

High-end silicon photonics module manufacturer



AI Overview

Top high-end silicon photonics module manufacturers include Intel, Cisco Systems, IBM, NeoPhotonics, Hamamatsu Photonics, and STMicroelectronics, recognized for advanced optical integration and high-speed data solutions. Leading Companies and Market Position

Intel Corporation (US) – Intel is a global leader in silicon photonics, integrating optical and electronic components on a single chip for high-performance computing and data center applications. Their solutions include optical transceivers and modulators, with a strong focus on vertical integration and R&D for low-power, high-speed data movement.

Cisco Systems (US) – Cisco leverages silicon photonics to enhance networking and telecommunications performance. Their modules are widely used in data centers and cloud infrastructure, emphasizing integration with existing networking solutions and software-defined networking capabilities.

IBM (US) – IBM develops silicon photonics modules for high-speed optical interconnects, focusing on AI data centers and high-performance computing. Their technology supports scalable, low-latency optical communication.

NeoPhotonics (US) – Specializing in ultra-pure light lasers and optoelectronic products, NeoPhotonics offers silicon photonic COSA modules operating at 400Gb/s per wavelength, with ongoing research for 800G and higher. Their solutions are central to AI data center infrastructure and co-packaged optics applications.

Hamamatsu Photonics (Japan) – Known for photodiodes, silicon PIN photodiodes, and other silicon-based optical devices, Hamamatsu serves scientific instrumentation, medical imaging, and emerging quantum photonics markets.

STMicroelectronics (Switzerland/Italy) – STMicroelectronics provides semiconductor solutions with integrated silicon photonics capabilities, supporting imaging, sensing, and optical interconnect applications.

Other Notable High-End Pla...

Article Content

Top 10 companies in Silicon Photonics Market in 2023

For high-volume optics applications, Rockley Photonics is a fabless supplier of silicon photonics chipsets, IP, and custom designs. Rockley's fundamental technological platform was

Roadmapping the next generation of silicon photonics

What will the next generation of silicon photonics look like? What are the common threads in the integration and fabrication bottlenecks that silicon photonic applications face, and

Leti (english)

Europe has the expertise and skills to promote a more responsible digital sector (frugality, regulation, ethics) that creates high-quality jobs. However, mastery of

Silicon Photonics (SiPho)

Tower Semiconductor's Silicon Photonics foundry offering is designed to address the growing demand for the o-band and c-band data center interconnect market. The platform is offered at Tower

Advanced Photonics Solutions

Our portfolio of high-end light sources—including SLEDs, femtosecond fiber lasers, and broadband light sources—powers next-generation systems in navigation, diagnostics, imaging, and augmented

Lightmatter®

Lightmatter has joined the NVIDIA NVLink Fusion ecosystem, bringing our photonic interconnects to the AI infrastructure powering the world's most advanced

Photonics assembly and testing - From Lab to Fab - ficonTEC Service

ficonTEC provides device micro-assembly and testing solutions for the photonic device industry. These solutions are realized as cutting-edge, high-precision production systems utilizing advanced

Silicon Photonics Manufacturing Ramps Up

Silicon photonics also is poised to revolutionize image projection technology. By leveraging its ability to manipulate light with precision, silicon photonics can enable the development

2026 Semiconductor Industry Outlook | Deloitte Insights

Deloitte's 2026 global semiconductor industry outlook seeks to identify the strategic issues and opportunities for semiconductor companies and other parts of the semiconductor supply chain to

52 Top Photonics Companies · July 2026 | F6S

Detailed info and reviews on 52 top Photonics companies and startups in 2026. Get the latest updates on their products, jobs, funding, investors, founders and more.

Ansys | Engineering Simulation Software

Ansys engineering simulation and 3D design software delivers product modeling solutions with unmatched scalability and a comprehensive multiphysics foundation.

eeNews Embedded ...

eeNews Embedded - embedded electronics, design news Michael Chapman, President, CEO, and Co-founder of Cortus, has worked in processor design since the early days of modern

Instagram

Goldman estimates this segment could represent \$106B of the total opportunity. The shift is also structural. Copper is becoming less efficient as bandwidth requirements rise. Silicon photonics

Top 100 Silicon Photonics Companies in 2026 | ensun

Elenion is at the forefront of silicon photonics technology, utilizing a proprietary manufacturing process in a major CMOS foundry to create highly integrated photonic devices.

10 companies in the optical transceiver industry chain 2024

Eoptolink provides customers with customized product services and comprehensive solutions. Eoptolink fully deploys silicon photonics and 800G optical modules, and actively expands

What is Silicon Photonics? : Hitachi High-Tech Corporation

What is Silicon Photonics? Silicon photonics is a technology for fabricating optical and electronic integrated circuit on silicon microchip. Since the 2000s, research and development has

Silicon Photonics Companies

Intel Corporation (US) Intel is the global semiconductor innovation leader with deep core strengths in leading-edge chip manufacturing, integrated circuit design, and high-performance computing. Intel

Intel® Silicon Photonics

What Is Silicon Photonics? Silicon Photonics is a combination of two of the most important inventions of the 20th century—the silicon integrated circuit and the semiconductor laser. It enables faster data

Photonic Integrated Circuits: Research Advances and Challenges in ...

Silicon photonics, serving as a cornerstone technology in modern information technology, demonstrates significant application potential in critical scenarios such as high-speed data center

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,

Home | Hamamatsu Photonics

The official website of Hamamatsu Corporation whose mission is to advance science and industry through photonic technologies. Our products include optical sensors and components, cameras, light

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

Beyond Chips: Unveiling the Future of the Global Silicon Photonics ...

The fabrication of an optical engine is achieved through a series of crucial and precisely controlled manufacturing processes. SOI Wafer Supply (Photonic SOI Substrates) Scope: Supply of

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