

Global MRAM Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MRAM market size is expected to reach \$ 839 million by 2032, rising at a market growth of 25.3% CAGR during the forecast period (2026-2032).

Magnetoresistive Random Access Memory (MRAM) is a non-volatile storage technology based on the magnetoresistive effect, with its core unit being a magnetic tunnel junction (MTJ), composed of two ferromagnetic layers sandwiching an insulating tunnel barrier layer. By controlling the magnetization direction of the free layer and the fixed layer to be parallel or antiparallel, the MTJ exhibits a low-resistance state (logic 0) or a high-resistance state (logic 1), thereby enabling data storage. The technological evolution of MRAM has undergone three generations:

First generation: Magnetically driven MRAM, which requires an external magnetic field for writing and has relatively low efficiency.

Second generation: Spin-transfer torque MRAM (STT-MRAM), which flips the magnetic moment using a current perpendicular to the MTJ, has been commercially mass-produced, with speeds approaching SRAM and durability exceeding 1E15 cycles.

Third generation: Spin-orbit torque MRAM (SOT-MRAM) and voltage-controlled magnetic anisotropy MRAM (VCMA-MRAM). Among these, SOT-MRAM uses in-plane current to generate spin-orbit torque to flip the magnetic moment, achieving write speeds of up to 0.4 nanoseconds, with power consumption only 1% of STT-MRAM, and supports in-memory computing, making it the next-generation mainstream technology.

Global MRAM sales reached 32,981,000 units in 2025, with an average price of US\$4.79 per unit.

Development Trends

SOT-MRAM Dominates Next Generation: 0.4ns write speed, 99% power reduction, commercialisation for automotive/industrial applications by 2026, suitable for AI edge computing.

VCMA-MRAM Breakthrough: Voltage-driven, phased-array power consumption, poised to enter mainstream embedded applications by 2028.

3D Stacking + New Materials: Graphene magnetic materials boost performance by 50% and reduce power consumption by 30%; 3D stacking density increases over tenfold.

In-Memory Computing (CIM) Integration: Merging MRAM with computational units enhances AI inference energy efficiency by 10-fold, enabling edge/endpoint AI applications.

Downstream (Applications / Systems)

Replacing traditional storage: eMRAM replaces eFlash (addressing scaling bottlenecks below 28nm) and certain SRAM applications; standalone MRAM replaces NOR Flash and low-capacity DRAM, restructuring the storage hierarchy.

End-device upgrades:

Automotive: eMRAM adopted in ADAS MCUs and autonomous driving domain controllers, enhancing real-time performance and reliability; automotive-grade market set for explosive growth from 2026.

AIoT: Low-power, non-volatile characteristics suit massive sensor nodes, supporting 50 billion IoT device demands.

Data centres: MRAM as cache reduces DRAM power consumption and boosts I/O performance.

System architecture transformation: Integrated compute-storage architectures proliferate, enhancing edge AI computing power while reducing power consumption; non-volatile memory simplifies system design, enabling instant boot and power-off data protection.

This report studies the global MRAM production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MRAM and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of MRAM that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MRAM total production and demand, 2021-2032, (K Units)

Global MRAM total production value, 2021-2032, (USD Million)

Global MRAM production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global MRAM consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: MRAM domestic production, consumption, key domestic manufacturers and share

Global MRAM production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global MRAM production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global MRAM production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global MRAM market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Everspin Technologies, Avalanche Technology, Honeywell, Renesas, Samsung Electronics, Hikstor Technology, NVE Corporation, KOWIN Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World MRAM market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global MRAM Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MRAM Market, Segmentation by Type:

Toggle MRAM

STT-MRAM

Other

Global MRAM Market, Segmentation by morphology:

Embedded MRAM (eMRAM)

Standalone MRAM

Global MRAM Market, Segmentation by Sales Channels:

Direct Sales

Distribution

Global MRAM Market, Segmentation by Application:

Aerospace

Automotive

Factory Automation

Enterprise Storage

Internet of Things

Others

Companies Profiled:

Everspin Technologies

Avalanche Technology

Honeywell

Renesas

Samsung Electronics

Hikstor Technology

NVE Corporation

KOWIN Technology

Key Questions Answered:

1. How big is the global MRAM market?
2. What is the demand of the global MRAM market?
3. What is the year over year growth of the global MRAM market?
4. What is the production and production value of the global MRAM market?
5. Who are the key producers in the global MRAM market?
6. What are the growth factors driving the market demand?

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