Mass shipment of optical modules



Overview

The global optical module market size is projected to exceed 150 billion yuan by 2025, with 800G products achieving a penetration rate of over 50%. 6T technology is entering a period of explosive mass production, and CPO (co-packaged optics) has become a standard feature in. After explosive growth in 2024, 800G Datacom optics for AI and general computing applications will be the fastest growing segment of the market in 2025, according to the latest Optical Components Report from research firm Cignal AI. 6T optics will enter volume production in select Nvidia and. As the core technology for next-generation optical interconnection, CPO (Co-Packaged Optics) integrates the optical engine and switch chip through co-packaging, achieving reduced power consumption, increased density, and optimized costs. Coupled. The growth in demand for computing power driven by AI continues unabated. Recently, industry insiders reported that Nvidia will increase its order volume for 800G optical modules in 2026, with an expected increase of 35%.

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Article Content

Foxconn CPO Switch Target Strains Optical Module Supply Chain, 2026

This ramp-up is driving surging demand for high-speed optical modules, micrometer-precision PCB carrier substrates, and high-reliability electrical connectors. Several domestic

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.

Nvidia Orders Surge: InnoLight and Eoptolink Dominate 60% of 800G

According to sources, the additional 800G optical module orders from Nvidia are primarily captured by InnoLight and Eoptolink, accounting for 60%, with the remaining 40% divided among

800GbE Optics Shipments to Grow 60% in 2025

Datacenter interconnect applications continue to consume record numbers of pluggable coherent modules. 400ZR and ZR+ accounted for the bulk of WDM bandwidth deployed in 2024, and

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

Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are

Innolight and Eoptolink are estimated by industry sources to supply roughly 60% of NVIDIA''s 800G volume, controlling the critical plumbing of AI data center optical interconnects. Yet

Optical Module MCUs Become Critical as AI Data Centers Drive

MCU chips for optical modules emerge as a critical semiconductor segment as AI data center buildout drives 800G/1.6T demand, with domestic players GigaDevice and Nations

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 scale.

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Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are

Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are Chip Companies Still Making the Money? Assembly Powerhouse, Chip Desert: The Structural Limits of China''s Optical

Optical Transceiver Market Size, Growth Drivers

The Optical Transceiver Market worth USD 15.42 billion in 2026 is growing at a CAGR of 13.67% to reach USD 29.26 billion by 2031. Coherent

2025 Optical Transceiver Trend: 1.6T Has Entered Mass Production,

I. 2025 1.6T Optical Transceivers: Mass Production Wave Arrives, Supply-Demand Gap Emerges 2025 has become the "breakthrough year" for large-scale commercialization of 1.6T optical

LightCounting Predicts Explosive Growth for OCS and Optical Modules

LightCounting projected that the shipment volumes of optical transceiver modules and Optical Circuit Switches (OCS) will see explosive growth over the next five years.

Optical Transceiver Market Size, Share, Industry Report – 2035

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 2026 to USD 28.6 billion in 2031 &

Cignal AI: 400G and 800G Optical Module Shipments Quadruple

The demand for high-speed datacom optical modules has surged, with shipments of 400G and 800G units exceeding 20 million in 2024, totaling over $9 billion in revenue, according to Cignal

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.

800GbE Optics Shipments to Grow 60% in 2025

Additional Findings from the 4Q24 Optical Component Report: The datacom optical component market will grow 60%+ to reach over $16B in revenue during 2025, based primarily on

Optical Module Industry Statistics (2026): Expert Analysis

Optical Module Industry Statistics Optical module demand is reshaping faster than most forecasts, with 2026 growth pointing to a clear

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Datacom optical modules demand reaches record levels – Cignal AI

Datacom optical modules demand reaches record levels – Cignal AI Research firm Cignal AI reports that 400GbE and 800GbE optical module shipments for datacom and telecom applications

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