

Is CPO an optical module

Article Overview

Yes, CPO (Co-Packaged Optics) does count as an optical module. CPO integrates optical components directly onto the same substrate as the switching/routing ASIC, effectively functioning as an optical module . It is designed to enhance performance by placing optical engines alongside the data center switch ASIC, which is a shift from traditional pluggable optical modules . Thus, CPO is classified as a type of optical module within optical networking technology.

A: CPO optics are bonded directly next to the switch chip inside the hardware. This means you cannot simply swap a

Meanwhile, the optical module, enabled by silicon photonics, is now treated similarly to electronic chips, and advanced co-packaged

Unlike a conventional pluggable optical transceiver that slots into a front panel, a CPO optical module (often called an

To overcome these limitations, a new generation of optical interconnect technologies has emerged. LPO (Linear-drive

Revolutionizing Networking for the Era of Agentic AI NVIDIA's co-packaged optics (CPO) switches with integrated silicon photonics

We'll examine Linear Pluggable Optics (LPO) and Linear Receive Optics (LRO) as cost

Co-Packaged Optics (CPO) is an advanced integration of optics and silicon on a single packaged substrate addressing interconnect

CPO stands for Co-packaged Optics. It refers to the co-packaging scheme in which the switching chip and optical

Meanwhile, the optical module, enabled by silicon photonics, is now treated similarly to

Instead of relying on traditional pluggable optics, CPO uses tightly integrated optical and electrical components within the same

Compare CPO, NPO, and XPO optical modules for 800G/1.6T data centers. Evaluate power efficiency,



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integration,

CPO switches are shipping in 2026. Learn how co-packaged optics work, which platforms

NVIDIA is developing a co-packaged optics (CPO) platform that integrates optical and electrical components to

Co-packaged optics is the biggest change to switch design in a decade, and in 2026 it crossed from demo to shipping

We explain co-packaged optics (CPO), why they're important for data centers and networking, and the photonics

Source: IDTechEx The importance of advanced semiconductor packaging technologies for Co-Packaged

Web: <https://www.kremgroup.co.za>

