

Global Neuromorphic Vision Chip Market Growth 2026-2032

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Abstracts

The global Neuromorphic Vision Chip market size is predicted to grow from US\$ 68.48 million in 2025 to US\$ 974 million in 2032; it is expected to grow at a CAGR of 46.7% from 2026 to 2032.

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 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.

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

This Insight Report provides a comprehensive analysis of the global Neuromorphic Vision Chip 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 Neuromorphic Vision Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Neuromorphic Vision Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Neuromorphic Vision Chip 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 Neuromorphic Vision Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Neuromorphic Vision Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Event-driven Chip

Compute-in-sensor SoC

SNN Accelerator

Other

Segmentation by Pixel Latency:

Ultra-low Latency (1 ms)

Segmentation by Sensor Resolution:

Low Resolution (1 MP)

Segmentation by Application:

Robotics Vision

Autonomous Driving

Industrial Inspection

Edge AI Cameras

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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.

Intel Corporation

IBM Corporation

Prophesee

iniVation

SynSense

Innatera

GrAI Matter Labs

Rain AI

AlpsenTek

Xsense Technology

DVSense

Key Questions Addressed in this Report

What is the 10-year outlook for the global Neuromorphic Vision Chip market?

What factors are driving Neuromorphic Vision Chip market growth, globally and by region?

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

How do Neuromorphic Vision Chip market opportunities vary by end market size?

How does Neuromorphic Vision Chip break out by Type, by Application?

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