

# Global STT-MRAM Chips Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global STT-MRAM Chips market size is expected to reach \$ 1628 million by 2032, rising at a market growth of 18.0% CAGR during the forecast period (2026-2032).

STT-MRAM chips are non-volatile memory products that use magnetic tunnel junctions as the core storage element and rely on spin-transfer torque for write operations. Their value lies in simultaneously addressing critical requirements such as power-loss data retention, low latency, high endurance, high-temperature reliability, and fast random read and write performance. As a result, they can serve either as discrete memory chips replacing parts of NOR Flash, EEPROM, FeRAM, and nvSRAM, or as embedded eMRAM platforms integrated into MCUs, SoCs, and automotive-grade devices. Commercialization has now evolved along two paths. One path consists of discrete devices from suppliers such as Everspin, Renesas, NETSOL, Siproin, Avalanche, and HIKSTOR, covering SPI, QSPI, xSPI, IIC, parallel, and high-reliability specialized products for code storage, boot configuration, data logging, cache persistence, and sudden power-loss protection. The other path consists of embedded MRAM process and platform services from Samsung Foundry, GF, TSMC, UMC, and HIKSTOR, targeting automotive electronics, industrial control, the Internet of Things, edge AI, and high-reliability SoCs. Major customers include MCU and SoC vendors, industrial equipment suppliers, automotive Tier 1 companies, smart metering vendors, aerospace and defense system providers, and enterprise storage equipment companies, while the common business models include discrete chip sales, process platform services, embedded IP or macro integration, and customized development.

The reason STT-MRAM chips show strong growth potential in this research is not that they merely replace one traditional memory category, but that they simultaneously address several high-value requirements. Official product pages repeatedly highlight

power-loss data retention, fast write speed, very high endurance, wide-temperature operation, and high reliability, which naturally position STT-MRAM for code storage, power-fail protection, data logging, cache persistence, boot configuration, and critical state retention in automotive and high-reliability systems. Compared with traditional NOR Flash, it is more attractive in write speed and endurance, while compared with SRAM it offers the additional advantage of non-volatility. This makes it easier to penetrate applications that require both real-time response and data security. Especially in industrial control, smart metering, edge devices, and software-defined vehicles, memory is no longer just a capacity component, but an important part of system response speed, upgrade capability, and security, which is the fundamental reason why STT-MRAM can scale commercially.

From the supply-side perspective, the STT-MRAM industry is no longer a market defined by a single type of device company. It has become a composite market jointly shaped by discrete chip vendors, fabless companies, foundries, and embedded platform providers. Everspin and Avalanche represent the product-driven route centered on high-performance and high-reliability discrete products, while Renesas, NETSOL, Siproin, and HIKSTOR cover broader industrial and embedded markets. Samsung Foundry, GF, TSMC, and UMC, by contrast, are pushing MRAM into the process layer of MCUs, SoCs, and automotive-grade chips, enabling STT-MRAM to evolve from an optional memory component into a foundational system-chip capability. This supply structure means future competition will not revolve only around the price of a single device, but increasingly around platform availability, process compatibility, automotive qualification, high-temperature capability, ecosystem coordination, and the pace of customer adoption, all of which will continue to raise barriers to entry.

Looking ahead over the next few years, I am inclined to take a relatively optimistic view of the industry. Three major forces are reinforcing one another. First, automotive electronics is pushing embedded non-volatile memory toward more advanced nodes and higher reliability grades, and automotive MRAM is no longer confined to laboratory validation. Second, aerospace and high-reliability markets demand radiation tolerance, instant write capability, and system simplification, making STT-MRAM a preferred solution in high-margin niche segments. Third, global semiconductor policy continues to emphasize domestic manufacturing, process platforms, and research capability, which gives platform-based MRAM stronger strategic value because it is tied directly to advanced manufacturing and critical system chips. As more suppliers expand from SPI, IIC, and parallel interfaces into xSPI, Dual QSPI, and more advanced eMRAM platforms, the commercial opportunity for STT-MRAM will extend beyond simply replacing legacy memory and increasingly position it as a key building block in next-

generation high-reliability non-volatile memory architectures.

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

This report is a detailed and comprehensive analysis of the world market for STT-MRAM Chips 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 STT-MRAM Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global STT-MRAM Chips total production and demand, 2021-2032, (Million Units)

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

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

Global STT-MRAM Chips consumption by region & country, CAGR, 2021-2032 & (Million Units)

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

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

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

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

This report profiles key players in the global STT-MRAM Chips 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 Samsung Electronics Co., Ltd., Everspin Technologies, Inc., Avalanche Technology Inc., Renesas Electronics Corporation, NETSOL Co., Ltd., GLOBALFOUNDRIES Inc., Taiwan Semiconductor Manufacturing Company Limited, United Microelectronics Corporation, HIKSTOR, Shanghai Siproin Microelectronics Co., Ltd., 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 STT-MRAM Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 STT-MRAM Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global STT-MRAM Chips Market, Segmentation by Type:

14 nm

28 nm

Others

## Global STT-MRAM Chips Market, Segmentation by Product Form:

Discrete STT-MRAM Chips

Embedded MRAM Process Platforms

## Global STT-MRAM Chips Market, Segmentation by Interface Type:

IIC Interface

SPI Interface

Quad SPI And xSPI Interfaces

Parallel Interface

Platform Macros

## Global STT-MRAM Chips Market, Segmentation by Application:

Mobile and Consumer

Automotive

Industrial

Data Center

## Companies Profiled:

Samsung Electronics Co., Ltd.

Everspin Technologies, Inc.

Avalanche Technology Inc.

Renesas Electronics Corporation

NETSOL Co., Ltd.

GLOBALFOUNDRIES Inc.

Taiwan Semiconductor Manufacturing Company Limited

United Microelectronics Corporation

HIKSTOR

Shanghai Siproin Microelectronics Co., Ltd.

#### Key Questions Answered:

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

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