

Industry Ranking of Silicon Photonics Module Companies



Overview

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

Key Takeaways

Leading silicon photonics module brands in 2026 include Cisco Systems, Intel, IBM, NeoPhotonics, Hamamatsu Photonics, and STMicroelectronics.

Leading Companies and Market Position

Cisco Systems (USA) – Cisco is a major player in silicon photonics, integrating photonic modules into networking solutions for data centers and telecoms. The company focuses on high-speed optical interconnects and co-packaged optics, leveraging acquisitions and in-house R&D to maintain a strong market presence. Intel Corporation (USA) – Intel is a pioneer in silicon photonics, developing optical transceivers and integrated photonic chips for cloud infrastructure and high-performance computing.

Its strategy emphasizes vertical integration, combining electronic and photonic components on a single chip for low-power, high-speed data transmission.

IB

M (USA) – IBM contributes to silicon photonics through research and development of integrated photonic systems, targeting AI data centers and high-bandwidth optical interconnects. IBM's solutions focus on scalable, energy-efficient optical modules.

Neo

Photonics (USA) – Specializes in high-speed coherent optical modules and transceivers, with strong adoption in telecom and hyperscale data centers.

Neo

Photonics emphasizes advanced silicon photonics integration for next-generation networking. Hamamatsu Photonics (Japan) – Known for optical components and photonic devices, Hamamatsu leverages silicon photonics for high-performance optical modules, particularly in specialized applications such as sensing and communications.

ST

Microelectronics (Europe/USA) – STMicroelectronics develops silicon photonics chips and collaborates with cloud and telecom providers. Its focus is on integrating photonic components with electronics for scalable optical solutions.

Other Notable Players

Coherent Corp. (USA) – Offers a broad portfolio of optical transceivers, including high-speed coherent modules, and has a strong R&D and acquisition history.

Zhongji Inno

Light (China) – Leading supplier of high-speed pluggable optics (800G and above), rapidly growing in hyperscale data centers.

MACO

M, Lumentum, Marvell, Rockley Photonics – These companies provide specialized silicon photonics solutions, including optical chips, transceivers, and integrated photonic systems.

Market Trends

Integration vs. Specialization – Companies like Intel and Cisco pursue integration of electronics and photonics, while firms like Ayar Labs and Rockley Photonics focus on vertical specialization for niche applications. Regional Growth – North America remains a key market, while Asia Pacific is experiencing rapid adoption due to data center expansion and telecom infrastructure growth.

Technological Drivers – Co-packaged optics, AI data center buildouts, and high-bandwidth, low-power optical interconnects are driving the adoption of silicon photonics modules. These companies represent the top-tier silicon photonics module brands globally, distinguished by their technological innovation, market share, and strategic positioning in high-speed optical networking and data center applications.

Article Content

Silicon Photonics Companies

Silicon Photonics industry insights on factors that are driving the growth of the Silicon Photonics Market and key players along with their go to market strategies and new revenue sources.

Top 6 Silicon Photonics Companies Worldwide 2026

The top 6 silicon photonics companies in 2026, including Cisco Systems, Intel, IBM, NeoPhotonics, Hamamatsu Photonics, and STMicroelectronics globally.

Silicon Photonics Market Size, Growth Drivers & Industry Analysis, 2031

The Silicon Photonics Market worth USD 3.96 billion in 2026 is growing at a CAGR of 27.19% to reach USD 13.18 billion by 2031. Intel Corporation, Cisco Systems Inc., Lumentum

Top 100 Silicon Photonics Companies in 2026 | ensun

Discover all relevant Silicon Photonics Companies worldwide, including Analog Photonics and Intel Corporation (UK)

Top 10 companies in Silicon Photonics Market in 2023

Top 10 Companies In Silicon Photonics Market Rise in adoption of 2.5D integrated onboard silicon photonics by data centers and rising demand for high bandwidth, high data transfer,

Top Silicon Photonics Modules Companies & How to Compare

Silicon photonics modules are transforming high-speed data transmission, enabling faster, more efficient communication networks. As demand for bandwidth surges, choosing the right

Top Photonic Quantum Computing Companies in 2026

We've organized a list of the top photonics companies as of 2026. Read on to learn more about the state of the photonics industry.

Silicon Photonics Modules

This report provides a comprehensive view of the global market for Silicon Photonics Modules, covering total sales volume, sales revenue, pricing, the market share and ranking of key companies, along

Optical Component Startup Tracker

The number of venture-backed optical component startups has exploded - the Optical Component Start-Up Tracker identifies these companies and their value propositions.

Ansys | Engineering Simulation Software

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The Silicon Photonics Market refers to the global industry involved in the research, development, manufacturing, and application of silicon photonics technology. This technology uses silicon as an

eeNews Power ...

Infineon Technologies has introduced what it describes as the industry's first TLVR-based quad-phase power module exceeding 2 A/mm²,

Silicon Photonics Companies

In contrast, companies like Ayar Labs and Rockley Photonics have chosen vertical specialization, concentrating on niche applications and delivering tailored photonic solutions for sectors such as AI,

Optical Modules

From an industry chain perspective, the upstream includes core components such as high-speed SerDes/DSP chips, laser/detector chips, silicon photonics chips, optical devices, and

Silicon Photonics Companies

List of the top Silicon Photonics companies based on extensive research conducted by Mordor Intelligence analysts and expert advisors that identified these brands to be the leaders and major

Silicon Photonics Market (2024-2034)

Silicon photonics market size was valued at USD 1.6 Billion in 2024 and is anticipated to reach USD 8.5 Billion by 2034 at a CAGR of 18.0%. In terms of revenue, Telecommunication & IT

Silicon Photonics Market Size, Share and Trends

The silicon photonics market was valued at USD 2.16 billion in 2024 and is projected to reach USD 9.65 billion by 2030, growing at a CAGR of 29.5% from 2025 to 2030.

Global Silicon Photonics Market Report 2025-2035, with Profiles of

The Global Silicon Photonics Market 2025-2035 provides an in-depth analysis of the rapidly evolving industry, covering market trends, technological developments, and growth

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