

Global Si Photonics Transceivers Market Growth 2025-2031

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Abstracts

The global Si Photonics Transceivers market size is predicted to grow from US\$ 3277 million in 2025 to US\$ 13090 million in 2031; it is expected to grow at a CAGR of 26.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The Si Photonics Transceiver also called Silicon Photonics Module, is based on silicon photonics integration technology and uses industry-leading chips. It changes the layout of traditional discrete devices and greatly simplifies the design and manufacture of optical modules, which are mainly used in data center networks to increase the bandwidth from 100G to 800G. Silicon photonics technology will eventually move towards photoelectric integration (OEIC: Opto-Electric Integrated Circuits), making the current split photoelectric conversion (optical module) into a local photoelectric conversion in photoelectric integration, and further promoting the integration of the system.

Global top 3 companies of Si Photonics Transceivers, including Intel, cisco systems and InPhi, are the leaders of the industry and took up about 97% of the global market. North America holds the major share in the market, with a share of 97%. On the basis of product type, 100G Si Photonics Transceivers represent the largest share of the worldwide Si Photonics Transceivers market, with 87% share. In the applications, data center segment is estimated to be the largest end-use industry segment of the market, with 82% share of global market.

The trends and driving forces of Si Photonics Transceivers are primarily focused on the following aspects:

- 1. Growth in AI Computing Power Demand:** The demand for computing power from the development of artificial intelligence is driving the advancement of optical module technology. Si Photonics Transceivers, with their high-speed and low-power characteristics, have become a key technology to meet this demand.
- 2. Advancements in Silicon Photonics Technology:** Silicon photonics technology uses silicon and silicon-based substrates, manufacturing photonic and optoelectronic devices through complementary metal-oxide-semiconductor (CMOS)-compatible integrated circuit processes. This technology offers advantages such as high integration, high speed, and low cost, making it applicable in various fields like optical communication, optical interconnection, and optical computing.
- 3. Technological Development Trends:** The development of silicon photonics technology can be divided into several stages, starting from the initial manufacturing of optical communication base devices using silicon-based materials to the gradual development of integration technology, and ultimately achieving the fusion of optoelectronics. Currently, silicon photonics technology is transitioning from hybrid integration to monolithic integration, achieving diverse combinations and partial integration of devices.
- 4. Market Application Growth:** Si Photonics Transceivers are widely used in data centers, optical communication, and other fields. Data from market research institutions indicates that the value of the silicon photonics chip market is expected to significantly increase in the coming years.
- 5. Technical Challenges:** The development of silicon photonics technology also faces challenges such as performance issues of silicon photonic devices, complex testing procedures, and a lack of standardization solutions. However, with continuous technological progress, these challenges are being gradually overcome.

In summary, the growth in demand for AI computing power is the main driving force behind the development of Si Photonics Transceivers, while advancements in silicon photonics technology and the expansion of the market are key factors in their development trends.

LP Information, Inc. (LPI) ' newest research report, the "Si Photonics Transceivers Industry Forecast" looks at past sales and reviews total world Si Photonics

Transceivers sales in 2024, providing a comprehensive analysis by region and market sector of projected Si Photonics Transceivers sales for 2025 through 2031. With Si Photonics Transceivers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Si Photonics Transceivers industry.

This Insight Report provides a comprehensive analysis of the global Si Photonics Transceivers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Si Photonics Transceivers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Si Photonics Transceivers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Si Photonics Transceivers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Si Photonics Transceivers.

This report presents a comprehensive overview, market shares, and growth opportunities of Si Photonics Transceivers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

100G Silicon Photonic Transceiver

200G/400G Silicon Photonic Transceiver

Others

Segmentation by Application:

Datacenter Transceivers

Long Haul Transceivers

Optical Interconnects

Automotive LiDAR

Immunoassay Tests

Fiber-optic Gyroscope

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Intel

Cisco Systems

InPhi (Marvell)

Finisar (II-VI Incorporated)

Juniper

Rockley Photonics

FUJITSU

Broadex Technologies

Hengtong Rockley Technologies

Accelink Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Si Photonics Transceivers market?

What factors are driving Si Photonics Transceivers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Si Photonics Transceivers market opportunities vary by end market size?

How does Si Photonics Transceivers break out by Type, by Application?

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