

Global Spintronics Market Size study & Forecast, by Device Type (Metal- Based, Semiconductor-Based), by Application (Magnetic Sensor, Magnetoresistive random access memory, Radio frequency and Microwave Devices), by End Use (Automotive, Industrial, Consumer Electronics, Healthcare, IT & Telecom)- and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/GB66BA3EF94DEN.html>

Date: June 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GB66BA3EF94DEN

Abstracts

Global Spintronics Market is valued at approximately USD XXX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XXX% over the forecast period 2023-2030. Spintronics is a technology that uses the spin of electrons to store and process information. It is a type of nanotechnology that has potential to revolutionize electronics because of its potential to be faster and be more resilient than current technology. The Spintronics market is expanding because of factors such as increasing demand of Magnetoresistive random access memory and increase demand for electronics devices. However, its importance has progressively increased during the last few decades.

According to Statista, the nonvolatile random-access memory (NRAM) market worldwide, from 2020 to 2023. In 2020, the global NRAM market is forecast to be worth 196 million U.S. dollars to 850 million U.S. dollars. According to the statista in 2021, the number of mobile devices operating worldwide stood at almost 15 billion, up from just over 14 billion in the previous year. The number of mobile devices is expected to reach 18.22 billion by 2025, an increase of 4.2 billion compared to 2020 levels. In addition, Increasing use of spintronic devices in consumer electronics and expansion of healthcare industry would create a lucrative growth prospectus for the market over the forecast period. However, lack of awareness among end users stifles market growth throughout the forecast 2022-2030..

The key regions considered for the Global Spintronics Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America Dominates the Global Market because of factors such as significant growth in sectors like cloud services, enterprise storage, server RAID, industrial automation and IoT, and telecom infrastructure, fueling demand for cutting-edge technologies like spintronics. According to the Statista, the Electronics segment is projected to reach US\$165.70bn in 2023. Revenue is expected to show an annual growth rate (CAGR 2023-2027) of 5.91%, resulting in a projected market volume of US\$208.50bn by 2027 during the forecast period. Asia pacific is the fastest growing region because rising in technological developments in the spintronics industry, especially in magnetic sensors such as high resolution, high sensitivity, compact size and low power consumption, contribute significantly to the growth of the global market for spintronic market.

Major market player included in this report are:

Everspin Technologies Inc.

Crocus Technology Inc

Synopsys

Avalanche Technology

Nonvolatile Electronics ,Inc.

Intel Corporation

International Business Machines Corporation

Spin Memory Inc.

Allegro Microsystems, Inc.

Freescale Semiconductor, Inc.

Recent Developments in the Market:

In September 2022, The Intel Developer Cloud will make new and future hardware platforms available for pre-launch development and testing, such as the 4th Gen Intel® Xeon® Scalable processors Sapphire Rapids and Intel® Data Center GPUs.

In august 2020, Spin memory announced that it has developed a new innovative technology, called the Universal Selector, which will significantly improve the capabilities of existing and emerging memory technologies including MRAM, DRAM and ReRAM as it enables a novel way to design vertical cell transistors which achieves higher levels of performance, reliability and density.

Global Spintronics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Device, Application, End Use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Device:

Metal- Based

Semiconductor-Based

By Application:

Magnetic Sensor

Magnetoresistive random access memory

Radio frequency

Microwave devices

By End Use:

Automotive

Industrial

Consumer Electronics
Healthcare
IT & Telecom

By Region:

North America
U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa

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