

What industries are related to co-packaged optical CPO



Overview

Main segments include components (optical engines, ICs, lasers, interposers) and integration approaches (on-board, fully integrated, hybrid). Applications reach across hyperscale data center switching, HPC, cloud networks, telecom core/metro, and edge computing. Co-Packaged Optics (CPO) Technology by Application (Data Center, Cloud Computing, 5G Communication, Other), by Types (Hardware, Software and Services), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United Kingdom, Germany. 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) Market (By Component: Optical engines/transceivers, Photonic integrated circuits, Lasers, Modulators, Electrical ICs / SerDes, Optical fibers and waveguides, Connectors and interfaces, Thermal management solutions, Packaging substrates and interposers, Testing and alignment. Co-packaged optics (CPO) technology, a key enabler for next-generation data center architectures, promises unprecedented bandwidth density and power efficiency by tightly integrating optical engines with switch silicon. But after nearly a decade of existence, where does this next-generation optical. We'll break down the growth path, leading players, technology trends, regional demand, and the strategic moves shaking up silicon photonics in data centers, HPC, and cloud networks. Projections show the CPO market could jump from US\$122.



Article Content

Sep 08, 2025

Co-Packaged Optics Market Hits \$2.4B by 2035; North America Leads

This blog takes a close look at the latest market study on co-packaged optics (CPO). We'll break down the growth path, leading players, technology trends, regional demand, and the strategic

Feb 17, 2026

Co-Packaged Optics (CPO) Market Size, Trends, 2026-2033

The Co-Packaged Optics (CPO) Market is undergoing a transformative phase driven by the relentless need for higher bandwidth and lower latency in digital communication networks. This

Jun 27, 2025

GlobalFoundries accelerates adoption of co-packaged optics for

GlobalFoundries (Nasdaq: GFS) on May 4, 2026 introduced the SCALE optical module solution for co-packaged optics (CPO), billed as the industry's first OCI MSA-capable platform.

Apr 26, 2026

Marvell Announces Breakthrough Co-Packaged Optics

CPO technology integrates optical components directly within a single package, minimizing the electrical path length. This close coupling significantly

Jan 08, 2026

Foxconn to Ship 50,000 Nvidia CPO Units in Major Deal

Key Takeaways: Hon Hai Precision Industry Co., also known as Foxconn, has reportedly begun early shipments of all-optical Co-Packaged Optics (CPO) switch cabinets to Nvidia, its sole

Oct 11, 2025

NVIDIA Announces Spectrum-X Photonics, Co

NVIDIA today unveiled NVIDIA Spectrum-X™ and NVIDIA Quantum-X silicon photonics networking switches, which enable AI factories to connect

Nov 28, 2025

Where co-packaged optics (CPO) technology stands in

Besides CPO heavyweights like Broadcom and Marvell, there are notable startups in the silicon photonics realm, striving to overcome electrical I/O

Mar 19, 2026

How Industry Collaboration Fosters NVIDIA Co

NVIDIA is developing a co-packaged optics (CPO) platform that integrates optical and electrical components to improve data-center connectivity,

Jul 01, 2025

Co-Packaged Optics (CPO) Technology Growth

Discover the explosive growth of the Co-Packaged Optics (CPO) market, projected to reach \$25 billion by 2033. Learn about key drivers, industry trends, leading

Jun 17, 2026

Global Co-Packaged Optics (CPO) Technology Market Research

The global market for Co-Packaged Optics (CPO) Technology was valued at US\$ 44.6 million in the year 2024 and is projected to reach a revised size of US\$ 960 million by 2031, growing

Sep 19, 2025

Coherent Showcases Multiple Co-Packaged Optics (CPO)

Coherent Corp. is gearing up for a big showcase at OFC 2026 in Los Angeles. They're rolling out a lineup of co-packaged optics (CPO) demos that cover silicon photonics, indium

Mar 17, 2026

Silicon Photonics and Co-Packaged Optics at the Heart

While linear-drive pluggable modules remain competitive, CPO is expected to offer unmatched customization and scalability, with large-scale

May 10, 2026

Co-Packaged Optics (CPO) 2025-2035: Technologies,

The report is based on extensive research and interviews with industry experts and provides valuable insights for anyone interested in gaining a strategic

Feb 18, 2026

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

These pressures are driving renewed momentum behind co-packaged optics (CPO). According to LightCounting, sales of lasers and photonic integrated

Jul 26, 2025

CPO Is Extending The Limits Of What's Possible In AI...

AI data centers are starting to replace copper with co-packaged optics in an effort to reduce energy consumed per bit and increase bandwidth. The

Nov 21, 2025

Corning showcases AI data-center fiber at OFC 2026 | GLW Stock News

Co-packaged optics (CPO) technology: a form of connectivity that brings fiber to the chip, enabling faster data transmission, higher bandwidth density, and improved energy efficiency.

Sep 03, 2025

The Rise of Co-Packaged Optics (CPO): How It Redefines Data

Discover what Co-Packaged Optics (CPO) is, its architecture, benefits, challenges, and future trends in AI-driven data centers and high-speed networks.

Feb 09, 2026

Nvidia Invests \$4B in Co-Packaged Optics Suppliers Lumentum,

Nvidia's \$4 billion strategic investment in optical networking leaders Lumentum and Coherent marks a bold step to accelerate co-packaged optics (CPO) for AI-focused data centers.

Jan 21, 2026

Co-Packaged Optics (CPO) Technology Market Forecasts, Market

The global "Co-Packaged Optics (CPO) Technology market" is a dynamic and growing industry. By understanding the key trends, upcoming technologies, and growth opportunities, Co

Sep 15, 2025

Co-Packaged Optics (CPO) Solutions for AI

Analyst Perspective on Market Impact "Optical interconnect is no longer a luxury; it is a necessity for hyperscale AI to continue its exponential

Sep 06, 2025

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

Co-packaged optics (CPO) modules are advanced optical interconnect solutions that tightly integrate optoelectronic devices with high-speed electronic chips, widely used in data centers,

Dec 20, 2025

CO-Packaged Optic Market Outlook With Key Market Drivers

Growth is underpinned by collaborative efforts between optical component manufacturers, semiconductor companies, and system integrators to standardize CPO interfaces and packaging

Aug 25, 2025

Co-Packaged Optics 2022 -Focus Data Centers

Why is Co-Packaged Optics (CPO) such a hot topic today? For the past 50 years, mobile bandwidth requirements have evolved from voice calls and texting to UHD video and a variety of AR/VR

Jul 29, 2025

Co-Packaged Optics (CPO) Market Size to Hit USD

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 12, 2026

Co-packaged Optics Market Research Report 2033

The co-packaged optics market is characterized by intense competition and rapid technological innovation, with a diverse ecosystem of players spanning semiconductor manufacturers, optical

Jul 14, 2025

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,

Jul 05, 2025

Senior / Principal Applications Engineer – Advance Packaged Optics (CPO ...

The CPO Apps team will operates at the intersection of optics, high-speed electrical design, advanced packaging, and system architecture, providing hands-on technical support and successfully enable

May 12, 2026

Polymer Waveguides Revolutionize Co-Packaged

The continued advancement of CPO technology, driven by innovations like polymer waveguides, promises to reshape the landscape of optical

May 04, 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

May 09, 2026

AI fuels optical transceiver and LPO/CPO demand

A new LightCounting report reveals that optical transceiver sales and the adoption of linear pluggable optics (LPO) and co-packaged optics (CPO) are rising in AI

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