

Global Parallel Interface MRAM Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GD6CDE0E2DC8EN.html>

Date: June 2026

Pages: 126

Price: US\$ 3,480.00 (Single User License)

ID: GD6CDE0E2DC8EN

Abstracts

According to our (Global Info Research) latest study, the global Parallel Interface MRAM market size was valued at US\$ 175 million in 2025 and is forecast to a readjusted size of US\$ 257 million by 2032 with a CAGR of 5.6% during review period.

Parallel Interface MRAM refers to a type of Magnetoresistive Random Access Memory (MRAM) that communicates with a host system through a parallel data bus rather than a serial interface. It typically uses wide data lines (such as x8, x16, or x32) and operates in a manner similar to traditional SRAM or asynchronous SRAM-like memory interfaces. This architecture enables high data throughput and low-latency access, making it suitable for applications requiring fast random access and compatibility with legacy memory controllers, such as industrial systems, aerospace electronics, and embedded computing platforms. In 2025, global Parallel Interface MRAM production reached approximately 4.87 M units, with an average global market price of around US\$ 35 per unit. Annual production capacity is approximately 5.6 M units. Gross Profit Margin is approximately 62%. The industry chain of Parallel Interface MRAM is highly concentrated and technology-intensive. Upstream mainly includes high-purity semiconductor materials such as silicon wafers, magnetic tunnel junction (MTJ) stack materials (CoFeB-based thin films), and advanced deposition equipment (PVD, ALD). Midstream is dominated by a few specialized manufacturers and foundry partners that integrate MRAM cell structures into CMOS logic processes, with key players focusing on high-reliability discrete chip design and packaging (e.g., SRAM-compatible x8/x16 interfaces). Downstream demand is driven by industrial control systems, aerospace and defense electronics, and legacy SRAM replacement markets, where low latency and non-volatility are critical requirements. Parallel Interface MRAM is a classic 'high-value but low-volume' niche technology. Its value proposition is strong, combining SRAM-like

speed with non-volatile memory?but its adoption is constrained by cost, limited ecosystem scale, and the gradual shift toward SPI MRAM and embedded MRAM solutions. In my view, its long-term growth will remain steady but capped, primarily sustained by mission-critical systems rather than mass commercial electronics.

This report is a detailed and comprehensive analysis for global Parallel Interface MRAM market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Interface Protocol and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Parallel Interface MRAM market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Parallel Interface MRAM market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Parallel Interface MRAM market size and forecasts, by Interface Protocol and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Parallel Interface MRAM market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Parallel Interface MRAM

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Parallel Interface MRAM market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Spin Memory, Avalanche Technology, Micron Technology Inc., Infineon Technologies (Germany), Renesas Electronics Corporation, Everspin Technologies, Honeywell, NXP Semiconductors, STMicroelectronics, Nve Corporation, etc.

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

Market Segmentation

Parallel Interface MRAM market is split by Interface Protocol and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Interface Protocol, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Interface Protocol

Parallel SRAM-Compatible MRAM

Parallel Asynchronous MRAM

Burst Mode Parallel MRAM

High-Reliability Parallel MRAM

Market segment by Parameter Sub-Dimension

x8 Parallel MRAM

x16 Parallel MRAM

x32 Parallel MRAM

Market segment by Product Form

Discrete Parallel MRAM IC

Multi-chip Module Parallel MRAM

Embedded Parallel MRAM IP

Market segment by Application

Industrial

Automotive

Aerospace & Defense

Commercial

Others

Major players covered

Spin Memory

Avalanche Technology

Micron Technology Inc.

Infineon Technologies (Germany)

Renesas Electronics Corporation

Everspin Technologies

Honeywell

NXP Semiconductors

STMicroelectronics

Nve Corporation

Siproin Microelectronics

GigaDevice Semiconductor

Fudan Microelectronics Group

Wuhan Xinxin Semiconductor

Changxin Memory Technologies

Suzhou Memory Technology Co., Ltd.(China)

Beijing Tongfang Microelectronics(China)

Nanjing SemiDrive Technology(China)

Zhuhai Jieli Technology(China)

Hangzhou Silan Microelectronic(China)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Parallel Interface MRAM product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Parallel Interface MRAM, with price, sales quantity, revenue, and global market share of Parallel Interface MRAM from 2021 to 2026.

Chapter 3, the Parallel Interface MRAM competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Parallel Interface MRAM breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Interface Protocol and by Application, with sales market share and growth rate by Interface Protocol, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Parallel Interface MRAM market forecast, by regions, by Interface Protocol, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Parallel Interface MRAM.

Chapter 14 and 15, to describe Parallel Interface MRAM sales channel, distributors, customers, research findings and conclusion.

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