

# Silicon Photonics Market Size to be Worth USD 4.62 Billion Growing at 22.7% CAGR till 2027

*The rising demand for high bandwidth, high data transfer, and government initiative to move towards e-banking are driving the market growth.*

VANCOUVER, BC, CANADA, August 5, 2022 /EINPresswire.com/ -- The global [Silicon Photonics Market](#) is expected to reach USD 4.62 Billion by 2027, according to a new report by Emergen Research. The rapid growth in the usage of smartphones and internet

services has led to the increased use of silicon photonics transceivers for telecommunications applications and is anticipated to fuel demand in the market for silicon photonics. The government's influence on the population to shift towards e-banking and internet-based money banking is also expected to drive the silicon photonics market. Besides, characteristics such as

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Market Size – USD 980 million in 2019, Market Growth - CAGR of 22.7%, Market Trends – Rise in adoption of 2.5D integrated onboard silicon photonics by data centers.

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*Emergen Research*

low environmental impact, high interconnectivity capacity, low operating costs, low failure rate, and spectral performance are expected to propel the silicon photonics market demand. The introduction of 5G technology and growing demand for bandwidth will provide an option for corporations to expand their R&D initiatives in the photonics sector. In 5G connectivity, this modern system will help to channel a large volume of data traffic at a low cost and to transform the radio access network efficiently.

The report on global Silicon Photonics market is intended to offer business owners, stakeholders and field marketing

executives a broad overview of the business they should be focussing on for the estimated period. The research further holds vital information on the size of market and data on the prominent leaders' product owners have to compete with, in the coming years. Assessments of



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the broad strengths, as well as weaknesses too, add value to the overall research. Products details not only cover the popular applications and its performance, but it also unveils certain trends and value of specific products within specific regions. Industry experts conducting the study further estimate the potential of the Silicon Photonics industry. Such information is important for firms looking to launch an innovative service or product on the market. Industry experts have measured the total volume of the given market. Researchers have calculated the industry in terms of sales by the competitors and end-user – customers.

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The report offers a comprehensive overview of the competitive landscape and covers company profiles, production and manufacturing capacity, product portfolio, expansion strategies, and business initiatives such as mergers and acquisitions, joint ventures, collaborations, partnerships, and product launches and brand promotions among others. It also offers key insights into financial standing, market reach, global position, gross profit margins, and investment and funding initiatives.

Major Players/Manufacturers profiled in the report are:

IBM Corporation, Cisco Systems Inc., AIO Core Co. Ltd, Intel Corporation, Infinera Corporation, Mellanox Technologies Ltd, IPG Photonics Corporation, NKT Photonics, STMicroelectronics NV, and Hamamatsu Photonics K.K. among others.

Some Key Highlights from the Report

The Optical Cable segment is expected to dominate the market due to the capability of transmitting high data rates in the long-range. The transceivers segment is anticipated to experience steady growth due to its high integration capability, which allows high-speed data transmission, as well as the capability to consume low power.

The laser segment is expected to dominate the market with a significant share of 33.7% over the forecast timeframe due to the increasing development of tunable lasers and hybrid silicon. The waveguide segment is projected to grow substantially owing to the wise use of this component in the telecommunication sector.

The telecommunication industry is anticipated to witness the highest market growth rate throughout the forecast period due to the implementation of 5G technologies to deliver higher bandwidth and high-speed data transfer. As a result of developments in remote diagnostics and remote surgery in the medical and healthcare industries, the demand for silicon photonics is expected to expand in the healthcare industry.

North America has the largest market for multiplexer wavelength filters, and silicon optical modulators, become a lucrative destination for businesses to start the silicon photonics market

due to government encouragement. The Asia-Pacific is expected to grow significantly due to an increasing population, growth in urbanization, and rising demand for data transmission.

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Emergen Research has segmented the global Silicon Photonics Market on the basis of product, component, end-use, and region:

Product Outlook (Revenue, USD Billion; 2017-2027)

Sensors

Switches

Transceivers

Optical Attenuators

Optical Cable

Component Outlook (Revenue, USD Billion; 2017-2027)

Photodetector

Modulator

Laser

Waveguides

Filter

End-Use Outlook (Revenue, USD Billion; 2017-2027)

Consumer Electronics

Healthcare

Telecommunication & IT

Defense

Others

Regional Segmentation;

North America (U.S., Canada)

Europe (U.K., Italy, Germany, France, Rest of EU)

Asia Pacific (India, Japan, China, South Korea, Australia, Rest of APAC)

Latin America (Chile, Brazil, Argentina, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

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The report further sheds light on the strength, weaknesses, opportunities, and threats faced by the companies in the global Silicon Photonics market and additionally measures the feasibility and investment return analysis in the report. Furthermore, the report is furnished with the latest impact of the COVID-19 pandemic on the market and covers the initial and future assessment of the COVID-19 impact on the market. The report is a qualitative and quantitative assessment of the global Silicon Photonics market that has been formulated by extensive primary and secondary research with the data further validated from industry experts and professionals.

Key Benefits of the Report:

Analytical data with detailed SWOT analysis and Porter's Five Forces analysis

In-depth 8 year analysis of the Global Silicon Photonics Market

Critical assessment of the key market segments

Comprehensive analysis of the drivers, restraints, trends, and opportunities

Detailed regional analysis and extensive company profiling

Extensive assessment of current and emerging trends of the market

Comprehensive analysis of the competitive scenario and its changing dynamics

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