

Global Semiconductor Photonic Integrated Circuit Supply, Demand and Key Producers, 2023-2029

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Abstracts

Semiconductor Photonic Integrated Circuit is a microchip that contains two or more photonic elements that form a functional circuit. The technology detects, generates, transmits and processes light. Photonic integrated circuits make use of photons (or particles of light) rather than electrons, which electronic integrated circuits make use of. The main difference between the two is that photonic integrated circuits provide functionality for information signals applied at wavelengths in the visible spectrum or near-infrared (850-1650 nm) light. The most commercially available material platform for photonic integrated circuits is indium phosphide (InP), which allows the integration of various optical active and passive functions on the same chip. The original example of a photonic integrated circuit was a simple 2-part distributed Bragg reflector (DBR) laser, consisting of two independently controlled device sections - a gain section and a DBR reflector section.

This report studies the global Semiconductor Photonic Integrated Circuit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Photonic Integrated Circuit, 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 Semiconductor Photonic Integrated Circuit that contribute to its increasing demand across many markets.

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

Highlights and key features of the study

Global Semiconductor Photonic Integrated Circuit total production and demand, 2018-2029, (Units)

Global Semiconductor Photonic Integrated Circuit total production value, 2018-2029, (USD Million)

Global Semiconductor Photonic Integrated Circuit production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Semiconductor Photonic Integrated Circuit consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Semiconductor Photonic Integrated Circuit domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Photonic Integrated Circuit production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Semiconductor Photonic Integrated Circuit production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Semiconductor Photonic Integrated Circuit production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units)

This reports profiles key players in the global Semiconductor Photonic Integrated Circuit 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 Infinera Corporation, Intel Corporation, Agilent Technologies, AMF, Applied Nanotools, Cisco Systems, Inc., Avago Technologies, Bright Photonics BV and Ciena Corporation, 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 Semiconductor Photonic Integrated Circuit market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Semiconductor Photonic Integrated Circuit Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Photonic Integrated Circuit Market, Segmentation by Type

Silicon Carbide

Silicon Nitride

Global Semiconductor Photonic Integrated Circuit Market, Segmentation by Application

Data And Telecommunications

Healthcare And Medicine

Automotive And Engineering Applications

Agriculture And Food

Space And Defence Applications

Companies Profiled:

Infinera Corporation

Intel Corporation

Agilent Technologies

AMF

Applied Nanotools

Cisco Systems, Inc.

Avago Technologies

Bright Photonics BV

Ciena Corporation

II-VI Inc.

TE Connectivity

CMC Microsystems

Efficient Power Conversion Corp.

Emberion Oy

Finisar Corporation

GlobalFoundries

JDS Uniphase Corporation

Kaiam Corp

LIGENTEC SA

LioniX International

Luxtera Inc.

MACOM

Mellanox Technologies

Neophotonics Corporation

Oclaro, Inc.

SCINTIL Photonics

Smart Photonics

Viavi Solutions, Inc.

Tower Semiconductor

Huawei Technologies Co., Ltd.

Key Questions Answered

1. How big is the global Semiconductor Photonic Integrated Circuit market?
2. What is the demand of the global Semiconductor Photonic Integrated Circuit market?

3. What is the year over year growth of the global Semiconductor Photonic Integrated Circuit market?
4. What is the production and production value of the global Semiconductor Photonic Integrated Circuit market?
5. Who are the key producers in the global Semiconductor Photonic Integrated Circuit market?
6. What are the growth factors driving the market demand?

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