

Global Spiking Neural Network Chips Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GDE9EE2618F1EN.html>

Date: February 2024

Pages: 101

Price: US\$ 3,480.00 (Single User License)

ID: GDE9EE2618F1EN

Abstracts

According to our (Global Info Research) latest study, the global Spiking Neural Network Chips market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Spiking Neural Network Chips are a computational model for implementing and simulating spiking neural networks. Spiking Neural Networks (SNN) are a novel model that simulates natural learning by dynamically remapping neural networks and are used in neuromorphic computing to make decisions based on learning patterns that change over time. Neuromorphic processors leverage these asynchronous, event-based SNNs to achieve orders of magnitude improvements in power consumption and performance compared to traditional architectures.

The Global Info Research report includes an overview of the development of the Spiking Neural Network Chips industry chain, the market status of Wearable Artificial Intelligence (Signal Recognition, Image Recognition), Speech Recognition (Signal Recognition, Image Recognition), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Spiking Neural Network Chips.

Regionally, the report analyzes the Spiking Neural Network Chips markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Spiking Neural Network Chips market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Spiking Neural Network Chips market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Spiking Neural Network Chips industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Signal Recognition, Image Recognition).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Spiking Neural Network Chips market.

Regional Analysis: The report involves examining the Spiking Neural Network Chips market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Spiking Neural Network Chips market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Spiking Neural Network Chips:

Company Analysis: Report covers individual Spiking Neural Network Chips manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Spiking Neural Network Chips This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Wearable Artificial Intelligence, Speech Recognition).

Technology Analysis: Report covers specific technologies relevant to Spiking Neural Network Chips. It assesses the current state, advancements, and potential future developments in Spiking Neural Network Chips areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Spiking Neural Network Chips market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Spiking Neural Network Chips market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

- Signal Recognition

- Image Recognition

Market segment by Application

- Wearable Artificial Intelligence

- Speech Recognition

- Augmented Reality

- Others

Major players covered

Intel

IBM

Brainchip

Eta Compute

Innatera

Imec

SynSense

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Spiking Neural Network Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Spiking Neural Network Chips, with price, sales, revenue and global market share of Spiking Neural Network Chips from 2019 to 2024.

Chapter 3, the Spiking Neural Network Chips competitive situation, sales quantity,

revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Spiking Neural Network Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Spiking Neural Network Chips market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Spiking Neural Network Chips.

Chapter 14 and 15, to describe Spiking Neural Network Chips sales channel, distributors, customers, research findings and conclusion.

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