

# CPO Optical Module Technology Progress



## Overview

This report dives deeper into CPO for insight on the technology and applications, the benefits and issues, its impact on pluggable optics, and Cignal AI's predictions for CPO's future. Large-scale CPO deployment is still 3-5 years away, although initial commercial trials may. 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. Ciena's Matt Bolig explains how this shift is setting the stage for co-packaged optics to redefine how bandwidth is delivered inside the data center., May 04, 2026 (GLOBE NEWSWIRE) -- GlobalFoundries (Nasdaq: GFS) (GF) today announced the introduction of its SCALE™ optical module solution for co-packaged optics (CPO). GF's SCALE solution, or Silicon photonics Co-packaged Advanced Light Engine solution, is the industry's first Optical. MALTA, N.



## Article Content

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

IDTechEx's latest report, "Co-Packaged Optics 2025-2035: Technologies, Market, and Forecasts," explores these advancements in CPO technology and packaging techniques enabling its adoption.

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

The UCIe optical will redefine where copper is used. Copper remains a local-reach technology, optimized for in-package communication, while optics take over at package-to-package, ...

### 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. Developing robust testing, diagnostics, ...

### How open ecosystems will advance CPO adoption

Figure 5. Vesta 200 6.4T CPX pluggable CPO module The path to an open CPO ecosystem We are at the brink of a new age of optical connectivity as CPO emerges as the next ...

### The Rise of Co-Packaged Optics: A Deep Dive into CPO ...

A CPO optical module integrates optical and electronic components to boost data center speed, efficiency, and bandwidth while reducing power use.

### Progress in Research on Co-Packaged Optics

Compared to typical optoelectronic connectivity technology, CPO presents distinct benefits in terms of bandwidth, size, weight, and power consumption. This study presents an ...

### 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 ...

### GlobalFoundries" Unveils Optical Module Solution Targeting CPO ...

The SCALE CPO solution uses both coarse and dense wavelength-division multiplexing (CWDM and DWDM) for bi-directional data transmission over each optical fiber, delivering significant ...

### Co-Packaged Optics: Market and Technology Update

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GlobalFoundries accelerates adoption of co-packaged optics for ...

SCALE CPO solution is the industry's first OCI MSA capable platform and built with GF's proven silicon photonics technology MALTA, N.Y., May 04, 2026 (GLOBE NEWSWIRE) -- ...

## Contact Us

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