

Optical Module CPO Industry Chain



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. C114 News July 30 (Shui Yi) Recently, market research firm LightCounting held its first online conference on CPO and related technologies. Currently, CPO R&D activity has reached an.



Article Content

May 11, 2026

Samsung Electronics 1Q26 Conference Call Q& A Key Takeaways (1)

Beyond silicon photonics devices, Samsung is also developing advanced-node processes, 3D packaging, and CPO technologies. Mass production for optical communication

Jul 16, 2025

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

Aug 12, 2025

Nvidia's \$4B Photonics Venture: What You Need to Know

Lumentum, a supplier of CPO-optimized laser modules, specializes in high-power continuous-wave laser chips used in external laser sources for CPO.

Sep 16, 2025

Nvidia's aggressive laser procurement spurs supply

Nvidia's reported effort to shore up its supply chain comes as it's set to launch its long-awaited co-packaged optic (CPO) offerings in 2026.

Aug 13, 2025

Coherent's \$23B Opportunity Lifted by NVIDIA's Optical Ambitions

Coherent's market on track to reach \$23 billion as NVIDIA's Spectrum-6 and Kyber drive structural demand for co-packaged optics components.

Apr 19, 2026

Co-Packaged Optics Market Market Report 2026-2036 | Future

Global co-packaged optics market report 2026-2036. Covers CPO architecture, AI data centre adoption, NVIDIA vs Broadcom CPO strategies & forecasts.

Mar 12, 2026

CPO & Silicon Photonics: AI's Interconnect Bottleneck and Who Profits

2026 is the inflection point where co-packaged optics (CPO) moves from concept to volume production. The market routinely conflates two very different paths. One is "optical

May 25, 2026

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,

May 08, 2026

Optical Communication Industry Trends 2026: AI, 800G/1.6T Optical ...

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules, silicon photonics, and next-generation data center connectivity solutions.

Mar 30, 2026

Global Co-packaged Optical (CPO) Modules Market Research Report

The report will help the Co-packaged Optical (CPO) Modules companies, new entrants, and industry chain related companies in this market with information on the revenues for the overall market and

Mar 18, 2026

AI Data Center Optical Transceiver Module Market 2025–2030

The AI-driven demand for optical transceivers represents the most significant growth catalyst in the optical communications industry.

May 17, 2026

Nvidia invests \$4B in co-packaged optics suppliers Lumentum ...

Lumentum, the first company in which Nvidia has invested, is among the world's top suppliers of CPO-optimized laser modules.

Jun 06, 2026

LightCounting: The CPO industry chain is thriving

Vipul Bhatt of Coherent said that CPO and pluggable optical modules target two markets with different needs. High-performance interfaces can bridge the gap and provide options for CPO

Mar 10, 2026

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

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

Aug 09, 2025

OFC 2026: Semtech Advances the Future of AI Data Center Optical

OFC 2026 in Los Angeles marked a defining moment for the optical and high-speed interconnect industry — and for Semtech. Held March 17–19 at the Los Angeles Convention Center,

Jan 14, 2026

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.

Oct 08, 2025

Coherent Demonstrates Multiple Technologies for Co

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

Sep 29, 2025

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

May 10, 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

Mar 25, 2026

Optical Module Stocks Surge Over 6% as 1.6T Era Begins

Automation Equipment Demand Surges The production of next-generation optical modules requires a significant leap in manufacturing technology. As the industry moves toward 3.2T,

Jul 30, 2025

GlobalFoundries' Unveils Optical Module Solution Targeting CPO

MALTA, N.Y., May 5, 2026 — GlobalFoundries (GF) has introduced an optical module solution for co-packaged optics (CPO). According to the company, the Silicon photonics Co-packaged Advanced

Aug 08, 2025

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

Jul 06, 2025

GlobalFoundries accelerates adoption of co-packaged optics with

SCALE CPO solution is said to be the industry's first OCI MSA capable platform and built with GF's proven silicon photonics technology. GlobalFoundries has introduced its SCALE™ optical

Mar 24, 2026

FormFactor and MPI vie to break SiPh test bottleneck as ficonTEC ...

As AI data centers officially enter the silicon photonics (SiPh) era, the industry faces severe challenges in testing accuracy and throughput on the path toward mass production of co

Jul 05, 2025

Global Co-Packaged Optics Module (CPO) Market 2025 by Company,

Co-Packaged Optics Module (CPO) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption

Oct 04, 2025

Optics Primer, Part 3: Co-Packaged Optics (CPO)

Optics Primer, Part 3: Co-Packaged Optics (CPO) From EML lasers and DSPs to silicon photonics and external CW lasers. How CPO works and the

Dec 10, 2025

Co-Packaged Optics — a deep dive | APNIC Blog

Today's focus is on CPO for switches because that's the immediate pain point. The industry is abuzz with excitement over this. The successful

Feb 12, 2026

What is Co-Packaged Optics (CPO) Technology? | Corning

Co-Packaged Optics (CPO) is a technology and design approach where optical components, such as lasers and photodetectors, are integrated alongside

Dec 12, 2025

Co-Packaged Optics (CPO) Insights: Market Outlook

Co-Packaged Optics (CPO) presents a promising solution to these challenges. Unlike traditional pluggable models, CPO integrates optical modules

Jan 04, 2026

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

IDTechEx's "Co-Packaged Optics (CPO) 2025-2035" explores

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