

What are the companies that integrate silicon-based optoelectronic chips like



Overview

The dominant strategies in the silicon photonics industry are vertical specialization and integration. Intel and Cisco are pursuing integration, focusing on merging electronic and photonic components onto the same chip to enhance performance and scalability. *Disclaimer: List of key companies in no particular order Competitive Landscape of Silicon Photonics. The study and implementation of photonic systems that use silicon as an optical medium is known as silicon photonics. (US), Intel Corporation (US), MACOM (US), GlobalFoundries Inc. (US), Lumentum Operations LLC (US), Marvell (US), Coherent Corporation (US), IBM (US), STMicroelectronics (US), Rockley Photonics Holdings Limited (US) among. Mordor Intelligence expert advisors identify the Top 5 Silicon Photonics companies and the other top companies based on 2024 market position. Get access to the business profiles of top 24 Silicon Photonics companies, providing in-depth details on their company overview, key products and services. The optoelectronics market offers future opportunities in next-gen displays, autonomous vehicles, 5G communication, quantum computing, biomedical imaging, and renewable energy, driven by increasing demand for high-speed, energy-efficient, and compact optical technologies.



Article Content

Optics Transceiver Module Market 2025

Several leading suppliers have announced silicon photonics-based products that integrate multiple optical functions on a single chip, potentially revolutionizing transceiver miniaturization and

Top 10 companies in Silicon Photonics Market in 2023

Rise in adoption of 2.5D integrated onboard silicon photonics by data centers and rising demand for high bandwidth, high data transfer, and

QSFP-DD Optical Transceiver Market: Growth Drivers & Forecasts?

II-VI Incorporated: Now operating as Coherent Corp., this company is a major player in optoelectronic components and subsystems, offering advanced QSFP-DD transceivers that integrate

Silicon Photonics Companies | Market Research Future

Silicon photonics companies work on the integration of optical components into silicon chips. This technology has applications in data centers, telecommunications, and high-speed data

Silicon-based optoelectronics: progress towards large

PDF | On Dec 1, 2022, Dingshan Gao and others published Silicon-based optoelectronics: progress towards large scale optoelectronic integration and

World's Top 50 Companies in Optoelectronics in 2025 Watch List ...

The report provides an in-depth analysis of the leading companies operating in the global optoelectronics market. It includes a comparative assessment based on their product portfolios,

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

In the future, companies that can integrate EIC design, packaging, and testing with PICs will become key platform players in the era of optoelectronic heterogeneous integration.

Silicon Photonics Market Companies

This Analysis is based on comprehensive primary and secondary research on the corporate strategies, financial and operational performance, product portfolio, market share and brand analysis of all the

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.

Top Opto-Semiconductor Manufacturers : Market Share Report

Compare the world's leading opto-semiconductor companies. Our analysis covers market share, CAGR (11.4%), and vendor evaluations for Broadcom, Onsemi, and more.

Silicon-based optoelectronics: progress towards large

Silicon-based optoelectronics has become the key technology to break through these bottlenecks. Thanks to the advantages of high refractive

Silicon Photonics Companies

Get access to the business profiles of top 24 Silicon Photonics companies, providing in-depth details on their company overview, key products and services, financials, recent developments and strategic

Top 10 Leading Optoelectronics Companies to Watch Through 2030:

Discover the key players driving global innovation in the optoelectronics market—including their unique strengths, technologies, and future strategies.

Semiconductor Stocks on U.S. Exchanges — Full List | InvestSnips

Complete List of Semiconductor Companies Listed on U.S. Exchanges A comprehensive directory of publicly traded semiconductor stocks, equipment manufacturers, and service providers categorized

Overview of 11 Photonic Quantum Computing

Insider Brief Photonic quantum computing uses photons instead of matter-based qubits, offering room-temperature operation, fiber-network

Chip Price Hikes 2026: Foundry, OSAT & Memory Costs All Rising

Chip costs are rising across the board in 2026. 2nm wafers hit ~\$30K, analog ICs up 10–30%, OSAT packaging surcharges up to 20%. Model your exposure before it hits margins.

Optoelectronics Market Size, Demand Forecast 2025 -

The Optoelectronics Market is expected to reach USD 45.79 billion in 2025 and grow at a CAGR of 5.24% to reach USD 59.12 billion by 2030. SK

After DRAM, Investors Want a Photonics ETF

A new ETF targeting the photonics theme launched last week and has pulled in just \$3 million in assets. Here's why the design doesn't match what investors are asking for, and which

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.

What is a Semiconductor Wafer? | WaferPro

A semiconductor wafer is a thin slice of semiconductor substance, like crystalline silicon, used in electronics for the making of integrated circuits. In the

AI Chips Market Size, Share and Forecast, 2026-2033

AI Chips Market valuation is estimated to reach USD 107.01 Bn in 2026 and is anticipated to grow to USD 592.61 Bn by 2033 with steady CAGR of

SID 2025: Diverse Micro LED Applications

At SID 2025, companies like Tianma, BOE, Innolux, AUO, and TCL CSOT all presented their latest Micro LED automotive display solutions,

10 Best AI Edge Computing Companies in 2026

Leading companies in AI edge computing enable real-time data processing, faster decisions, improved security, and smarter connected systems.

Best Silicon Photonics Stocks 2026: Top 7 AI Picks

Discover the best silicon photonics stocks 2026 powering NVIDIA's AI boom. Compare top picks, CPO leaders & breakout plays before Wall Street catches on.

Silicon Photonics Companies

The dominant strategies in the silicon photonics industry are vertical specialization and integration. Intel and Cisco are pursuing integration, focusing on merging electronic and photonic components onto

AI Chip Packaging Bottleneck: TSMC Crisis 2026

The companies that solve the packaging problem first will define the next wave of AI hardware leadership. Introduction: The Bottleneck Nobody Saw Coming When most people think about AI chip

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