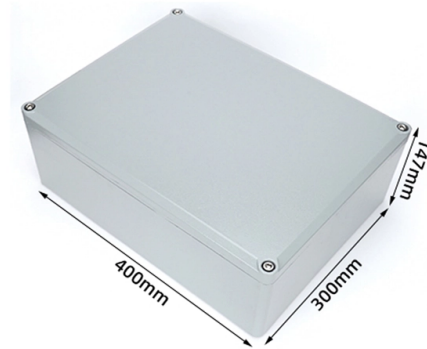


Which silicon photonics technology companies



Overview

Silicon photonics (SiPho) technology leverages silicon-based materials to develop photonic circuits, which use light to transmit data.

Key Takeaways

Top silicon photonics companies include Intel, Cisco, IBM, Lumentum, Marvell, GlobalFoundries, MACOM, Coherent, and emerging innovators like Analog Photonics, DustPhotonics, SCINTIL Photonics, and Sicoya. Major Global Players

- Intel Corporation: Integrates silicon with photonics for high-speed data movement, 5G networks, and data center interconnects, leveraging large-scale manufacturing capabilities .
- Cisco Systems Inc.: Develops optical interconnects and networking solutions incorporating silicon photonics for enhanced data transfer .
- IBM Corporation: Focuses on hybrid photonic-electronic chips and high-performance computing applications .
- Lumentum: Provides laser components and optical solutions for AI and data center interconnects, recently receiving significant investment from NVIDIA for scaling silicon photonics .
- Marvell Technology: Offers high-speed optical interconnects and silicon photonics solutions for cloud and telecom infrastructure .

- GlobalFoundries: Provides semiconductor fabrication platforms essential for silicon photonics innovation .
- MACOM: Supplies photonic components and integrated circuits for optical communications .
- Coherent: Specializes in laser and optical technologies supporting silicon photonics applications .

Emerging and Specialized Companies

- Analog Photonics: Develops photonic circuits for LiDAR and optical communications, emphasizing disruptive silicon photonics technologies .
- DustPhotonics: Offers end-to-end silicon photonics platforms, including high-speed modulators and detectors for scalable manufacturing .
- SCINTIL Photonics: Produces integrated circuits combining lasers and optical amplifiers for data centers, HPC, and 5G infrastructure .
- Sicoya: Focuses on monolithic integration of electronic and photonic components to address complex optical I/O challenges .
- Elenion Technologies: Utilizes proprietary CMOS foundry processes to create highly integrated photonic devices .
- OpenLight: Develops custom photonic ASICs to reduce costs and enhance performance by integrating laser technology directly onto chips .
- SMART Photonics and VLC Photonics: European firms advancing photonic chip technology for optical communications and sensing applications .

Summary

These companies collectively drive innovation in high-speed optical interconnects, data center efficiency, AI infrastructure, and telecommunications. The market is rapidly expanding, with a strong focus on co-packaged optics, integrated photonic circuits, and scalable manufacturing to meet the growing demand for energy-efficient, high-bandwidth data transmission .

Article Content

Top 100 Photonic Chip Companies in 2026 | ensun

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

Silicon photonics

Silicon photonics (SiPho) technology leverages silicon-based materials to develop photonic circuits, which use light to transmit data.

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

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://coetzerinvestments.co.za>

Technical inquiry: <https://coetzerinvestments.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

