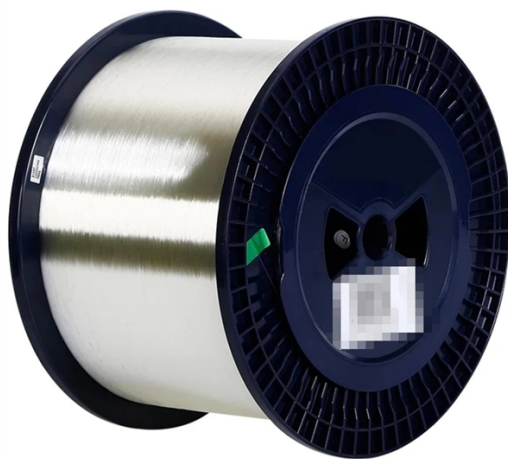


The most advanced company in optical modules



Overview

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 8.

Key Takeaways

Coherent, Lumentum, Broadcom, and Intel are among the most advanced companies in optical modules, leading in high-speed lasers, silicon photonics, and 800G/1.6T optical systems. Leading Global Players

Coherent (US) is a top supplier of VCSEL arrays, InP-based EML/DFB lasers, and photonic components, providing critical technology for 800G and future 1.6T optical systems, making it a key innovator in optical module performance and integration . Lumentum (US) specializes in high-speed EML and DFB laser chips, supporting hyperscale data centers and AI computing infrastructure, and is recognized for its advanced optical engine technologies . Broadcom (US) leads in silicon photonics integration and VCSEL-based architectures, enabling high-density, low-power optical modules for data centers and telecom networks . Intel (US) pioneers SOI-based silicon photonics platforms, driving the evolution of co-packaged optics (CPO) and high-speed optical interconnects for AI and cloud computing applications . Cisco (US) focuses on system-level silicon photonics integration, providing end-to-end solutions for high-speed optical networks .

Emerging Chinese Leaders



Yuanjie Technology has achieved mass production of 200G PAM4 EML optical chips and is a core supplier for fiber optic access, 5G, and data centers, competing directly with global leaders like Broadcom and Lumentum . Zhongji Xuchuang holds a leading 800G optical module market share (over 30%) and is the first domestic company to mass-produce 1.6T optical modules, serving top cloud vendors such as Google, Microsoft, and Alibaba Cloud . Zhongji Innolight integrates R&D, design, packaging, and testing of high-end optical transceivers, providing 100G to 800G modules for cloud and telecom networks, and is recognized as a global leader in datacom optical modules .

Technological Highlights

- 800G and 1.6T modules: These high-speed modules are critical for AI data centers and hyperscale internet infrastructure .
- Co-packaged optics (CPO): Standard in high-end chips, reducing latency and power consumption while increasing bandwidth .
- Silicon photonics: Enables integration of optical components on a chip, improving density and efficiency .
- Full-stack capabilities: Leading companies provide end-to-end solutions from chip design to module testing, ensuring reliability and scalability .

Conclusion

While multiple companies excel in optical module technology, Coherent, Lumentum, Broadcom, and Intel are globally recognized as the most advanced in terms of innovation, silicon photonics integration, and high-speed optical systems. In China, Yuanjie Technology and Zhongji Xuchuang are rapidly advancing, achieving mass production of 800G and 1.6T modules and competing with international leaders in both technology and market share .

Article Content

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

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Top 10 AI Optical Chips Companies to Watch in 2025 and Beyond

Explore the evolving AI Optical Chips market as we profile ten industry top players shaping innovation, efficiency, and competitive

Top 10 Optical Module Brand & Manufacturers

Chengdu Eoptolink Communication Technology Co., Ltd. (hereinafter referred to as "Eoptolink") was established in Chengdu, China

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Top 10 Optical Module Brand & Manufacturers

This section provides a list of the top 10 Optical Module manufacturers, Website links, company profile, locations is provided for each

Top 10 Optical Module Manufacturers' Annual Reports ...

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The latest ranking of the TOP10 global optical module suppliers ...

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Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025 and is projected to

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Marvell has a multi-generational history of industry firsts. The company was the first to introduce 200G/lane 1.6T

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Developer of optical interconnect solutions for artificial intelligence infrastructure applications. The company provides

Standing in the Light: A Comprehensive Guide to the Optical Module

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