

# Optical Module CPO Trend Analysis



## Overview

Strategic analysis of the Co-Packaged Optics (CPO) market, tracking the 2026 inflection point for 1. Explores value migration, supply chain bottlenecks, and thermal management architectures driving AI infrastructure scalability. According to LightCounting, sales of lasers and photonic integrated circuits for optical transceivers are expected to grow from \$2.9B by 2029, fueled largely by AI data centers. 6 Tbps, driven by the adoption of 64x 400 Gbps or 32x 800 Gbps pluggable optical transceiver modules. 4 T and Above), Component (Optical Engine, Electrical IC, Laser Source, and More), Integration Approach (On-Board Optics, and Co-Packaged Optics), End-Use Application (Hyperscale Cloud Data Centers. Co-Packaged Optics (CPO) is an advanced optical interconnect architecture that integrates optical components—such as photonic integrated circuits (PICs) and lasers—directly alongside switching ASICs or processors within the same package. This approach significantly reduces electrical I/O distance. Co-packaged Optical (CPO) Modules by Application (Data Center, Cloud Computing, 5G Communication, Other), by Types (Vertical Co-packaging Module, Planar Co-packaging Module, Hybrid Packaging Module), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of.

## Article Content

Jun 18, 2026

Co Packaged Optics (CPO) – Scaling with Light for the

This section will explore the evolution of the market from copper to co-packaged copper and from digital signal processor (DSP) optics to linear

Jan 23, 2026

Co Packaged Optics Market Report: Size, Growth,

Co Packaged Optics Market size is projected to reach USD 0.84 Billion by 2032, growing at a CAGR of 27.5% from 2026 to 2032 The report provides key trends,

May 23, 2026

Optical Module Package Market 2025

Report Scope This market research report provides a comprehensive analysis of the global and regional Optical Module Package markets, covering the forecast period 2025–2032. It offers detailed insights

Jul 31, 2025

Co-packaged optics (CPO): status, challenges, and

Co-packaged optics (CPO) is a disruptive approach to increasing the interconnecting bandwidth density and energy efficiency by dramatically

Aug 16, 2025

Co-Packaged Optics (CPO) 2025-2035: Technologien, Markt und

IDTechEx's "Co-Packaged Optics (CPO) 2025-2035" explores technical innovations and packaging trends, analyzing the value chain. It evaluates industry players and forecasts CPO's impact on data

Jul 01, 2025

Co-Packaged Optics (CPO) Market Trends 2026: AI Data Center

Explore the future of co-packaged optics (CPO) in AI data centers. Learn how silicon photonics, optical I/O, and high-speed optical interconnect technologies are shaping next-generation

Nov 29, 2025

Global LPO Optical Transceiver Module Market 2025

This report provides a deep insight into the global LPO Optical Transceiver Module market covering all its essential aspects. This ranges from a macro overview of

Feb 12, 2026

Lumentum Orders Booked Through 2028: Can Optical

Optical communications are emerging as the next AI computing infrastructure frontier, driven by data interconnection bottlenecks. Lumentum's order book is full through 2028, reflecting

Jan 15, 2026

Five Key Trends of Co-Packaged Optics (CPO) in 2026

Meeting market expectations and building confidence in co-packaged optics will require more than performance demonstrations. CPO adoption

Oct 25, 2025

Optical Transceiver Market Size, Share, and Trends Analysis 2032

The global Optical Transceiver market size was estimated at USD 13.08 Billion in 2024 and is estimated to grow at a CAGR of 15.41% from 2025 to 2032.

Jun 15, 2026

Optical Transceiver Market Size, Share, Trends

The global optical transceiver market size is projected to grow from \$17.15 billion in 2026 to \$46.12 billion by 2034, exhibiting a CAGR of 17.00%

Mar 28, 2026

Co-packaged Optical (CPO) Modules Market Size, Growth Outlook 2034

The CPO Modules segment held the largest market share in 2024, accounting for 45% of the global Co-packaged Optical Modules Market. The growth of this segment is driven by the increasing demand

Jun 08, 2026

QSFP Optical Module Planning for the Future: Key Trends 2026-2034

Explore the dynamic QSFP optical module market, forecast to reach \$14.7 billion by 2025 with a 4.5% CAGR. Discover key drivers, trends, and applications in high-speed networking and data

Sep 02, 2025

Global Co-Packaged Optics Module (CPO) Competitive Landscape ...

Global Co-Packaged Optics Module (CPO) Competitive Landscape Professional Research Report 2026 Market Overview According to DIResearch's in-depth investigation and

Mar 14, 2026

Predicting Cost Trends for Widespread Co-Packaged Optics Adoption

The economic viability of Co-Packaged Optics (CPO) widespread deployment hinges on sophisticated cost modeling frameworks that account for multiple variables across the technology

Feb 06, 2026

Co-Packaged Optics — a deep dive | APNIC Blog

A failure in an optical engine might require replacing an entire CPO switch line card or server board rather than just swapping a pluggable module.

Apr 17, 2026

Co-packaged Optical (CPO) Modules Market Strategies: Trends and

This report provides an in-depth analysis of the Co-packaged Optical (CPO) Modules market from 2019 to 2033, with a base year of 2025. The key deliverables include a comprehensive

Dec 21, 2025

Co-Packaged Optics (CPO) Market Size, Share and

The global co-packaged optics (CPO) market size is evaluated at USD 95.04 million in 2025 and is predicted to hit around USD 1,055.11 million by

May 13, 2026

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Silicon Photonics Race Intensifies as TSMC Targets 2026

As GPU designs evolve toward denser chip-to-chip connectivity and faster data rates, optical transmission is taking on a bigger role. Foundry giants are also moving in, with TSMC's

Jul 20, 2025

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,

Jan 22, 2026

Co-Packaged Optics Market Size, Growth & Trends, 2031

Co-packaged optics market to grow from USD 161.43M in 2026 to USD 748.62M by 2031, driven by AI/ML bandwidth, hyperscale data centers, and

Sep 10, 2025

Co-Packaged Optics Race: Strategic Approaches from NVIDIA and

Co-packaged optics (CPO) is gaining significant attention as the next architecture for next-generation switching. The shift toward co-packaged optics is also reshaping competitive

Aug 08, 2025

Co Packaged Optics (CPO) – Scaling with Light for the

Co-Packaged Optics (CPO) has long promised to transform datacenter connectivity, but it has taken a long time for the technology to come to market,

Sep 20, 2025

Sample Pages

CPO for AI Interconnects: Exploration of how optical I/O can address the limitations of copper connections in AI applications, improving efficiency, latency, and data rates.

Jan 14, 2026

Worldwide Active Optical Module Market 2026

Worldwide Active Optical Module Market 2026 Global Active Optical Module Market Size, Share & Industry Analysis, By Data Rate (800G and Above, 400G), By End User (Cloud Data

Mar 22, 2026

Co-Packaged Optics (CPO) Market Analysis: 1.6T Transition & AI

Strategic analysis of the Co-Packaged Optics (CPO) market, tracking the 2026 inflection point for 1.6T modules. Explores value migration, supply chain bottlenecks, and thermal

## Contact Us

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