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Global Semiconductor Photonic Integrated Circuit Market Growth 2026-2032

https://marketpublishers.com/r/S03A3303F5C3EN.html
Date: April 2026
Pages: 167
Price: US$ 3,660.00 (Single User License)
ID: S03A3303F5C3EN

Abstracts

The global Semiconductor Photonic Integrated Circuit market size is predicted to grow from US$ million in 2025 to US$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

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.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US$142.1 billion, up 17.0%

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year-on-year, sales in Europe were US$53.8 billion, up 12.6% year-on-year, and sales in Japan were US$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US$336.2 billion, down 2.48% year-on-year.

LP Information, Inc. (LPI) ' newest research report, the ?Semiconductor Photonic Integrated Circuit Industry Forecast? looks at past sales and reviews total world Semiconductor Photonic Integrated Circuit sales in 2025, providing a comprehensive analysis by region and market sector of projected Semiconductor Photonic Integrated Circuit sales for 2026 through 2032. With Semiconductor Photonic Integrated Circuit sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Semiconductor Photonic Integrated Circuit industry.

This Insight Report provides a comprehensive analysis of the global Semiconductor Photonic Integrated Circuit landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Semiconductor Photonic Integrated Circuit portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Semiconductor Photonic Integrated Circuit market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Photonic Integrated Circuit and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Semiconductor Photonic Integrated Circuit.

This report presents a comprehensive overview, market shares, and growth opportunities of Semiconductor Photonic Integrated Circuit market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Silicon Carbide

Silicon Nitride

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Segmentation by Application:

- Data And Telecommunications
- Healthcare And Medicine
- Automotive And Engineering Applications
- Agriculture And Food
- Space And Defence Applications

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India

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Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Infinera Corporation

Intel Corporation

Agilent Technologies

AMF

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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

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Oclaro, Inc.

SCINTIL Photonics

Smart Photonics

Viavi Solutions, Inc.

Tower Semiconductor

Huawei Technologies Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Semiconductor Photonic Integrated Circuit market?

What factors are driving Semiconductor Photonic Integrated Circuit market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Semiconductor Photonic Integrated Circuit market opportunities vary by end market size?

How does Semiconductor Photonic Integrated Circuit break out by Type, by Application?

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