

# Neuromorphic Computing Market Size, Share, Price, Trends, Growth, Analysis, Outlook, Report, Forecast 2023-2028

*Global Neuromorphic Computing Market Size To Grow At A CAGR Of 20% In The Forecast Period Of 2023-2028*

30 NORTH GOULD STREET, SHERIDAN, WYOMING, UNITED STATES, January 17, 2023 /EINPresswire.com/ -- The '[Global Neuromorphic Computing Market Size, Share, Trends, Growth, Analysis, Key Players, Report and Forecast 2023-2028](#)' by Expert Market Research gives an extensive outlook of the global neuromorphic computing market, assessing the market on the basis of its segments like component, application, end use, and major regions.



The key highlights of the report include:

Market Overview (2018-2028)

Forecast CAGR (2023-2028): 20%

Neuromorphic computing is a new field that is gaining traction in numerous applications including consumer electronics, automotive, and military and defence, among others. Its unique characteristics makes it a great tool for innovation. Neuromorphic chips are expected to witness a high demand for the manufacturing of luxury and sports automobiles in the forecast period. Hence, the increasing demand for smart cars, supported by rising disposable incomes and increasing awareness pertaining to newer technologies are further fuelling the neuromorphic computing market growth.

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Neuromorphic computing is witnessing a heightened application in drones, which are facing a growing demand in the military and defence sector. Neuromorphic computing incorporates numerous features into aerial attack and defence systems such as good decision making, higher energy efficiency, and adaptive learning, among others. Over the forecast period, the anticipated increase of military and defence expenditure across the emerging sovereign military powers is expected to bolster the neuromorphic computing market growth.

Furthermore, neuromorphic computing bridges the gap between the modern computing requirements of smart workers and inability of computers to perform advanced tasks such as signal processing. In this regard, neuromorphic computing is expected to witness a decent demand in the modern computing systems to improve the operational efficiency of various end use sectors.

### Neuromorphic Computing Industry Definition and Major Segments

An Neuromorphic computing, also known as neuromorphic engineering, is a model of computer engineering which designs computing hardware and software using scientific concepts of biology, mathematics, and physics in order to apply the human brain functionality to cognitive computing. Neuromorphic computing aims at developing computer designs that are inspired by human nervous system and brain functioning. It utilises large-scale integration systems that are modelled upon neuro-biological systems of the human nervous system.

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Based on component, the market is bifurcated into:

- Hardware
- Software

On the basis of application, the market is divided into:

- Signal Processing
- Image Processing
- Data Processing
- Object Detection
- Others

By end use, the market is segmented into:

- Consumer Electronics
- Automotive

Healthcare  
Military and Defence  
Others

On the basis of region, the market is categorised into:

North America  
Europe  
Asia Pacific  
Latin America  
Middle East and Africa

### Neuromorphic Computing Market Trends

The key trends in the global neuromorphic computing market include the technological advancements in the healthcare sector leading to a heightened demand for neuromorphic computing in advanced medical computing systems. Neuromorphic computing can offer various advantages which can improve drug delivery systems and increasing the efficiency of body condition sensing. Meanwhile, neuromorphic computing is likely to witness a healthy demand from prosthetics in the forecast period.

Rapid automation across various sectors such as consumer electronics, military and defence, and automotive, among others, is further fuelling the demand for neuromorphic computing models. For instance, self-driving cars are a new concept which are already gaining traction among the young population, leading to a greater scope of neuromorphic computing. The emergence of data analytics is another crucial driving factor of the neuromorphic computing market. This can be attributed to the fact that neuromorphic computing can efficiently collect and manage data while saving costs.

In geographical terms, regions like North America and Europe are expected to witness a heightened growth in the forecast period, owing to the favourable digitalisation policies by the governments in the region which are escalating the application of neuromorphic computing across various end use sectors. Investments in research and development are also supporting regional growth of the neuromorphic computing market in North America and Europe.

### Key Market Players

The major players in the neuromorphic computing market report are:

Intel Corporation  
BrainChip Holdings Ltd.  
General Vision Inc.  
Latin America

IBM Corporation  
Others

The report studies the latest updates in the market, along with their impact across the market. It also analysis the market demand, together with its price and demand indicators. The report also tracks the market on the bases of SWOT and Porter's Five Forces Models.

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