

Optical Module Industry News



AI Overview

The optical module industry is experiencing explosive growth driven by AI computing, with 800G and 1.6T technologies entering mass production and major companies expanding capacity globally. Market Growth and Technology Trends The global optical module market is projected to exceed 150 billion yuan by 2025, fueled by AI data center deployments and high-speed interconnect demand. 800G products are expected to achieve over 50% penetration, while 1.6T technology is entering a period of explosive mass production. Co-packaged optics (CPO) is becoming a standard in high-end chips, such as NVIDIA's GB300, directly boosting industry performance and revenue growth. Leading Companies and Performance Yuanjie Technology forecasts a 2953%–3442% year-on-year net profit increase in 2025, driven by mass production of 200G PAM4 EML optical chips and strong global shipments. Zhongji Xuchuang expects 890%–950% net profit growth, with over 5 million 800G optical module shipments projected in 2025, making it a global shipment leader. Source Photonics, a subsidiary of Dongshan Precision (DSBJ), is investing USD 1.2 billion in optical chip and module expansion projects in Changzhou and Suzhou to meet AI server interconnect demand, focusing on 800G and 1.6T modules and strengthening vertically integrated capabilities. Industry Expansion and Investment Source Photonics' expansion highlights a broader trend of capacity scaling across the optical communications sector. The company operates multiple manufacturing facilities in Taiwan, Jiangsu, Chengdu, and Thailand, forming a multi-region network to support global demand. Its high-speed optical modules and CPO technologies are increasingly critical for AI hardware vendors and cloud service providers. Key Takeaways AI-driven demand is the primary growth engine for optical modules. High-speed interconnects (800G, 1.6T) and CPO technologies are central to next-generation data centers. Major players are aggressively expanding production capacity and vertically integrating o...

Article Content

Top 10 Optical Module Manufacturers' Annual Reports ...

By 2025, its 800G optical module shipments will exceed 5 million units, making it the global "shipment champion" in the optical module industry, demonstrating significant economies of

800G Optical Modules Drive Market Recovery in 2025

800G modules drive optical market recovery in Q2 2025, with initial 1.6T shipments. This article highlights key trends in data center optics and AI

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Learn how Coherent empowers innovations and breakthrough technologies for the industrial, communications, electronics, and instrumentation markets.

KD — High-Speed Optical Connectivity Semiconductors

KD designs semiconductor ICs for multi-gigabit optical networking over fiber optics. Solutions for automotive, industrial, and consumer connectivity.

NVIDIA Corporation

1.6 Terabits Per Second Per Port Switches to Deliver 3.5x Energy Savings and 10x Resilience in AI Factories Joint Inventions and Collaborations

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.

Global AI Optical Transceiver Market to Reach US\$26

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

Economic Watch: From optical modules to chips -

The competitiveness of optical modules also largely hinges on the synergy of the complete upstream industrial chain, covering optical chips, ceramic packages and precision structural

Optical Transceiver Market Size, Share, Industry Report

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025. The market is expected to grow from USD 15.4 billion in

Deep Dive: Optical Module Market

Today, I'm excited to share an in-depth analysis of the global optical module market, an industry I find particularly compelling due to its critical role in data center networks for the

JX Advanced Metals to Invest JPY 120B Through FY2030,

Indium phosphide (InP) is becoming an increasingly important material for photonics in next-generation AI data centers, where supply remains tight. According to Nikkei, JX Advanced

Lumentum

Lumentum Holdings Inc. ("Lumentum"), a global leader in photonic solutions, today announced its showcase of technology and product demonstrations designed to meet the

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Goldman Sachs: AI chip ratio increases, optical module industry

Goldman Sachs predicts that even if AI chip sales slow down, the demand for optical modules will continue to grow due to the increase in the ratio.

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Optical Modules Market Size, Growth Trends & Forecast

Emerging innovations, including silicon photonics, integrated photonic chips, and coherent optics, are transforming the landscape of optical

Marvell Ushers In the 1.6T Era with Expanded Optical DSP Platform ...

Marvell has a multi-generational history of industry firsts. The company was the first to introduce 200G/lane 1.6T DSPs in 5nm with Marvell® Nova in 2023, followed by the 3nm 1.6T Ara

Optical Modules

This report aims to provide a comprehensive presentation of the global market for Optical Modules, focusing on the total sales volume, sales

Technology Partner for Optics, Photonics and

As a global photonics company, we focus on optical technologies and use the potential of light to advance our customers in global markets!

AI Data Centers Are Pushing the Connectivity

Industry Context: Why Optical Interconnect Matters in AI Data Centers AI data centers require large numbers of accelerators to operate as

Fiber Optic FPV Drone Manufacturer & Supplier China

Explore new horizons with Cloud Walker! As a pioneer in low-altitude economy solutions, Cloud Walker delivers a full spectrum of cutting-edge products—from

Optical Modules Market Research Report 2034

The global optical modules market exhibited a moderately fragmented competitive structure in 2025, characterized by the presence of a small number of large diversified networking and photonics

Photonics

Photonics Spectra is a global photonics resource and magazine with news, products, research, and applications covering optics, lasers, imaging, and sensing.

How Industry Collaboration Fosters NVIDIA Co

NVIDIA is developing a co-packaged optics (CPO) platform that integrates optical and electrical components to improve data-center connectivity,

Co-Packaged Optics (CPO) Market Trends 2026: AI Data Center Optical ...

Explore the future of co-packaged optics (CPO) in AI data centers. Learn how silicon photonics, optical I/O, and high-speed optical interconnect technologies are shaping next-generation

Coherent's \$23B Opportunity Lifted by NVIDIA's Optical

Coherent's market on track to reach \$23 billion as NVIDIA's Spectrum-6 and Kyber drive structural demand for co-packaged optics components.

Gigac Technology

Gigac is a leading manufacturer of fiber optic communication components and GPON equipment. We specialize in producing a wide range of optical

Five Key Trends of Co-Packaged Optics (CPO) in 2026

New approaches to fiber coupling and optical alignment—ranging from edge and vertical coupling to advanced passive and active alignment

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