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Ranking of Domestic Optical Module Chip Foundries



Overview

Semiconductor fabrication plants are factories where integrated circuits (ICs), also known as microchips, are manufactured.

Key Takeaways

Domestic optical module chip foundries in China are generally classified into first-tier, second-tier, and emerging/potential-tier companies based on technology, production capacity, and market influence.First-Tier Foundries

These companies are global competitive leaders in high-speed optical modules, particularly in the 400G/800G data center segment. They possess a complete capability chain from optical components to modules and subsystems, and maintain strong integration with North American cloud providers and AI computing networks. Key first-tier companies include:

• Yuanjie Technology: Achieved mass production of 200G PAM4 EML optical chips, with top-three global optical chip shipments. It serves fiber optic access, 5G, and data center markets, directly competing with Broadcom and Lumentum, and covers the full process from chip design to epitaxial growth .

• Zhongji Xuchuang: Holds over 30% of the domestic 800G optical module market and is the first to mass-produce 1.6T optical modules. It has full-chain capabilities from chip packaging to module testing and serves top global cloud vendors like Google, Microsoft, and Alibaba Cloud .

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• Innolight: Global leader in datacom optical modules, offering 100G to 800G modules for cloud data centers and telecom networks .

• Accelink Technologies: Provides comprehensive solutions from chips to subsystems, with strong R&D in silicon photonics, III-V, and PLC platforms .

• Eoptolink: Leading manufacturer of high-speed optical modules in China, with a focus on data center and telecom applications .

Second-Tier Foundries

These companies focus on optical components, packaging, and system integration, mainly serving midstream markets. They have strong capabilities in high-speed optical component packaging and modularization, and maintain a presence in both domestic telecom and overseas markets . Examples include:

• Huagong Tech: Specializes in optical components and modules for access networks and communication terminals .

• Linktel: Provides optical modules and system integration solutions for telecom and data communication networks .

• CIG Shanghai Co., Ltd.: Focuses on optical components and modules with moderate global reach .

Emerging/Potential-Tier Foundries

These are smaller or rapidly growing companies with promising technology but limited production scale or market share. They are often involved in niche applications or early-stage high-speed optical chip development. Notable mentions include:

• Shijia Photons and Yuanjie Semiconductor: Expected to make breakthroughs in high-speed PCB and optical chip technologies .

Industry Trends

• The domestic optical module industry is experiencing rapid growth driven by AI, 5G, and data center expansion, with 800G modules achieving over 50% penetration and 1.6T technology entering mass production .

• Companies are increasingly investing in silicon photonics, co-packaged optics, and high-speed laser/detector integration to compete globally .

• First-tier companies are expanding overseas, while second-tier and emerging companies focus on midstream integration and niche markets . This tiered classification provides a practical framework for evaluating domestic optical module chip foundries based on technological capability, production scale, and market influence.

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List of MEMS foundries The list below provides an overview of companies that develop and fabricate MEMS (microelectromechanical

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Explore the booming Optical Module Chip market forecast (2025-2033). Discover key drivers like 5G, data centers,

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