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Global Neuromorphic Hardware Market Growth 2026-2032

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Abstracts

The global Neuromorphic Hardware market size is predicted to grow from US$ 3477 million in 2025 to US$ 8648 million in 2032; it is expected to grow at a CAGR of 14.2% from 2026 to 2032.

In 2024, global neuromorphic hardware shipments reached approximately 2.5 million units, with an average global market price of around US$1,200 per unit. The total industry-designed capacity was about 3 million units, and the average gross profit margin remained at around 40%.Neuromorphic hardware refers to computing systems designed to mimic the architecture and functioning of the human brain, using spiking neural networks (SNNs), event-driven processing, and specialized hardware like memristors and neurosynaptic chips. These systems enable highly efficient, low-power computation for AI, edge computing, robotics, and sensor processing.Upstream: Semiconductor wafer suppliers, specialized chip design IP providers, and advanced packaging companies.Midstream: Neuromorphic hardware manufacturers, custom silicon foundries, and hardware integration firms.Downstream: AI research labs, autonomous robotics companies, edge computing providers, and high-performance computing applications.

United States market for Neuromorphic Hardware is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Neuromorphic Hardware is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Neuromorphic Hardware is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Global key Neuromorphic Hardware players cover Intel (Loihi chip), IBM (TrueNorth), BrainChip Holdings (Akida chip), SynSense (aiCTX), Qualcomm (Zeroth platform), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

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

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

Market Segmentation

Segmentation by Type:

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<100 mW

0.1–1 W

1–10 W

>10 W

Segmentation by Application:

Automotive

Medical

Electronics and Semiconductors

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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- 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 (Loihi chip)
- IBM (TrueNorth)

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BrainChip Holdings (Akida chip)

SynSense (aiCTX)

Qualcomm (Zeroth platform)

Samsung Electronics (neuromorphic R&D)

HRL Laboratories

aiMotive (neuromorphic perception systems)

Applied Brain Research

Innatera Nanosystems

Key Questions Addressed in this Report

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

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

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

How do Neuromorphic Hardware market opportunities vary by end market size?

How does Neuromorphic Hardware break out by Type, by Application?

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