

Companies with breakthroughs in silicon photonics technology



Article Overview

Intel, Analog Photonics, DustPhotonics, Eyeo, and OpenLight Photonics are among the leading companies driving breakthroughs in silicon photonics for data centers, AI, and optical communications.

Leading Companies and Innovations

Intel has been a pioneer in silicon photonics, integrating optical components with silicon chips to enable high-speed data transmission, particularly for 5G networks and data center interconnects. Their technology combines the manufacturing scale of silicon with the speed of light, allowing for advanced connectivity solutions and co-packaged optical transceivers. Analog Photonics focuses on developing photonic circuits and disruptive technologies, including fully operational solid-state LiDAR prototypes. Their innovations enhance connectivity and autonomy across automotive, industrial, and medical markets, leveraging silicon photonics for high-speed optical communication. DustPhotonics provides an end-to-end technology platform for silicon photonics, offering high-speed modulators and detectors across various wavelengths and data rates. Their solutions enable scalable, high-volume manufacturing while reducing power consumption and costs, making them suitable for hyper-growth data-centric industries. Eyeo has developed integrated photonics sensors and color splitter technology that efficiently directs different wavelengths to sensor pixels, improving performance and reducing size. Their work demonstrates the application of silicon photonics in AI and high-speed data center environments. OpenLight Photonics focuses on process design kits that streamline the developme...

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Top Photonic Quantum Computing Companies in 2026

A global group of companies including PsiQuantum, Xanadu, and Quandela are advancing distinct photonic

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Silicon Photonics Companies

Explore list of the top Silicon Photonics companies based on extensive research conducted by Mordor Intelligence analysts and

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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

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Global Silicon Photonics and Photonic Integrated Circuits Market

Silicon photonics and photonic integrated circuits (PICs) represent a transformative technology at the intersection of

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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,

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Silicon Photonics Market Size, Trends & Forecast, 2026-2033

Companies actively drive adoption through advances in photonic integration, industry investments, and technological

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GlobalFoundries Acquires Advanced Micro Foundry, Accelerating Silicon ...

About Advanced Micro Foundry Advanced Micro Foundry (AMF) Singapore is the world's first specialty Silicon

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Integrated Photonics | Transitioning to End-to-End Optical I/O

Intel Advances Progress in Integrated Photonics for Data Centers Intel Labs highlights industry-leading technological advances

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Silicon Photonics Companies

The dominant strategies in the silicon photonics industry are vertical specialization and integration. Intel and Cisco are pursuing

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Breakthrough in Silicon Photonics Technology in ...

Silicon photonics has been an area of active research and development. Researchers have been working on

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Silicon photonics technology | GlobalFoundries

Our silicon photonics process technologies enable today's pluggables and are ready for the ongoing transition of co-packaged optics

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Who are the leading photonic chip manufacturers?

Explore top photonic chip manufacturers including Intel, Broadcom, and emerging companies driving optical technology

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Roadmapping the next generation of silicon photonics

We chart the generational trends in silicon photonics technology, drawing parallels from the generational definitions of

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A New Era in Data Center Networking with NVIDIA Silicon Photonics

NVIDIA is integrating silicon photonics directly with its NVIDIA Quantum and NVIDIA Spectrum switch ICs to improve

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The company focuses on integrated photonics development, specifically highlighting its work in silicon photonics and silicon nitride

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China claims silicon photonics breakthrough to overcome chip hurdle

A Wuhan lab claims a major silicon photonics breakthrough, potentially overcoming limitations in traditional chip-design

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Silicon Photonics and Photonic Integrated Circuits 2025-2035 ...

This report categorizes the photonic integrated circuit industry, including silicon photonics. It outlines key market players, emerging

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Credo Technology Group Holding Ltd

Acquisition will bring industry-leading Silicon Photonics PIC technology in-house, expanding Credo's addressable

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Analog Photonics specializes in developing photonic circuits and disruptive technologies, particularly in silicon photonics. Their focus

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Industry insight: photonics to scale AI data centers

This paper explores the adoption of photonic technologies, including co-packaged optics (CPO), optical circuit

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Silicon Photonics Market Size to Hit USD 28.75 Billion by 2034

The global silicon photonics market size is valued at USD 2.86 billion in 2025 and is predicted to hit around USD

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Photonic Integrated Circuits (PICs): transforming industries from data ...

This snapshot comes from a significant collection of detailed photonic analyses proposed by Yole Group and its team.

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52 Photonic Computing Companies in 2026 | Compute Compass

52 companies building photonic computing. Light-based processors using photons instead of electrons for ultra-fast, energy-efficient

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Top 6 Silicon Photonics Companies Worldwide 2026

The top 6 silicon photonics companies in 2026, including Cisco Systems, Intel, IBM, NeoPhotonics, Hamamatsu

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Key takeaway Analog Photonics specializes in the development of photonic circuits, including innovative LiDAR and Optical

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