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Global Neuromorphic Vision Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Neuromorphic Vision Chip market size was valued at US$ 72.03 million in 2025 and is forecast to a readjusted size of US$ 915 million by 2032 with a CAGR of 43.9% during review period.

Neuromorphic vision chips are integrated circuits based on brain-inspired architectures, focused on dynamic visual information perception and processing. Core products include event-driven chips, compute-in-sensor SoCs, and SNN accelerators, using spiking neural networks or event-driven mechanisms to achieve low-power, high-speed, and low-latency computation. Key technologies include microsecond-level event sampling, asynchronous parallel processing, and neural synapse mapping, enabling object recognition, dynamic scene analysis, and real-time tracking. They are primarily applied in robotics vision, autonomous driving, industrial inspection, and intelligent edge AI cameras. According to our research, the global market size for neuromorphic vision chips in 2025 is estimated at approximately $87 million, with core products priced between $50 and $2,000 per unit depending on functionality and integration level.

The neuromorphic vision chip industry centers on the chip itself as the core product, enabling efficient and low-latency dynamic visual information processing. Upstream supply includes semiconductor fabrication, wafer design, and event sensor technologies, while midstream focuses on chip design, packaging, and mass production. Downstream applications primarily include robotics vision, autonomous driving, industrial inspection, and intelligent edge AI cameras. Technological evolution shows event-driven chips, compute-in-sensor SoCs, and SNN accelerators forming a multi-tiered product matrix. Capital investment and R&D spending continue to grow, with government policies in certain regions supporting brain-inspired computing and edge AI

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chip innovation, steadily driving industry expansion.

Global supply exhibits regional distribution, with leading firms concentrated in North America and Europe, and Chinese manufacturers rapidly expanding in Asia. Small and innovative startups constitute the long tail of supply. Market competition intensifies, with active new product launches and mergers and acquisitions, as companies leverage technical differentiation and customized solutions to enhance competitiveness. Upstream and downstream interactions are tightly integrated, with capacity expansion and technology iteration accelerating market penetration, while growing downstream demand drives chip shipments and adoption in edge applications.

Future trends indicate significant growth potential, though technology substitution and standardization risks remain. Event-driven and SNN-based high-efficiency computing cores are expected to define core market competitiveness, with heterogeneous integration and compute-in-sensor designs becoming increasingly prominent. Autonomous driving, industrial inspection, robotics vision, and intelligent edge AI scenarios will continue to drive demand. Regional supply chains may diverge due to policy, capital, and technical capabilities, requiring companies to maintain forward-looking R&D, production, and market strategies to navigate emerging applications and global market dynamics.

This report is a detailed and comprehensive analysis for global Neuromorphic Vision Chip 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 2025, are provided.

Key Features:

Global Neuromorphic Vision Chip market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Neuromorphic Vision Chip market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Neuromorphic Vision Chip market size and forecasts, by Type and by

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Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Neuromorphic Vision Chip market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (US$/Unit), 2021-2026

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 Neuromorphic Vision Chip

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 Neuromorphic Vision Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intel Corporation, IBM Corporation, Prophesee, iniVation, SynSense, Innatera, GrAI Matter Labs, Rain AI, AlpsenTek, Xsense Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Neuromorphic Vision Chip market is split by Type and by Application. For the period 2021-2032, 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

Event-driven Chip

Compute-in-sensor SoC

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SNN Accelerator

Other

Market segment by Pixel Latency

Ultra-low Latency (%oO%1 ?s)

Low Latency (1-100 ?s)

Medium Latency (100-1000 ?s)

High Latency (>1 ms)

Market segment by Sensor Resolution

Low Resolution (%oO%0.1 MP)

Medium Resolution (0.1-1 MP)

High Resolution (>1 MP)

Market segment by Application

Robotics Vision

Autonomous Driving

Industrial Inspection

Edge AI Cameras

Other

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Major players covered

- Intel Corporation
- IBM Corporation
- Prophesee
- iniVation
- SynSense
- Innatera
- GrAI Matter Labs
- Rain AI
- AlpsenTek
- Xsense Technology
- DVSense

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)

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

Chapter 1, to describe Neuromorphic Vision Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Neuromorphic Vision Chip, with price, sales quantity, revenue, and global market share of Neuromorphic Vision Chip from 2021 to 2026.

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

Chapter 4, the Neuromorphic Vision Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026.and Neuromorphic Vision Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Neuromorphic Vision Chip.

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

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