

# Global Semiconductor Photonic Integrated Circuit Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 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.

According to our (Global Info Research) latest study, the global Semiconductor Photonic Integrated Circuit market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

This report is a detailed and comprehensive analysis for global Semiconductor Photonic Integrated Circuit market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2023, are provided.

#### Key Features:

Global Semiconductor Photonic Integrated Circuit market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Semiconductor Photonic Integrated Circuit market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Semiconductor Photonic Integrated Circuit market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2018-2029

Global Semiconductor Photonic Integrated Circuit market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2018-2023

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Semiconductor Photonic Integrated Circuit

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report 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 and Applied Nanotools, etc.

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

## Market Segmentation

Semiconductor Photonic Integrated Circuit market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Silicon Carbide

Silicon Nitride

### Market segment by Application

Data And Telecommunications

Healthcare And Medicine

Automotive And Engineering Applications

Agriculture And Food

Space And Defence Applications

### Major players covered

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

LIGEN TEC 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.

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Semiconductor Photonic Integrated Circuit product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor Photonic Integrated Circuit, with price, sales, revenue and global market share of Semiconductor Photonic Integrated Circuit from 2018 to 2023.

Chapter 3, the Semiconductor Photonic Integrated Circuit competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semiconductor Photonic Integrated Circuit breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Semiconductor Photonic Integrated Circuit market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Semiconductor Photonic Integrated Circuit.

Chapter 14 and 15, to describe Semiconductor Photonic Integrated Circuit sales channel, distributors, customers, research findings and conclusion.

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