

Neuromorphic Chip Market By End user (Consumer Electronics, Automotive, IT and Telecom, Aerospace and Defense, Industrial, Healthcare, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-10-01 | 242 pages | Allied Market Research

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Report description:

The neuromorphic chip market was valued at \$87.89 million in 2022 and is estimated to reach \$7,112.0 million by 2032, exhibiting a CAGR of 55.8% from 2023 to 2032.

A neuromorphic chip is a microprocessor designed to imitate the architecture and operation of the human brain. Neuromorphic chips are digital and analog integrated circuits that implement neural networking technology. These chips are designed to process and store data together on each individual neuron instead of having separate areas for each, which allows them to avoid the von Neumann bottleneck and experience both high performance and low energy consumption at the same time. The increasing use of biometrics and in-speech recognition drives the demand for neuromorphic chips in many electronics gadgets. These chips are used to process audio data in the cloud and then return it to the phone. In addition, artificial intelligence (AI) requires more data processing power, but low-energy neuromorphic chips have the potential to shift current cloud-based applications towards direct execution on smartphones in the future without significantly depleting the device's battery. Neuromorphic chips are specific brain-inspired ASIC that implements the Spiked Neural Networks (SNNs). It has an object to reach the massively parallel brain processing ability in tens of watts on average.

The adoption of neuromorphic chips in healthcare presents a notable opportunity for advancing precision and real time diagnostics and personalized treatment approaches. These chips excel at rapidly processing extensive and intricate patient data, empowering healthcare practitioners to make more informed decisions, leading to enhanced patient outcomes. Furthermore, their energy-efficient design proves advantageous for portable and implantable medical devices, effectively extending their operational efficiency and lifespan, making them an asset in the pursuit of better healthcare solutions.

The neuromorphic chip market is segmented on the basis of end user and region. By end user, the market is divided into consumer electronics, automotive, IT and telecom, aerospace and defense, industrial, healthcare and others. By region, it is analyzed across North America (the U.S., Canada, and Mexico), Europe (UK, Germany, France, Italy, and the rest of Europe),

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Asia-Pacific (China, Japan, India, South Korea, Taiwan, and the rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). Competitive analysis and profiles of the major neuromorphic chip market players, such as IBM Corporation, HRL Laboratories, LLC, SynSense, General Vision Inc., GrAI Matter Labs, SK HYNIX INC., QUALCOMM Incorporated, BrainChip, Inc, Samsung Electronics Co. Ltd and Intel Corporation is provided in this report. Product launch, agreement, partnership, and acquisition business strategies were adopted by the major market players in 2022.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the neuromorphic chip market analysis from 2022 to 2032 to identify the prevailing neuromorphic chip market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the neuromorphic chip market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global neuromorphic chip market trends, key players, market segments, application areas, and market growth strategies.

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- Analysis of raw material in a product (by %)
- Technology Trend Analysis
- Market share analysis of players by products/segments
- New Product Development/ Product Matrix of Key Players
- Additional company profiles with specific to client's interest
- Additional country or region analysis- market size and forecast
- Expanded list for Company Profiles
- Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Key Market Segments

By End user

- Healthcare
- Others
- Consumer Electronics
- Automotive
- IT and Telecom

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- Aerospace and Defense
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- By Region
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- U.S.
- Canada
- Mexico
- Europe
- UK
- Germany
- France
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Taiwan
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- IBM Corporation
- GrAI Matter Labs
- SynSense
- HRL Laboratories, LLC
- BrainChip, Inc
- Samsung Electronics Co. Ltd
- Intel Corporation
- General Vision Inc.
- SK HYNIX INC.
- QUALCOMM Incorporated

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