

Optical module orders in 2026



Overview

2026 will be the first year of commercialization for 1.6T optical modules, with a global demand expected to reach 8. According to ZDNet, the company said in its 1Q26 earnings release that its foundry has secured orders from a major optical communication module provider. Samsung Electronics said it is currently in talks with several major global customers on commercialization and plans to begin mass production. 800G Optical Module: Rising Demand, New Breakthrough in Technical Roadmap By 2026, the shipment volume of 800G optical modules is expected to exceed 40 million units, with demand showing a pattern dominated by North America and followed by China. Meta, Google, Microsoft, and Amazon are the core. The Ethernet transceiver market was up 93% in 2024 and our latest estimates for 2025 suggest another 82% growth. We now forecast 65% growth for 2026, but maintain more conservative projections for 2027-2031, as illustrated in the figure below. The industry is rapidly transitioning to higher transmission speeds to support AI workloads.



Article Content

AAOI Applied Optoelectronics, Inc.

Optical, networking stocks surge after Applied Optoelectronics reveals hyperscaler order SA NewsTue, Mar. 24 6 Comments

Broadcom, Marvell set to benefit as 1.6T optical modules near mass ...

1.6T optical communication modules are set for broad adoption in AI data centers in 2026, with optical transceiver vendors and key IC design houses preparing for shipments.

Where co-packaged optics (CPO) technology stands in

Co-packaged optics (CPO) technology, a key enabler for next-generation data center architectures, promises unprecedented bandwidth density

AI Demand Ignites the Optical Transceiver Module Market in 2026

The optical module market in 2026 stands at an unprecedented inflection point for growth. The total addressable market (TAM) for global optical transceiver modules has been significantly revised

Google's High-Speed Interconnect Architecture

In an OCS-enabled architecture, Ironwood TPUs rely on high-speed copper for short-reach connections, while the all-optical network handles inter-rack data

Over 20 Million 400G & 800G Datacom Optical Module

Additional 3Q24 Optical Component Report Findings: The high-speed datacom optical market size is expected to expand from about \$9 billion in 2024

LightCounting :: Demand for optical connectivity continues to surprise

This report provides a detailed forecast for optical transceivers and a few related products used in Ethernet, CWDM/DWDM, FTTx, wireless infrastructure, Cloud data center and AI Cluster applications.

Nvidia Orders Surge: InnoLight and Eoptolink Dominate

It is foreseeable that with the follow-up orders from Nvidia and AMD's AI servers gradually coming to fruition, the performance of optical module

POET Technologies Receives \$5M Order for 800G

POET receives a production order over US\$5 million for Infinity optical engines, shipping in H2 2026. AI transceiver market forecast: US\$5B (2024) to

Optical Module Market Analysis and Forecast in 2026

AI computing power has driven explosive growth in the optical module market, with 800G and 1.6T technologies leading the industry transformation.

Optical Communication Industry Trends 2026: AI, 800G/1.6T Optical ...

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules, silicon photonics, and next-generation data center connectivity solutions.

POET Technologies Receives \$5 Million Production Order for 800G Optical ...

POET Infinity is a line of 400G optical engines that can be configured in a daisy-chain architecture to provide customers with 800G, 1.6T and beyond designs. For this particular module

Google's High-Speed Interconnect Architecture to Push

Based on TrendForce's projection that nearly 4 million Google TPUs will be shipped in 2026, demand for 800G-plus optical modules is expected to

800GbE Optics Shipments to Grow 60% in 2025

Innolight, Coherent, and Eoptolink are the largest suppliers of Datacom modules, with Coherent, Broadcom, and Lumentum as key sources of

Optical Module Industry Statistics 2026

Data centers will keep dominating optical module demand as AI and cloud drive revenue growth through 2030. Optical module demand is being pulled in two directions at once, faster

Silicon photonics and co-packaged optics at the heart of

While linear-drive pluggable modules remain competitive, CPO is expected to offer unmatched customization and scalability, with large-scale

Global Optical Modules Market Research Report 2026

Our research indicates that demand for 400G/800G and even 1.6T optical modules for cloud data centers and AI training clusters has been accelerating over the past two years, with the

Samsung Foundry Reportedly Wins Optical Module Order,

Samsung Foundry is reportedly stepping up its silicon photonics efforts. According to ZDNet, the company said in its 1Q26 earnings release that its foundry has secured orders from a major optical

Analysis and Forecast of the Optical Module Market in 2026

By 2026, the shipment volume of 800G optical modules is expected to exceed 40 million units, with demand showing a pattern dominated by North America and followed by China.

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

Why Optical Modules Matter Now Exponential Demand Growth: Shipments of 400G and 800G modules exceeded 20 million units in 2024, generating nearly \$9 billion in revenue. The optical

LightCounting :: Scale-up networks in AI Clusters is a

It clearly shows a very strong growth in sales of optics for AI in 2023-2025. Use of optical connectivity in AI scale-up networks will contribute to the market's

GlobalFoundries" Unveils Optical Module Solution Targeting CPO

MALTA, N.Y., May 5, 2026 — GlobalFoundries (GF) has introduced an optical module solution for co-packaged optics (CPO). According to the company, the Silicon photonics Co-packaged Advanced

POET Technologies Reports First Quarter 2026 Financial Results

POET Technologies Inc. ("POET" or the "Company") (NASDAQ: POET), the designer and developer of Photonic Integrated Circuits (PICs), light sources and optical modules for the AI and

Optical Module Package Market 2025

Optical Module Package Market was valued at 8942 million in 2024 and is projected to reach US\$ 20220 million by 2032, at a CAGR of 12.7%

Optical Module Chip Market 2025

The optical module chip market exhibits a fragmented yet competitive structure with global technology providers, semiconductor manufacturers, and specialized optical communication companies vying for

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