

# Global Photonic Neuromorphic Chip 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 Neuromorphic Chip market size was valued at USD 200.6 million in 2023 and is forecast to a readjusted size of USD 287.3 million by 2030 with a CAGR of 5.3% during review period.

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 Neuromorphic Chip industry chain, the market status of Aerospace & Defense (Signal Processing, Data Processing), IT & Telecom (Signal Processing, Data Processing), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Photonic Neuromorphic Chip.

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

#### Key Features:

The report presents comprehensive understanding of the Photonic Neuromorphic Chip 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 Neuromorphic Chip 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., Signal Processing, Data Processing).

**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 Neuromorphic Chip market.

**Regional Analysis:** The report involves examining the Photonic Neuromorphic Chip 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 Neuromorphic Chip 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 Neuromorphic Chip:

**Company Analysis:** Report covers individual Photonic Neuromorphic Chip 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 Neuromorphic Chip. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Aerospace & Defense, IT & Telecom).

**Technology Analysis:** Report covers specific technologies relevant to Photonic Neuromorphic Chip. It assesses the current state, advancements, and potential future developments in Photonic Neuromorphic Chip areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Photonic Neuromorphic Chip 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 Neuromorphic Chip 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

Signal Processing

Data Processing

Image Recognition

### Market segment by Application

Aerospace & Defense

IT & Telecom

Automotive

Medical

Industrial

Others

#### Major players covered

IBM Corp

Hewlett Packard Enterprise

Samsung Group

Intel Corp

General Vision

Applied Brain Research Inc

BrainChip Holdings

#### 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 Neuromorphic Chip product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Photonic Neuromorphic Chip 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 Neuromorphic Chip 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 Neuromorphic Chip.

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

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