

Silicon Photonics Market - Forecasts from 2018 to 2023

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Abstracts

Silicon photonics market is projected to witness a compound annual growth rate of 17.02% during the forecast period to reach a total market size of US\$511.851 million by 2023, increasing from US\$199.363 million in 2017. Silicon photonics are photonic circuits combined with semiconductor laser which is used to transfer data at a high speed over longer distances as compared to conventional electronics.

Growing focus on miniaturization of electronics and electrical components is one of the major drivers of global silicon photonics market. Silicon photonics enhances the speed of data transfer by improving the performance in terms of computation, communication, and measurement. As a result, manufacturers are replacing conventional copper cabling with silicon photonics, thus, propelling the overall market growth. Growing bandwidth across multiple markets, including data centers and telecom, will bolster the growth of silicon photonics market in the coming years.

Research Methodology

The report provides a brief introduction of the market and deals with detailed research methodology for calculating market size and forecasts, secondary data sources used and the primary inputs which were taken for data validation. This section also outlines various segments which have been covered as part of the report.

Market Dynamics

This section provides comprehensive market dynamics through an overview section along with growth drivers, challenges and opportunities which exist in the current market. This section of the report also provides key industry, global and regional

regulations which are determining the market growth and a brief technological aspect of Silicon Photonics. Complete industry analysis has also been covered through Porter's five forces model as a part of this report section.

Segmentation

Segments covered under the Silicon Photonics market report are as below:

By Product

- Silicon Photo Detectors
- Silicon Optical Modulators
- Silicon Photonic Waveguides
- Wavelength Division Multiplexer Filters
- Others

By End-user industry:

- Electrical and Electronics
- Aerospace and Defense
- Communication and Technology
- Others

By Geography:

- Americas
 - North America
 - South America
- Europe Middle East and Africa
 - Europe
- MEA
- Asia Pacific

Market Players

Key industry players profiled as part of the report are Intel Corporation, Kaia Corporation, Mellanox Technologies, Adva Optical Networking, and IBM.

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