

# Global Silicon Photonic Market 2024 by Company, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GE80048A07B5EN.html>

Date: January 2024

Pages: 90

Price: US\$ 3,480.00 (Single User License)

ID: GE80048A07B5EN

## Abstracts

According to our (Global Info Research) latest study, the global Silicon Photonic market size was valued at USD 1830.5 million in 2023 and is forecast to a readjusted size of USD 6884.7 million by 2030 with a CAGR of 20.8% during review period.

Silicon Photonic technology is a low-cost, high-speed optical communication technology based on silicon photonics. It uses CMOS microelectronics technology based on silicon materials to realize the integrated preparation of photonic devices. This technology combines the ultra-large-scale logic and ultra-high precision of CMOS technology. The characteristics of manufacturing and the advantages of ultra-high speed and ultra-low power consumption of photonic technology. Silicon photonics technology shrinks and integrates a large number of optical and electrical components that were originally separate devices into an independent microchip, achieving high integration, low cost, and high-speed optical transmission.

Global key players of silicon photonic include Intel, Cisco, Lumentum, MACOM, Marvell, etc. The top five players hold a share over 80%. North America is the largest market, has a share about 26%, followed by Europe, and Asia-Pacific, with share 20% and 17%, separately. In terms of product type, Transceiver is the largest segment, occupied for a share of about 87%, and in terms of application, Datacom has a share about 80 percent.

The Global Info Research report includes an overview of the development of the Silicon Photonic industry chain, the market status of Datacom (Transceiver, Circuits), Telecom (Transceiver, Circuits), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Photonic.

Regionally, the report analyzes the Silicon Photonic markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Silicon Photonic market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Silicon Photonic market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Silicon Photonic industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Transceiver, Circuits).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Silicon Photonic market.

**Regional Analysis:** The report involves examining the Silicon Photonic market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Silicon Photonic market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon Photonic:

**Company Analysis:** Report covers individual Silicon Photonic players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Silicon Photonic. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Datacom, Telecom).

**Technology Analysis:** Report covers specific technologies relevant to Silicon Photonic. It assesses the current state, advancements, and potential future developments in Silicon Photonic areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Silicon Photonic market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Silicon Photonic market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

### Market segment by Type

Transceiver

Circuits

Others

### Market segment by Application

Datacom

Telecom

Others

Market segment by players, this report covers

Intel

Cisco

Marvell

Lumentum (NeoPhotonics)

Nokia

SiFotonics

MACOM

Accelink Technologies

Coherent(II-VI)

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Silicon Photonic product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Silicon Photonic, with revenue, gross margin and global market share of Silicon Photonic from 2019 to 2024.

Chapter 3, the Silicon Photonic competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Silicon Photonic market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Silicon Photonic.

Chapter 13, to describe Silicon Photonic research findings and conclusion.

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