

## Optical Coupled Integrated Power Module Company



### Overview

ACON OPTICS has more than 20 years of design and manufacturing capabilities, expertise in fiber optics interconnect and optical components for solutions in telecommunications, data center, Fiber to the antenna, Fiber to the home, Video conference & Telehealth etc. SCALE CPO solution is the industry's first OCI MSA capable platform and built with GF's proven silicon photonics technology MALTA, N., May 4, 2026 – GlobalFoundries (Nasdaq: GFS) (GF) today announced the introduction of its SCALE™ optical module solution for co-packaged optics (CPO). GF's SCALE. OFC 2025 made one thing clear: The transition to Co-Packaged Optics (CPO) switches in data centres is inevitable, driven primarily by the power savings they offer. From Jensen Huang showcasing CPO switches at GTC 2025 to a wide range of vendors demonstrating optical engines integrated inside ASIC. The explosive growth of Artificial Intelligence (AI), High-Performance Computing (HPC), Machine Learning (ML), and Hyperscale Data Centres is pushing the limits of traditional network infrastructure. As data rates climb to 800G and beyond, existing pluggable transceivers are struggling to keep up. As the 2025 Optical Fiber Communications Conference and Exhibition (OFC) approaches, there has been

an increased industry spotlight on Co-Packaged Optics (CPO). CPO promises to address some of the most serious challenges emerging in traditional AI interconnects including cost, power, and bandwidth. Ranovus' standards compliant Odin® direct-drive CPO 3. San Diego, CA -. MALTA, N.

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This essentially provides an optical motherboard for chiplets. Because the photonic interposer can be large (3 to 4x reticle size), it can offer a very long "edge" — a continuous 2D ...



As AI clusters scale in size and complexity, traditional pluggable optical transceivers are reaching power and cost limitations. At Broadcom, we take pride in solving complex challenges, ...



By integrating optics directly with switch ASICs, CPO eliminates the need for long electrical traces, significantly reducing power consumption and signal loss. This direct integration improves overall ...



To address the challenge of replacing CPO modules in case of failure, ACON OPTICS is pioneering an innovative optical alignment solution for detachable CPO modules.



Your first-to-market optical signal processing chip innovation that delivers energy, bandwidth and manufacturing performance advantages. Scale with highly integrated photonic ICs built for low ...



These demonstrations highlight Coherent's ability to support multiple optical architectures for co-packaged optics, leveraging its expertise across key photonics technologies including indium ...



Ranovus' Odin® CPO 3.0 reduces power consumption, footprint, and cost of the system by 50% compared to existing solutions. Ranovus' monolithic Electro-Photonic Integrated Circuit ...



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The SCALE CPO solution, combined with GF's silicon photonics technology, entails an advanced portfolio of fully qualified photonic devices, including 50-Gbps and 100-Gbps micro-ring ...



Co-packaged optics-based networking switches with unmatched power efficiency and resiliency. NVIDIA's co-packaged optics (CPO) switches with integrated silicon photonics are the world's most ...

## Contact Us

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