

Global Silicon Photonics Market 2023-2029

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Abstracts

The global silicon photonics market is projected to rise by USD 5.3 billion by 2029, according to the latest market study results. It is anticipated to expand at a CAGR of 26.4 percent during the forecast period.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global silicon photonics market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the component, product, application, and region. The global market for silicon photonics can be segmented by component: lasers, optical modulators, optical switches, optical waveguides, photodetectors. The optical waveguides segment is estimated to account for the largest share of the global silicon photonics market. Silicon photonics market is further segmented by product: attenuators, multiplexers, optical cables, optical transceivers, RF circuit, others. The optical transceivers segment held the largest revenue share in 2022. Based on application, the silicon photonics market is segmented into: consumer electronics, data communication, defense and security, healthcare, IT and telecommunication, others. Globally, the data communication segment made up the largest share of the silicon photonics market. On the basis of region, the silicon photonics market also can be divided into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. North America was the largest contributor to the global silicon photonics market in 2022.

Market Segmentation

By component: lasers, optical modulators, optical switches, optical waveguides, photodetectors

By product: attenuators, multiplexers, optical cables, optical transceivers, RF circuit, others

By application: consumer electronics, data communication, defense and security, healthcare, IT and telecommunication, others

By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report has also analysed the competitive landscape of the global silicon photonics market with some of the key players being Broadcom Inc., Ciena Corporation, Cisco Systems Inc. (Acacia Communications, Inc.), Coherent Corp., Finisar Corporation, Global Foundries Inc., Hamamatsu Photonics K.K., Huawei Technologies Co., Ltd., IBM Corporation, Infinera Corporation, Intel Corporation, Juniper Networks Inc., MACOM Technology Solutions Holdings, Inc., Mellanox Technologies Ltd. (Nvidia Corporation), Molex LLC, NeoPhotonics Corporation, STMicroelectronics N.V., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

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Scope of the Report

To analyze and forecast the market size of the global silicon photonics market.

To classify and forecast the global silicon photonics market based on component, product, application, region.

To identify drivers and challenges for the global silicon photonics market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global silicon photonics market.

To identify and analyze the profile of leading players operating in the global

silicon photonics market.

Why Choose This Report

Gain a reliable outlook of the global silicon photonics market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

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Photodetectors

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RF circuit
Others

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Consumer electronics
Data communication
Defense and security
Healthcare
IT and telecommunication
Others

PART 8. MARKET BREAKDOWN BY REGION

North America
Europe
Asia-Pacific
MEA (Middle East and Africa)
Latin America

PART 9. KEY COMPANIES

Broadcom Inc.
Ciena Corporation
Cisco Systems Inc. (Acacia Communications, Inc.)
Coherent Corp.
Finisar Corporation
Global Foundries Inc.
Hamamatsu Photonics K.K.
Huawei Technologies Co., Ltd.
IBM Corporation
Infinera Corporation
Intel Corporation
Juniper Networks Inc.
MACOM Technology Solutions Holdings, Inc.
Mellanox Technologies Ltd. (Nvidia Corporation)
Molex LLC
NeoPhotonics Corporation
STMicroelectronics N.V.

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