demand from AI research labs for ultra

Mar 10, 2026

CPO Switch: Next-Generation Integrated Optical

CPO switches shorten the electrical signal path, reduce power consumption, and decrease the number of pluggable modules by co-packaging optical modules with

Dec 13, 2025

Global rankings of optical module chips | Weyland

Note: This ranking reflects overall industry positions, not a strict chip sales leaderboard, but highlights the main players shaping the global optical module and optical module chip market today.

Jan 24, 2026

Yole Group

Yole Group - Access daily business, market & technology updates in the semiconductor industry, our Analysts' Analysis and Presentations and more

Jan 06, 2026

800GbE Optics Shipments to Grow 60% in 2025

The datacom optical component market will grow 60%+ to reach over \$16B in revenue during 2025, based primarily on continued growth in 400G and

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