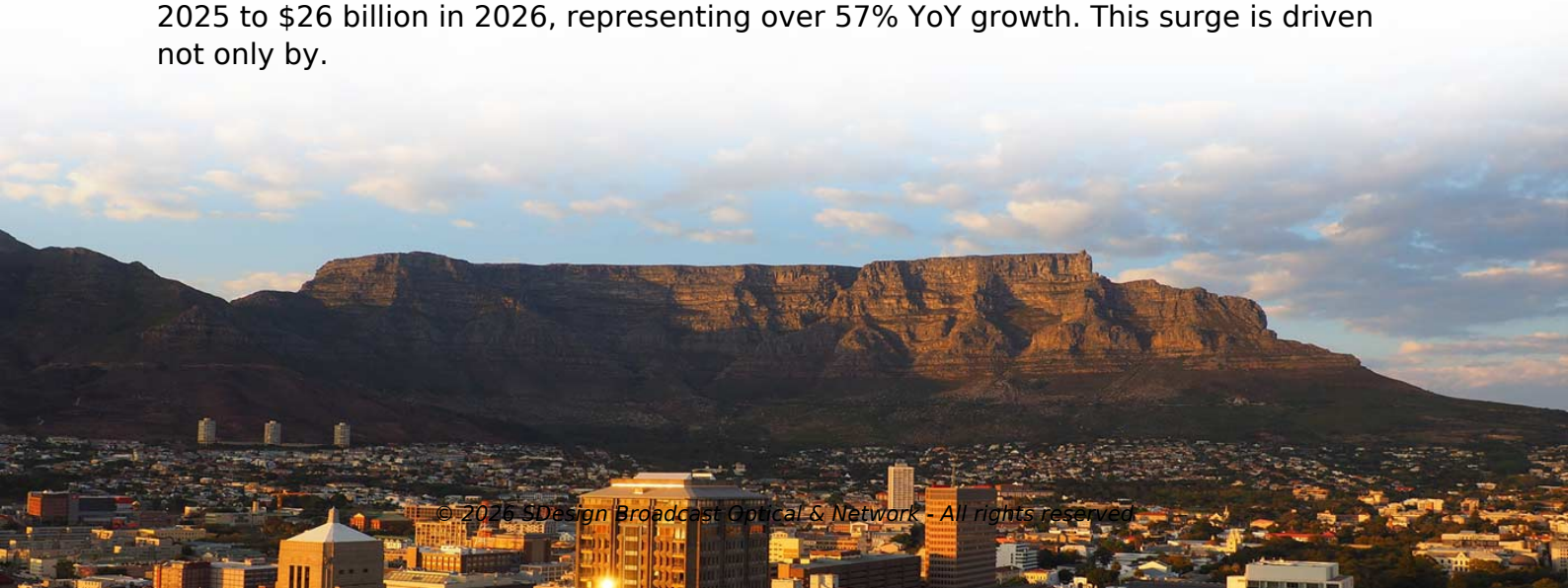
AI Optical Module Technology

Overview

Optical modules convert electrical signals into light to move data quickly and reliably in AI systems, enabling fast and smooth data processing. 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. Although co-packaged optics (CPO) and on-board optics (OBO) have been proposed to increase bandwidth density, these approaches introduce significant challenges in field serviceability, scalability, and manufacturability, making them difficult to deploy widely in hyperscale environments. Understanding their role is key to building efficient, scalable AI systems. With support for both coarse and dense wavelength-division multiplexing (CWDM. SAN JOSE, CA, March 16, 2026 –– POET Technologies Inc. (" POET " or the " Company ") (NASDAQ: POET), a leader in the design and implementation of highly-integrated optical engines and light sources for artificial intelligence networks, today announced a strategic collaboration with LITEON. TrendForce's latest research indicates that the global market for AI-focused optical transceivers has entered a phase of rapid growth, with market size projected to expand from US$16. 5 billion in 2025 to $26 billion in 2026, representing over 57% YoY growth. This surge is driven not only by.



Article Content

GlobalFoundries'' Unveils Optical Module Solution Targeting CPO ...

According to the company, the Silicon photonics Co-packaged Advanced Light Engine (SCALE) solution is the industry''s first Optical Compute Interconnect Multi-Source Agreement (OCI ...

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).

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 ...

GlobalFoundries Launches Industry-First SCALE Optical Module...

GlobalFoundries (GFS) unveils its SCALE™ optical module, setting a new benchmark for co-packaged optics and bandwidth density in advanced AI data centers. The new platform meets ...

XPO: Redefining Pluggable Optics for AI Networking

To address these challenges, Arista Networks, together with an ecosystem of more than 45 industry partners, introduces eXtra-dense Pluggable Optics (XPO) . XPO represents a new class of optical ...

How AI Revolutionizes the Optical Module Industry

Powered by the dual engines of AI and cloud computing, the optical module industry is evolving from a support role into strategic infrastructure. Whether it''s 800G/1.6T modules for core ...

Global AI Optical Transceiver Market to Reach US$26 Billion in 2026 ...

TrendForce''s latest research indicates that the global market for AI-focused optical transceivers has entered a phase of rapid growth, with market size projected to expand from ...

The Application of Optical Modules in AI Technology

Optical modules convert electrical signals into light to move data quickly and reliably in AI systems, enabling fast and smooth data processing. Using advanced optical modules boosts AI ...

AI-Embedded Optical Modules With Millisecond-Granularity Power ...

To address this need, we propose an intelligent optical module for edge deployment featuring millisecond-granularity power sampling and AI-driven analytics for high-precision monitoring of …

POET Technologies and LITEON Announce Joint Development of …

POET is a design and development company offering high-speed optical modules, optical engines and light source products to the artificial intelligence systems market and to hyperscale data …

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