

Global Photonic Integrated Circuit (PIC) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GD530525FD23EN.html>

Date: June 2024

Pages: 153

Price: US\$ 3,480.00 (Single User License)

ID: GD530525FD23EN

Abstracts

According to our (Global Info Research) latest study, the global Photonic Integrated Circuit (PIC) market size was valued at USD 1275.2 million in 2023 and is forecast to a readjusted size of USD 1691.1 million by 2030 with a CAGR of 4.1% during review period.

A photonic integrated circuit (PIC) or integrated optical circuit is a device that integrates multiple (at least two) photonic functions and as such is similar to an electronic integrated circuit. The major difference between the two is that a photonic integrated circuit provides functions for information signals imposed on optical wavelengths typically in the visible spectrum or near infrared 850 nm-1650 nm.

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% 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 2.0% year-on-year.

The Global Info Research report includes an overview of the development of the

Photonic Integrated Circuit (PIC) industry chain, the market status of Optical Fiber Communication (Lithium Niobate, Silica on Silicon), Optical Fiber Sensors (Lithium Niobate, Silica on Silicon), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Photonic Integrated Circuit (PIC).

Regionally, the report analyzes the Photonic Integrated Circuit (PIC) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Photonic Integrated Circuit (PIC) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Photonic Integrated Circuit (PIC) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Photonic Integrated Circuit (PIC) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Lithium Niobate, Silica on Silicon).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Photonic Integrated Circuit (PIC) market.

Regional Analysis: The report involves examining the Photonic Integrated Circuit (PIC) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Photonic Integrated Circuit (PIC) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Photonic Integrated Circuit (PIC):

Company Analysis: Report covers individual Photonic Integrated Circuit (PIC) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Photonic Integrated Circuit (PIC). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Optical Fiber Communication, Optical Fiber Sensors).

Technology Analysis: Report covers specific technologies relevant to Photonic Integrated Circuit (PIC). It assesses the current state, advancements, and potential future developments in Photonic Integrated Circuit (PIC) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Photonic Integrated Circuit (PIC) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Photonic Integrated Circuit (PIC) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Lithium Niobate

Silica on Silicon

Silicon on Insulator

Indium Phosphide

Allium Arsenide

Market segment by Application

Optical Fiber Communication

Optical Fiber Sensors

Biomedical

Quantum Computing

Others

Major players covered

Infinera

MACOM

Mellanox Technologies

Luxtera

Lumentum

Kotura

NeoPhotonics

Finisar

DS Uniphase

Alcatel-Lucent

Avago Technologies

Lumerical

Aifotec

Ciena

Huawei Technologies

Intel

TE Connectivity

Agilent Technologies

OneChip Photonics

Emcore Co

Viavi Solutions Inc

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 Photonic Integrated Circuit (PIC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photonic Integrated Circuit (PIC), with price, sales, revenue and global market share of Photonic Integrated Circuit (PIC) from 2019 to 2024.

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

Chapter 4, the Photonic Integrated Circuit (PIC) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2023. and Photonic Integrated Circuit (PIC) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

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

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

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