

# Global Ferroelectric RAM Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Ferroelectric RAM market size was valued at USD 280.9 million in 2023 and is forecast to a readjusted size of USD 365.4 million by 2030 with a CAGR of 3.8% during review period.

Ferroelectric RAM (FeRAM, F-RAM or FRAM) is a random-access memory similar in construction to DRAM but utilizing a ferroelectric layer instead of a dielectric layer to achieve non-volatility. FeRAM is one of a growing number of alternative non-volatile random-access memory technologies which can offer that same functionality as flash memory.

FeRAM consists of a grid of small capacitors and associated wiring and signaling transistors. Each storage element, a cell, consists of one capacitor and one transistor. Unlike the DRAM use a linear dielectric in its cell capacitor, dielectric structure in the FeRAM cell capacitor usually contains ferroelectric material, typically lead zirconate titanate (PZT).

A ferroelectric material has a nonlinear relationship between the applied electric field and the apparent stored charge. The ferroelectric characteristic has the form of a hysteresis loop, which is very similar in shape to the hysteresis loop of ferromagnetic materials. The dielectric constant of a ferroelectric is typically much higher than that of a linear dielectric because of the effects of semi-permanent electric dipoles formed in the crystal structure of the ferroelectric material. When an external electric field is applied across a dielectric, the dipoles tend to align themselves with the field direction, produced by small shifts in the positions of atoms and shifts in the distributions of electronic charge in the crystal structure. After the charge is removed, the dipoles retain

their polarization state. Binary '0's and '1's are stored as one of two possible electric polarizations in each data storage cell. For example, in the figure a '1' is encoded using the negative remnant polarization '-Pr', and a '0' is encoded using the positive remnant polarization '+Pr'. In terms of operation, FeRAM is similar to DRAM. Writing is accomplished by applying a field across the ferroelectric layer by charging the plates on either side of it, forcing the atoms inside into the 'up' or 'down' orientation (depending on the polarity of the charge), thereby storing a '1' or '0'. Reading, however, is somewhat different than in DRAM. The transistor forces the cell into a particular state, say '0'. If the cell already held a '0', nothing will happen in the output lines. If the cell held a '1', the re-orientation of the atoms in the film will cause a brief pulse of current in the output as they push electrons out of the metal on the 'down' side. The presence of this pulse means the cell held a '1'. Since this process overwrites the cell, reading FeRAM is a destructive process, and requires the cell to be re-written if it was changed.

The major players in global Ferroelectric RAM market include Ramtron, Fujitsu, etc. The top 2 players occupy about 85% shares of the global market. North America and China are main markets, they occupy about 60% of the global market. Serial Memory is the main type, with a share about 60%. Smart Meters and Medical Devices are main applications, which hold a share about 50%.

The Global Info Research report includes an overview of the development of the Ferroelectric RAM industry chain, the market status of Smart Meters (Serial Memory, Parallel Memory), Automotive Electronics (Serial Memory, Parallel Memory), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Ferroelectric RAM.

Regionally, the report analyzes the Ferroelectric RAM markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Ferroelectric RAM market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Ferroelectric RAM market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Ferroelectric RAM industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Serial Memory, Parallel Memory).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Ferroelectric RAM market.

**Regional Analysis:** The report involves examining the Ferroelectric RAM market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Ferroelectric RAM market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Ferroelectric RAM:

**Company Analysis:** Report covers individual Ferroelectric RAM manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Ferroelectric RAM This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Smart Meters, Automotive Electronics).

**Technology Analysis:** Report covers specific technologies relevant to Ferroelectric RAM. It assesses the current state, advancements, and potential future developments in Ferroelectric RAM areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Ferroelectric RAM market. This analysis helps understand market share, competitive advantages, and

potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

### Market Segmentation

Ferroelectric RAM market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Serial Memory

Parallel Memory

Others

### Market segment by Application

Smart Meters

Automotive Electronics

Medical Devices

Wearable Devices

Others

### Major players covered

Cypress Semiconductor

Fujitsu

Texas Instruments

IBM

Infineon

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 Ferroelectric RAM product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ferroelectric RAM, with price, sales, revenue and global market share of Ferroelectric RAM from 2019 to 2024.

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

Chapter 4, the Ferroelectric RAM breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Ferroelectric RAM market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Ferroelectric RAM.

Chapter 14 and 15, to describe Ferroelectric RAM sales channel, distributors, customers, research findings and conclusion.

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