

Latest Trends in Co-packaged Optics



Overview

The Co-packaged Optics (CPO) market is poised for explosive growth, driven by the insatiable demand for higher bandwidth, reduced power consumption, and increased density in modern data centers. 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. But after nearly a decade of existence, where does this next-generation optical. Co-packaged Optics Market by Component (Optical Engines/Transceivers, Photonic Integrated Circuits (PICs), Lasers, Modulators, Electrical ICs, Optical Fibers and Waveguides, Others, Others), by Integration Level (Diesel Propulsion, Diesel-Electric, Fully Electric, Hybrid (Battery-assisted)). 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 remarkable growth trajectory is. In Signal AI's discussions with operators and vendors over the last month, it became clear that CPO is moving closer to real deployment, largely due to the explosion in AI bandwidth requirements. As we look over the horizon at the next generation (or two) of AI buildouts, CPO looks inevitable—at.



Article Content

Mar 15, 2026

Co-Packaged Optics: Market and Technology Update

This report dives deeper into CPO for insight on the technology and applications, the benefits and issues, its impact on pluggable optics, and Signal

May 01, 2026

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

Mar 10, 2026

Nvidia Unveils Game-Changing Optical Network Switch

Nvidia's new optical network switch, announced at GTC, promises to revolutionize AI data centers by drastically cutting power consumption and

Jun 10, 2026

The advent of co-packaged optics (CPO) in 2025

Co-packaged optics (CPO)—the silicon photonics technology promising to transform modern data centers and high-performance networks by

Nov 17, 2025

Co-packaged Optics Market 2026-2034 Analysis:

With the global Co-packaged Optics market poised for substantial growth, driven by an insatiable demand for bandwidth and energy efficiency, understanding its

Aug 11, 2025

NVIDIA, AMD back Ayar Labs' \$500M raise for optical

Specialised in co-packaged optics Ayar Labs says its optical interconnect chips can deliver between four and twenty times more computing

Oct 08, 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

Jul 30, 2025

Inside Nvidia's \$4B Optical Strategy—and Why CPO Changes

Last month, Nvidia made \$2 billion equity investments in two separate optical component suppliers: Coherent and Lumentum. Nvidia is securing its supply chain as it ramps its co-packaged

Feb 27, 2026

Just watched the full CEO interview with Vickram Vathulya \$SIVE on

Main focus areas he hammered: Both Photonics (pluggables + co-packaged optics in AI data centers) and Wireless (satcom, fixed wireless, defense) growing in parallel.

May 16, 2026

Co-Packaged Optics Market Size, Share, Trends and Forecast 2035

Co-packaged optics market is projected to grow at 34.7% CAGR through 2035, driven by AI data centers, 800G and 1.6T networking, silicon photonics, and hyperscale bandwidth demand.

Jun 11, 2026

Nvidia outlines plans for using light for communication

Earlier this year, Nvidia outlined that its next-generation rack-scale AI platforms will use silicon photonics interconnects with co-packaged optics

Jul 16, 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

Dec 03, 2025

Unlocking the Potential of Co-Packaged Optics in AI and HPC ...

Conventional pluggable optics face limitations in power, latency, and density, prompting the emergence of Co-Packaged Optics (CPO) as a transformative solution. By integrating photonics with ASICs,

Jul 30, 2025

NVIDIA Looks to Co-Packaged Optics for AI “Factories”

The US-based artificial intelligence (AI) computing multinational NVIDIA has announced its plan to leverage silicon photonics and co-packaged

Jan 05, 2026

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

Co-packaged optics involve integrating SERDES and optical interface electronics onto a package, potentially further integrating them into a single IC. Previous efforts have explored high-bandwidth,

Apr 19, 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

Jun 26, 2026

CPO Emerges as the New Sought-After as

On January 21, JCET announced a major breakthrough in its co-packaged optics (Co-Packaged Optics, CPO) technology development. Silicon

Nov 17, 2025

Coherent Demonstrates Multiple Technologies for Co

Coherent announced it will demonstrate multiple co-packaged optics (CPO) technologies at OFC 2026 in Los Angeles.

May 06, 2026

Co-Packaged Optics Market Research Report 2033

The surge in global data traffic, fueled by the proliferation of cloud computing, artificial intelligence, and edge computing, is a fundamental growth driver for the co-packaged optics market.

Nov 27, 2025

Co-Packaged Optics Market Growth, Size, Share & Industry Trends

Co-Packaged Optics Market Latest Trends The Co-Packaged Optics Market Market Trends indicate that global adoption is accelerating as AI, machine learning and cloud environments

Jul 11, 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,

Jul 22, 2026

Co-packaged Optics Market 2026-2034 Analysis:

Co-packaged Optics Market 2026-2034 Analysis: Trends, Competitor Dynamics, and Growth Opportunities Co-packaged Optics Market by Component (Optical

Oct 31, 2025

Where co-packaged optics (CPO) technology stands in 2026

Co-packaged optics (CPO) technology, a key enabler for next-generation data center architectures, promises unprecedented bandwidth density and power efficiency by tightly integrating

Dec 13, 2025

TSMC Advances in Silicon Photonics:

The company recently achieved the integration of co-packaged optics (CPO) with advanced semiconductor packaging technologies, with

Jun 04, 2026

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

Contact Us

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