

Silicon Photonics Module Price Quote

Article Overview

Silicon photonics modules typically range from \$1,000 to \$5,000 per unit, depending on speed, integration, and application.

Estimated Pricing

The price of silicon photonics modules varies widely based on data rate, integration level, and manufacturer. For example, 100G transceivers are generally at the lower end of the price spectrum, while 400G and 800G modules for hyperscale data centers or high-performance computing (HPC) can cost several thousand dollars per unit. Market reports indicate that the global silicon photonics modules market is projected to reach \$3.27 billion by 2025, reflecting high adoption in data centers, cloud computing, and AI-driven applications, which implies per-unit costs in the \$1,000-\$5,000 range depending on volume and specifications .

Factors Affecting Price

- **Data Rate and Bandwidth:** Modules supporting higher speeds (400G, 800G) are more expensive due to advanced photonic integration and co-packaged optics .
- **Integration Level:** Modules with co-packaged optics or on-chip integration reduce power consumption and footprint but increase manufacturing complexity, affecting cost .
- **Manufacturer and Market Share:** Leading companies like Intel, Cisco Systems, and InPhi (Marvell) dominate the market, controlling pricing through proprietary technology and economies of scale .
- **Volume and Supply Chain:** Bulk purchases for hyperscale data centers can reduce per-unit cost, while smaller orders for specialized applications may be more expensi...

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The Silicon Photonic Module Market Size was valued at 1,360 USD Million in 2024. The Silicon Photonic Module Market is expected

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Market Insights: 800G & 1.6T Silicon Photonics Optical Modules

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It outlines key market players, emerging materials (such as TFLN, and BTO), and key applications such as AI, to forecast the growth

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Silicon Photonics Integrated Module Market Size & Forecast

The Silicon Photonics Integrated Module Market represents a dynamic and evolving sector within the broader photonics industry,

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Silicon Photonics Modules Market Research Report 2034

Silicon Photonics Modules Market Outlook 2025-2034 The global silicon photonics modules market was valued at \$1.99 billion in

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Silicon Photonics Market Size & Share 2026

Silicon Photonics Market Size The global silicon photonics market was estimated at USD 1.8 billion in 2025. The market is expected

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Silicon Photonics Companies

Silicon Photonics industry insights on factors that are driving the growth of the Silicon Photonics Market and key players along with

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Decoding Silicon Photonics Optical Module's Market Size Potential by

The Silicon Photonics Optical Module market is booming, projected to reach \$1005.3 million by 2025, with a 6.7%

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Global Silicon Photonics Modules Competitive Landscape

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Data Center Silicon Photonic Module Market: Leadership Changing

Data Center Silicon Photonic Modules contribute to enhanced data center performance, characterized by faster data

Contact Us

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