

Neuromorphic Chip Market Size, Share, and Outlook, 2025 Report- By Application (Image Recognition, Signal Processing, Data Processing, Others), By End-User (Aerospace and Defense, IT and Telecom, Automotive & Transportation, Healthcare, Industrial Automation, Others), By Offering (Hardware, Software), 2018-2032

<https://marketpublishers.com/r/NA1BD6211C1EEN.html>

Date: April 2025

Pages: 172

Price: US\$ 3,680.00 (Single User License)

ID: NA1BD6211C1EEN

Abstracts

Neuromorphic Chip Market Outlook

The Neuromorphic Chip Market size is expected to register a growth rate of 74.6% during the forecast period from \$52.66 Million in 2025 to \$2604.9 Million in 2032. The Neuromorphic Chip market is a thriving business that is poised to keep growing and presents potential growth opportunities for companies across the industry value chain.

The comprehensive market research report presents 12-year historic and forecast data on Neuromorphic Chip segments across 22 countries from 2021 to 2032. Key segments in the report include By Application (Image Recognition, Signal Processing, Data Processing, Others), By End-User (Aerospace and Defense, IT and Telecom, Automotive & Transportation, Healthcare, Industrial Automation, Others), By Offering (Hardware, Software). Over 70 tables and charts showcase findings from our latest survey report on Neuromorphic Chip markets.

Neuromorphic Chip Market Insights, 2025

The neuromorphic chip market is expanding as AI and edge computing demand hardware that mimics the efficiency of the human brain. Companies like Intel, IBM, and

SynSense are pioneering neuromorphic processors that use spiking neural networks (SNNs) to process data in a manner similar to biological neurons, enabling ultra-low-power computing. These chips are revolutionizing real-time AI applications in robotics, healthcare, and autonomous vehicles by significantly reducing latency and energy consumption. Neuromorphic computing is also making strides in brain-machine interfaces, helping researchers develop advanced prosthetics and neurorehabilitation solutions. As AI workloads become more complex, neuromorphic chips are expected to play a crucial role in advancing next-generation deep learning architectures.

Five Trends that will define global Neuromorphic Chip market in 2025 and Beyond

A closer look at the multi-million market for Neuromorphic Chip identifies rapidly shifting consumer preferences across categories. By focusing on growth and resilience, leading Neuromorphic Chip companies are prioritizing their investments across categories, markets, and geographies. The report analyses the most important market trends shaping the new landscape to support better decisions for the long and short-term future. The impact of tariffs by the US administration also significantly impact the profitability of Neuromorphic Chip vendors.

What are the biggest opportunities for growth in the Neuromorphic Chip industry?

The Neuromorphic Chip sector demonstrated remarkable resilience over the past year across developed and developing economies. Further, the market presents significant opportunities to leverage the existing momentum towards actions by 2032. On the other hand, recent macroeconomic developments including rising inflation and supply chain disruptions are putting pressure on companies. The chapter assists users to identify growth avenues and address business challenges to make informed commercial decisions with unique insights, data forecasts, and in-depth market analyses.

Neuromorphic Chip Market Segment Insights

The Neuromorphic Chip industry presents strong offers across categories. The analytical report offers forecasts of Neuromorphic Chip industry performance across segments and countries. Key segments in the industry include%li%By Application (Image Recognition, Signal Processing, Data Processing, Others), By End-User (Aerospace and Defense, IT and Telecom, Automotive & Transportation, Healthcare, Industrial Automation, Others), By Offering (Hardware, Software). The largest types, applications, and sales channels, fastest growing segments, and the key factors driving each of the categories are included in the report.

Forecasts of each segment across five regions are provided from 2021 through 2032 for Asia Pacific, North America, Europe, South America, Middle East, and African regions. In addition, Neuromorphic Chip market size outlook is provided for 22 countries across these regions.

Market Value Chain

The chapter identifies potential companies and their operations across the global Neuromorphic Chip industry ecosystem. It assists decision-makers in evaluating global Neuromorphic Chip market fundamentals, market dynamics, and disruptive trends across the value chain segments.

Scenario Analysis and Forecasts

Strategic decision-making in the Neuromorphic Chip industry is multi-faceted with the increased need for planning across scenarios. The report provides forecasts across three case scenarios%li%low growth, reference case, and high growth cases.

Asia Pacific Neuromorphic Chip Market Analysis%li%A Promising Growth Arena for Business Expansion

As companies increasingly expand across promising Asia Pacific markets with over 4.5 billion population, the medium-to-long-term future remains robust. The presence of the fastest-growing economies such as China, India, Thailand, Indonesia, and Vietnam coupled with strengthening middle-class populations and rising disposable incomes drive the market. In particular, China and India are witnessing rapid shifts in consumer purchasing behavior. China is recovering steadily with optimistic forecasts for 2025. Further, Japanese and South Korean markets remain stable with most companies focusing on new product launches and diversification of sales channels.

