

Preview

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. These pressures are driving renewed momentum behind co-packaged optics (CPO). 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. It reviews recent advances in CPO technology, tracks emerging packaging approaches, assesses the strategies of leading companies, and provides long term market. 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.

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

A surge in AI development created a new wave in demand for optical connectivity in 2023-2025 and it will sustain the market's growth through 2030. The Figure

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 2034, growing at a CAGR of 30.66%.

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

Due to the supply shortage in AI data center construction, there's also a shortage of CPO optical transmission modules. With few suppliers to begin with, market demand is booming and is

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 thermal-efficient switches.

CPOs enable a credible path to sub pJ /bit by placing the optical engine directly adjacent to, or within the same package as the switch ASIC or XPU. NVIDIA's recent report shows that

According to our latest research, the global Co-Packaged Optics Module (CPO) market size will reach USD 1214 million in 2031, growing at a CAGR of 47.9% over the analysis period.

See how optical module demand is being reshaped by datacom, which held a 55% share of the market in 2023,

and by the next wave of speed upgrades from 400G and 800G data center

While linear-drive pluggable modules remain competitive, CPO is expected to offer unmatched customization and scalability, with large-scale adoption targeted for 2028-2030. With AI

Therefore, TrendForce estimates that the market value of Micro LED CPO optical transceiver modules will reach \$848 million by 2030. Data Source Statement: Except for publicly

The Co-packaged Optical (CPO) Modules market is booming, projected to reach \$7.38 Billion by 2033 with a 40% CAGR. Driven by AI, 5G, and cloud computing, this report analyzes

AI computing power has driven explosive growth in the optical module market, with 800G and 1.6T technologies leading the industry transformation. Chinese companies occupy a dominant

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This achievement underscores the maturity, robustness, and production-readiness of Broadcom's CPO platform for hyperscale AI applications. Compared to pluggable module solutions,

A: In the short term, pluggable optical modules such as 800G and future 1.6T optics will continue to dominate data center networking. CPO is expected to gradually appear in hyperscale AI

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