

Global Silicon Photonic Device Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Silicon Photonic Device market size is expected to reach \$ 6885.3 million by 2029, rising at a market growth of 22.2% CAGR during the forecast period (2023-2029).

Improvement in data center cloud computing performance, increase in data traffic, decrease in bandwidth, and continuous specification across the silicon photonics device end-use industry are the key factors driving the increase in silicon photonics device market revenue.

Silicon Photonic device mainly includes optical active and passive devices made of silicon semiconductor materials, including silicon-based lasers (responsible for converting electrical signals into optical signals), silicon-based photodetectors (responsible for converting optical signals into electrical signals), silicon Basic optical modulator (responsible for increasing the bandwidth of optical signals), planar waveguide (responsible for optical signal transmission on silicon-based materials), grating coupler (responsible for aligning with externally connected optical fibers to reduce insertion loss), etc.

This report studies the global Silicon Photonic Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Photonic Device, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon Photonic Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Photonic Device total production and demand, 2018-2029, (K Units)

Global Silicon Photonic Device total production value, 2018-2029, (USD Million)

Global Silicon Photonic Device production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Silicon Photonic Device consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Silicon Photonic Device domestic production, consumption, key domestic manufacturers and share

Global Silicon Photonic Device production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Silicon Photonic Device production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Silicon Photonic Device production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global Silicon Photonic Device market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cisco Systems, Intel, IBM, STMicroelectronics, Broadcom, Acacia, Finisar, Infinera and Luxtera, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicon Photonic Device market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Silicon Photonic Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Photonic Device Market, Segmentation by Type

Active

Passive

Global Silicon Photonic Device Market, Segmentation by Application

Telecommunications

Medical

Defense

Consumer Electronics

Others

Companies Profiled:

Cisco Systems

Intel

IBM

STMicroelectronics

Broadcom

Acacia

Finisar

Infinera

Luxtera

Hamamatsu

Juniper

Rockley Photonics

Reflex Photonics

Huawei

Wuhan Research Institute of Posts and Telecommunications

Hisense Broadband Multimedia Technologies

Shandong Yunhai Guochuang

Key Questions Answered

1. How big is the global Silicon Photonic Device market?
2. What is the demand of the global Silicon Photonic Device market?
3. What is the year over year growth of the global Silicon Photonic Device market?
4. What is the production and production value of the global Silicon Photonic Device market?
5. Who are the key producers in the global Silicon Photonic Device market?
6. What are the growth factors driving the market demand?

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