

Global Photonic IC Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Photonic IC market size was valued at USD 1275.2 million in 2023 and is forecast to a readjusted size of USD 4595.1 million by 2030 with a CAGR of 20.1% 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.

The key brand include Infinera, Alcatel-Lucent, Avago, NeoPhotonics, HUAWEI, Cisco, Ciena, Intel, Oclaro, JDS Uniphase, Finisar, Luxtera, Mellanox and OneChip, etc, with about 93% market shares.

The Global Info Research report includes an overview of the development of the Photonic IC industry chain, the market status of Optical Communication (Monolithic Integration, Hybrid Integration), Sensing (Monolithic Integration, Hybrid Integration), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Photonic IC.

Regionally, the report analyzes the Photonic IC 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 IC market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Photonic IC 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 IC 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., Monolithic Integration, Hybrid Integration).

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 IC market.

Regional Analysis: The report involves examining the Photonic IC 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 IC 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 IC:

Company Analysis: Report covers individual Photonic IC 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 IC This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Optical Communication, Sensing).

Technology Analysis: Report covers specific technologies relevant to Photonic IC. It

assesses the current state, advancements, and potential future developments in Photonic IC areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Photonic IC 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 IC 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

- Monolithic Integration

- Hybrid Integration

- Module Integration

Market segment by Application

- Optical Communication

- Sensing

- Biophotonics

- Others

Major players covered

Infinera

Alcatel-Lucent

Avago

NeoPhotonics

HUAWEI

Cisco

Ciena

Intel

Oclaro

JDS Uniphase

Finisar

Luxtera

Mellanox

OneChip

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 IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photonic IC, with price, sales, revenue and global market share of Photonic IC from 2019 to 2024.

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

Chapter 4, the Photonic IC 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 IC 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 IC.

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

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