

Xielida Optical Module



Overview

Co-packaged optics-based networking switches with unmatched power efficiency and resiliency. XPO represents a new class of optical pluggable module designed specifically for next-generation AI data center fabrics. 8Tbps of bandwidth using 64 electrical lanes and incorporates an integrated liquid-cooled cold plate capable of supporting 400W+ module power. By Xi Wang, Senior Vice President and General Manager of the Connectivity Business Unit, Marvell Marvell has become a founding member of the eXtra dense Pluggable Optics (XPO) Multi-Source Agreement (MSA), an industry initiative organized by Arista Networks to define a new optical transceiver form. Co-packaged optics-based networking switches with unmatched power efficiency and resiliency. Replacing pluggable transceivers with silicon. Integrated circuits and reference designs help you create a smaller and faster optical module design used in high-bandwidth data communication applications. Whether you are creating a 100-Gbps or 400-Gbps, small form-factor pluggable (SFP) module, SFP+ transceiver, XFP module, CFP, X2/XENPAK module. 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. With 400G modules now the baseline, 800G adoption is surging—especially across AI and hyperscaler environments—while 1.

Article Content

NVIDIA Silicon Photonics for Agentic AI Networking

Explore why co-packaged silicon photonics can accelerate large-scale AI model development and inference with benefits like lower power consumption, reduced latency, and network resiliency over ...

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

MALTA, N.Y., 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 ...

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface ...

Optical module – A comprehensive exploration

The optical module is one of the core devices of the optical communication system, and its development has a vital impact on its related industrial chain. So, what is an optical module? How ...

Optical module design resources | TI

Design requirements Modern optical module designs often require: Reduced power consumption to control and limit module temperature rise. Dynamic and precise control of laser diodes to regulate ...

PHOTOWAVE Product Sheet 1.4.24

Using two Photowave PCIe cards to connect an AMD Genoa server and Samsung Memory Expansion Module, CXL memory expansion over optics demonstrated a 2.4x throughput advantage compared ...

Marvell Joins XPO MSA To Accelerate Innovation in AI Optical Modules

XPO modules are designed to complement existing modules and other interconnect technologies rather than compete directly against them. Adoption of XPO will drive advances in ...

Optical Components and Modules

The monitoring product family includes advanced modules such as OCM and OTDR, as well as simpler pigtail integrated PD, tap or WDM PD in single-channel and array packages.

The Evolution of Optical Modules: 400G → 800G → 1.6T – A Strategic ...

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and upgrade strategies for future-ready data centers.

XPO: Redefining Pluggable Optics for AI Networking

Diagnosing and replacing a failed module within a fabric containing 50,000+ optical links presents a major operational challenge, often triggering cascading effects on job scheduling and leading to ...

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