

Neuromorphic Spintronics Market Size, Share & Trends Analysis Report By Application (Neuromorphic Processors, AI Accelerators, Edge Computing Devices), By End Use (Aerospace & Defense, Automotive, Industrial Automation), By Region, And Segment Forecasts, 2025 - 2033

<https://marketpublishers.com/r/N8B2063ABCDEEN.html>

Date: November 2025

Pages: 200

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

ID: N8B2063ABCDEEN

Abstracts

The global neuromorphic spintronics market size was estimated at USD 141.2 million in 2024 and is projected to reach USD 1,014.7 million by 2033, growing at a CAGR of 24.6% from 2025 to 2033. The market is expanding with the growing demand for brain-inspired computing systems.

Advancements in MRAM and spin-based logic devices are enhancing neuromorphic hardware capabilities. Rising focus on energy-efficient computing solutions is supporting adoption across industries. Continuous research and development are driving technological progress and market growth. The increasing focus on energy-efficient hardware using spintronic components is driving the growth of the neuromorphic spintronics market. Increasing demand for low-power AI systems is encouraging advancements in spin-memristor and spin-based logic technologies. Companies are investing in collaborative R&D to enhance performance and scalability. These innovations are enabling faster, more efficient neuromorphic processors. The shift toward sustainable computing solutions is further strengthening market expansion. For instance, in October 2024, TDK Corporation, an electronics company in Japan, developed a spin-memristor for neuromorphic devices that can reduce AI power consumption by up to 99%. This launch aims to create energy-efficient, brain-inspired computing hardware that addresses the rising power demands of AI applications. The company is collaborating with France's CEA and Japan's Tohoku University to

advance the technology toward practical semiconductor applications.

Advancements in material science are driving rapid innovation within neuromorphic spintronics. Researchers are developing next-generation materials, including two-dimensional magnets, skyrmions, and spin-orbit torque devices, to improve device performance. These materials provide enhanced scalability, stability, and faster switching speeds crucial for neuromorphic architectures. Improved endurance and miniaturization achieved through these materials allow efficient emulation of synaptic and neuronal functions. Such progress reduces energy dissipation while maintaining high-speed data transfer capabilities. Continuous breakthroughs in materials research are expanding opportunities for practical prototyping and commercialization. Collaboration between research institutions and semiconductor companies is accelerating the transition from lab-scale devices to scalable production. This technological advancement is expected to strengthen the competitiveness of neuromorphic hardware in AI and high-performance computing.

Edge AI and IoT expansion is another major factor supporting neuromorphic spintronics growth. The increasing adoption of connected devices and autonomous systems requires hardware capable of low-power, real-time processing. Neuromorphic spintronic chips offer the ability to perform on-device computation, reducing dependence on external servers. Their non-volatility and compact structure make them suitable for portable and energy-sensitive applications. These chips enhance adaptability by enabling learning directly at the edge, improving latency and system responsiveness. Growing use across industrial, automotive, and consumer domains reinforces ongoing investment and innovation in this field. Expanding 5G infrastructure and smart manufacturing initiatives are further boosting the demand for energy-efficient processing solutions. As edge networks evolve, neuromorphic spintronic architectures are expected to become a critical enabler of next-generation intelligent systems. This growing ecosystem is accelerating the commercialization of neuromorphic spintronic hardware across emerging edge computing applications.

Global Neuromorphic Spintronics Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global neuromorphic spintronics market in terms of application, end use, and region.

Application Outlook (Revenue, USD Million, 2021 - 2033)

Neuromorphic Processors

AI Accelerators

Edge Computing Devices

Autonomous Controllers

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Aerospace & Defense

Automotive

Industrial Automation

Consumer Electronics

Healthcare

IT & Telecommunication

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

Japan

India

Australia

South Korea

Latin America

Brazil

Middle East & Africa (MEA)

KSA

UAE

South Africa

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