800G of optical modules in stock

Overview

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 infrastructure investment.

Key Takeaways

The 800G optical module market is experiencing strong demand, with InnoLight and Eoptolink capturing 60% of current high-volume orders, while overall supply remains constrained by AI-driven data center growth.

Current Supply and Major Suppliers

The surge in AI infrastructure, particularly Nvidia's expansion of GPU clusters, has significantly increased demand for 800G optical modules. In 2026, Nvidia alone is expected to increase its 800G module orders by 35%, with InnoLight and Eoptolink securing 60% of these orders, and the remaining 40% distributed among U. S. vendors like Coherent, Lumentum, and Broadcom.

This concentration indicates that stock availability is largely dependent on these leading suppliers.

Market Size and Growth

The global 800G optical module market was valued at $4. 8 billion in 2025 and is projected to reach $28. 6 billion by 2034, growing at a CAGR of 22.

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1%. The market is driven by AI, machine learning, hyperscale cloud operators, and the expansion of 5G and beyond-5G networks. Hyperscalers such as AWS, Microsoft Azure, Google Cloud, and Meta are major consumers, collectively investing hundreds of billions in data center infrastructure, with optical modules forming a critical component.

Stock Considerations

Due to high demand, short-term stock may be limited, especially for large-scale deployments like Nvidia's GB200 servers, which require tens of thousands of 800G DR8 modules per cluster. The market is also influenced by the maturation of coherent optics, silicon photonics, and co-packaged optics, which are gradually increasing production efficiency and reducing costs. However, supply remains tight for immediate procurement, particularly for high-volume enterprise or hyperscale orders.

Regional and Vendor InsightsAsia-Pacific dominates production, with major suppliers like InnoLight and Eoptolink headquartered in the region. North America relies on a mix of domestic and imported modules, with companies like Coherent, Lumentum, and Broadcom contributing to supply. Europe and Latin America are emerging markets, with adoption increasing as cost-per-gigabit declines and ecosystem readiness improves.

Practical Implications

For organizations seeking 800G modules, early engagement with suppliers is critical due to high demand and limited immediate stock. Customized solutions and pre-orders are often necessary to secure modules for large-scale AI or data center deployments. Market trends suggest that while supply will gradually expand, short-term availability may remain constrained, particularly for the most advanced 800G DR8 and coherent modules.

In summary, 800G optical modules are in high demand with limited immediate stock, dominated by InnoLight and Eoptolink, and the market is expected to grow rapidly over the next decade, driven by AI, hyperscale cloud, and next-generation networking infrastructure.

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Article Content

Global 800G Optical Module Market Size, Share, Growth Analysis ...

800G Optical Module Market size was valued at 1.5 billion USD in 2025 & is estimated to reach 5.0 billion USD by 2034, exhibiting a CAGR of 15.0%from 2026-2034

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 infrastructure investment.

Pluggables, Power, and Geopolitics: Mapping the 800G and 1.6T

Data indicates that the deployment of 800G optical transceivers is expected to double in 2025 compared to 2024 levels.9 Furthermore, the transition to 1.6T is occurring faster than anticipated.

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

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 – report

The datacom optical component market will grow 60%+ to reach over US$16 billion in revenue during 2025, based primarily on continued growth in 400G and 800G shipments. Innolight,

Deep Dive: Optical Module Market

The industry is moving towards using 1.6T modules primarily for model training, while 800G modules, which are currently heavily used for training, are expected to be more focused on

Global 800G Optical Module Supply, Demand and Key Producers,

An 800G Optical Module refers to a high-speed optical transmission module used in data centers and telecommunications networks. It is designed to transmit data at a rate of 800 Gigabits per second

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China Optical Module Stocks: Zhongji Innolight, Eoptolink, TFC | 2026

AI data-center buildout from US hyperscalers and Chinese cloud providers has driven 800G optical module demand sharply higher. Zhongji Innolight has seen >100% 12-month stock

800G Optical Module Market Research Report 2034

The 800G optical module market is led by Cisco Systems, Inc., which benefits from its acquisition of Acacia Communications and its broad portfolio of 800G coherent modules.

Optical Transceiver Market Price Trends 2026: TCO & Risks

Discover the real engineering TCO behind optical transceiver market price trends in 2026. Explore 800G thermal risks, LPO failures, and hidden OPEX metrics.

AI Data Center Optical Transceiver Module Market 2025–2030

The AI data center optical transceiver market is undergoing the most significant growth phase in its history, driven by the convergence of exponential AI workload expansion, the physics-imposed

China''s Optical Module Leader Eoptolink Sees Market Cap Surge

Driven by explosive demand for AI computing power, Eoptolink (300502.SZ), a leading Chinese optical module manufacturer, has seen its market capitalization surpass 420 billion yuan

Source Photonics to Expand Optical Chip and Module Production

Source Photonics is one of the world''s leading optical communications suppliers, with operations spanning optical chip R&D, wafer manufacturing, packaging and testing, and optical

Zhongji Innolight: AI''s Most Contested Chinese Supplier

Amazon signed a potential $4bn agreement with Applied Optoelectronics, a Texas-based module manufacturer, for 800G products. Both Innolight and Eoptolink, one of China''s largest optical

FS Launches 800G ZR/ZR+ Coherent Optics: High ...

FS 800G ZR/ZR+ Coherent Modules: Built for High-Capacity and Reliable Optical Networks FS''s 800G ZR/ZR+ coherent optical modules combine high-capacity coherent transmission, carrier

Key Differences Of 100G, 400G, And 800G Explained

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optical modules with different rates have been launched one after another, among which 100G, 400G and 800G optical modules have become the

800G Optical Transceivers: The Guide for AI Data Centers

The complete guide to 800G Optical Transceiver standards (QSFP-DD vs. OSFP). Overcome supply shortages and scale your AI data center with Utmel Electronic.

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