

Optical Module CPO Industry Trends



Overview

The Co-Packaged Optics (CPO) module market is booming, projected to reach \$21.99 billion by 2033 with a 35% CAGR. Driven by AI, cloud computing, and data center expansion, leading companies like Broadcom and Intel are shaping this high-growth sector. 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. Read on to learn key CPO trends shaping AI systems in 2026 and the challenges designers will need to. 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. Unlike traditional pluggable models, CPO integrates optical modules directly onto the switch ASIC substrate, reducing electrical reach and effectively addressing signal integrity issues. This approach has gained traction. Co-Packaged Optics Module (CPO) by Application (Ethernet Switches, Machine Learning, Other), by Types (100G, 400G, Other), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United Kingdom, Germany, France, Italy, Spain, Russia. The Co-Packaged Optics Market Report is Segmented by Data Rate (Below 1.4 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).

Article Content

Co-packaged Optical (CPO) Modules Growth Trends & Strategic

Explore the rapidly expanding Co-packaged Optical (CPO) Modules market, driven by 5G, cloud computing, and AI data center demands. Discover market size, CAGR, key drivers,

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

Co-Packaged Optics Module (CPO) Trends and Forecasts:

The Co-Packaged Optics (CPO) module market is booming, projected to reach \$21.99 billion by 2033 with a 35% CAGR. Driven by AI, cloud computing, and data center expansion, leading

Optical Module Chip Market 2025

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

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

This report studies the market size, price trends and future development prospects of Co-Packaged Optics Module (CPO). Focus on analysing the market share, product portfolio, prices,

LPO and CPO: Reshaping the Next Generation of AI Optical

LPO and CPO: Redefining AI Optical Interconnects for the Next Data Center Era How ESOPTIC Views the Future of High-Speed Optical Networking As AI infrastructure rapidly evolves

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CPO Emerges as the New Sought-After as JCET

Industry analysts point out that as AI-driven data traffic continues to surge, traditional copper interconnects are increasingly constrained by bandwidth

Partnering With Lumentum and Coherent, Can Nvidia's

CPO technology, which packages optical components directly with the GPU, has become an inevitable industry trend. Based on the disclosed details,

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.

Optics Transceiver Module Market 2025

Technology Trends & Innovation: Assessment of emerging technologies in optical communication, integration with 5G networks, and evolving industry standards for transceiver modules.

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

Co-Packaged Optics (CPO)Co-Packaged Optics (CPO)

IDTechEx's "Co-Packaged Optics (CPO) 2026-2036" explores technical innovations and packaging trends, analyzing the value chain. It evaluates industry players

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

Optical Modules and PCBs: Driving High-Speed Data Transmission in

In the fast-paced world of data communication, the demand for efficient, high-bandwidth solutions has never been greater. As AI-driven applications and massive data processing push the

The Evolution of Optical Modules: Powering the Future

Enter optical modules, which leverage the power of light to transmit data efficiently over long distances, driving the next generation of technological

Co-packaged Optics Module (cpo) Market Size, Trends, Insights 2034

The Co-packaged Optics Module (cpo) Market report delivers an in-depth evaluation of the current landscape and future growth outlook, highlighting essential trends, key drivers, major challenges,

Development trend of optical

Development trend of optical interconnect technology in intelligent computing centers Summary 6 High rate :Intelligent computing centers are driving the acceleration and innovation of optical module chips

Development Trends in Optical Module Technology:

Though CPO development is still in its infancy and industry standards are yet to be fully established, its mature application could bring significant

AI infrastructure accelerates the shift to scalable optical systems ...

Several announcements reflected the industry's push toward new system architectures. XPO highlighted a 12.8T liquid-cooled optical module and a 204.8T switch in 1RU, with claims of

Inside Nvidia's \$4B Optical Strategy--And Why CPO Changes Everything

Nvidia Corporation's \$2B bets on Coherent & Lumentum signal a major CPO rollout as it battles Broadcom. Click for this NVDA stock update.

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

Samsung Foundry Reportedly Wins Optical Module Order,

As a result, optical transmission technologies are becoming increasingly important. TrendForce forecasts that co-packaged optics (CPO) will steadily increase their share of optical

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

They have introduced a new CPO prototype module that can enable high-speed optical connectivity. This technology could significantly increase the

Optical Communications Industry Chain: Critical Infrastructure in the ...

High-speed optical modules, CPO, and higher-bandwidth interconnect technologies are gaining importance. From a supply chain perspective, U.S. companies continue to dominate high

Global LPO Optical Transceiver Module Market 2025

LPO Optical Transceiver Module Key Market Trends : Rapid Adoption in Data Centers
The increasing demand for high-speed connectivity and reduced latency

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

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