The State of Europe Neuromorphic Chip Industry 2025%li%Focus on Accelerating Competitiveness

As companies opt for an integrated agenda for competitiveness, the year 2025 presents optimistic scenarios for companies across the ecosystem. With signs of economic recovery across markets, companies are increasing their investments. Europe is one of the largest markets for Neuromorphic Chip with demand from both Western Europe and Eastern European regions increasing over the medium to long-term future. Increasing

omnichannel shopping amidst robust consumer demand for value purchases shapes the market outlook. The report analyses the key Neuromorphic Chip market drivers and opportunities across Germany, France, the United Kingdom, Spain, Italy, Russia, and other Europe.

The US Neuromorphic Chip market Insights%li%Vendors are exploring new opportunities within the US Neuromorphic Chip industry.

Easing inflation coupled with strengthening consumer sentiment is encouraging aggressive actions from the US Neuromorphic Chip companies. Market players consistently focusing on innovation and pursuing new ways to create value are set to excel in 2025. In addition, the Canadian and Mexican markets offer lucrative growth pockets for manufacturers and vendors. Focus on private-brand offerings and promotions, diversified sales channels, expansion into niche segments, adoption of advanced technologies, and sustainability are widely observed across the North American Neuromorphic Chip market.

Latin American Neuromorphic Chip market outlook rebounds in line with economic growth.

Underlying demand remains higher among urban consumers with an optimistic economic outlook across Brazil, Argentina, Chile, and other South and Central American countries. Increased consumer spending has been reported in Q1 -2025 and the prospects remain strong for rest of 2025. Aggressive ecosystem moves to create new sources of income are widely observed across markets in the region. Marketing activities focused on customer insights, operations, and support functions are quickly gaining business growth in the region.

Middle East and Africa Neuromorphic Chip Markets%li%New Opportunities for Companies Harnessing Diversity

Rapid growth in burgeoning urban locations coupled with a young and fast-growing population base is attracting new investments in the Middle East and African Neuromorphic Chip markets. Designing expansion and marketing strategies to cater to the local consumer base supports the market prospects. In addition to Nigeria, Algeria, South Africa, and other markets, steady growth markets in Ethiopia, Rwanda, Ghana, Tanzania, the Democratic Republic of Congo, and others present significant prospects for companies. On the other hand, Middle Eastern Neuromorphic Chip markets including the UAE, Saudi Arabia, Qatar, and Oman continue to offer lucrative pockets of

growth.

Competitive Landscape%li%How Neuromorphic Chip companies outcompete in 2025?

The ability to respond quickly to evolving consumer preferences and adapt businesses to niche consumer segments remains a key growth factor. The report identifies the leading companies in the industry and provides their revenue for 2024. The market shares of each company are also included in the report. Further, business profiles, SWOT analysis, and financial analysis of each company are provided in detail. Key companies analyzed in the report include Applied Brain Research Inc, BrainChip Holdings Ltd, General Vision Inc, Hewlett Packard Enterprise Co., HRL Laboratories LLC, IBM Corp, Intel Corp, Lockheed Martin Corp, Qualcomm Technologies Inc.

Neuromorphic Chip Market Segmentation

By Application

Image Recognition

Signal Processing

Data Processing

Others

By End-User

Aerospace and Defense

IT and Telecom

Automotive & Transportation

Healthcare

Industrial Automation

Others

By Offering

Hardware

Software

Leading Companies

Applied Brain Research Inc

BrainChip Holdings Ltd

General Vision Inc

Hewlett Packard Enterprise Co.

HRL Laboratories LLC

IBM Corp

Intel Corp

Lockheed Martin Corp

Qualcomm Technologies Inc

Reasons to Buy the report

Make informed decisions through long and short-term forecasts across 22 countries and segments.

Evaluate market fundamentals, dynamics, and disrupting trends set to shape 2025 and beyond.

Gain a clear understanding of the competitive landscape, with product portfolio and growth strategies.

Get an integrated understanding of the entire market ecosystem and companies.

Stay ahead of the competition through plans for growth in a changing environment for your geographic expansion.

Assess the impact of advanced technologies and identify growth opportunities based on actionable data and insights.

Get free Excel spreadsheet and PPT versions along with the report PDF.

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By Application

Image Recognition

Signal Processing

Data Processing

Others

By End-User

Aerospace and Defense

IT and Telecom

Automotive & Transportation

Healthcare

Industrial Automation

Others

By Offering

Hardware

Software

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BrainChip Holdings Ltd

General Vision Inc

Hewlett Packard Enterprise Co.

HRL Laboratories LLC

IBM Corp

Intel Corp

Lockheed Martin Corp
Qualcomm Technologies Inc
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