

Global Neuromorphic Chip Market Growth 2018-2023

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Abstracts

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Neuromorphic engineering, also known as neuromorphic computing, was developed describing the use of very-large-scale integration (VLSI) systems containing electronic analog circuits to mimic neuro-biological architectures present in the nervous system. This means that chips made using those technologies are smart and can represent the human brain. The usage of those chips makes the instrument not only more reliable but also increases its performance. The reason why voice- and gesture-controlled devices work effectively is because of those chips. The usage of these chips is not only limited to one or two functions. High tech robots, future concepts of cars, and others are anticipated to use this technology.

Increase in dependency of software in industries such as aerospace & defense, IT & telecom, and medical and modernization of industries drive the growth of the neuromorphic computing software market. Adoption of speech or biometric recognitions also boost the market. With the increase in wearable devices, IoT is also projected to fuel the growth of the market.

However, the complexity in implementing and concerns over security & privacy are some of the restraints in the path of its growth.

Over the next five years, LPI(LP Information) projects that Neuromorphic Chip will register a xx% CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Neuromorphic Chip market for 2018-2023.

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

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Hardware

Software

Segmentation by application:

Image Recognition

Signal Recognition

Data Mining

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Applied Brain Research

BrainChip Holdings

General Vision

HRL Laboratories

HP Development Company

IBM Corporation

Intel Corporation

Lockheed Martin Corporation

Qualcomm Technologies

Samsung Electronics

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Neuromorphic Chip consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Neuromorphic Chip market by identifying its various subsegments.

Focuses on the key global Neuromorphic Chip manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Neuromorphic Chip with respect to individual growth trends,

future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Neuromorphic Chip submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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