

Global Semiconductor Memory Market Size study & Forecast, by Type (Static Random-Access Memory, Magnetoresistive Random-Access Memory, Dynamic Random-Access Memory, Flash Read-Only Memory, Others), by Application (Consumer Electronics, IT & Telecommunication, Automotive, Industrial, Aerospace & Defence, Medical, Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/GA13265023BEEN.html>

Date: July 2023

Pages: 200

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

ID: GA13265023BEEN

Abstracts

Global Semiconductor Memory Market is valued at approximately USD 101.26 billion in 2022 and is anticipated to grow with a CAGR of more than 5.90% over the forecast period 2023-2030. Semiconductor memory refers to a type of electronic memory that is implemented using semiconductor devices, such as transistors. It is a crucial component of modern computing systems, including computers, smartphones, and other electronic devices. Semiconductor memory stores digital information in the form of binary data (0s and 1s) and provides fast access to this data for read and write operations. It is commonly used to store program instructions, data, and other information that needs to be accessed quickly by the central processing unit (CPU) of a computer. Moreover, the growing electronics market and increasing frontier technology market are anticipated as the market drivers. Furthermore, increasing data centre facilities and growing concerned towards automation emerged as growth opportunities in the market during the forecasted year 2023-2030.

According to India Brand Equity Foundation (IBEF) in 2023, the Indian electronics manufacturing industry is expected to reach a market size of USD 520 billion by 2025. The demand for electronic products is expected to rise to USD 400 billion by 2025, with

a 2.3-fold increase in the electronics system market, reaching USD 160 billion by FY25. Notably, IT/OA shows the highest CAGR at 54% in the Electronic System Design and Manufacturing (ESDM) sector. This reflects the strong growth potential and emerging opportunities in India's electronics manufacturing industry. According to United Nations Conference on Trade and Development (UNCTAD) in 2023, the frontier technology market is projected to experience significant growth by 2030, reaching an estimated market size of around USD 9,469 billion. This market encompasses advanced technologies such as the Internet of Things (IoT) and Artificial Intelligence (AI), which play crucial roles in driving the expansion of the global frontier technology sector. Specifically, the IoT and AI sectors are expected to contribute approximately USD 4,422 billion and USD 1,582 billion, respectively, accounting for 47% and 17% of the total market size. These substantial contributions highlight the substantial impact of these innovative and advanced technologies, which ultimately contribute to the overall growth and advancement of the industry. However, complex manufacturing processes and a limited supply of raw materials may hamper the growth of the market over the forecast period 2023-2030.

The key regions considered for the Global Semiconductor Memory Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific region dominates the semiconductor memory market due to several key factors. It boasts significant investments in data centers, particularly in countries such as India, Singapore, and Indonesia, driving the demand for memory solutions. The region's strong manufacturing ecosystem, with countries such as China, Japan, and South Korea, ensures cost-effective production and easy availability of raw materials. Additionally, the growing demand for consumer electronics, digitization efforts, technological advancements, and the presence of major industry players further solidify the Asia Pacific region's dominance in the semiconductor memory market. North America is the fastest-growing region in the semiconductor memory market due to increased investments in advanced technologies such as AI, ML, and IoT, a strong presence of leading technology companies, a robust research and development ecosystem, and substantial investments in data centers and cloud services.

Major market player included in this report are:

Integrated Silicon Solution Inc.

Micron Technology Inc.

Macronix International Co., Ltd

Samsung Electronics Co Ltd

SK Hynix Inc.

Taiwan Semiconductor Manufacturing Company Limited

Texas Instruments Inc.
Toshiba Corporation
Cypress Semiconductor Corporation
International Business Machines Corporation

Recent Developments in the Market:

In October 2021, Micron Technology, a memory manufacturer based in the United States, announced plans to invest over USD 150 billion globally in the next ten years. This investment focuses on advanced memory manufacturing, research, and development, with the possibility of expanding their fabrication facilities within the United States.

In December 2021, Micron Technology revealed an expanded business partnership with United Microelectronics Corporation (UMC), which enables Micron to ensure a stable supply for mobile, automotive, and crucial customers in the foreseeable future.

Global Semiconductor Memory Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Static Random-Access Memory
Magnetoresistive Random-Access Memory
Dynamic Random-Access Memory
Flash Read-Only Memory
Others

By Application:

Consumer Electronics
IT & Telecommunication
Automotive
Industrial
Aerospace & Defence
Medical
Others

By Region:

North America
U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Semiconductor Memory Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Semiconductor Memory Market, by Type, 2020-2030 (USD Billion)
 - 1.2.3. Semiconductor Memory Market, by Application, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL SEMICONDUCTOR MEMORY MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL SEMICONDUCTOR MEMORY MARKET DYNAMICS

- 3.1. Semiconductor Memory Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Growing Electronics Market
 - 3.1.1.2. Increasing Frontier Technology Market
 - 3.1.2. Market Challenges
 - 3.1.2.1. Complex Manufacturing Process
 - 3.1.2.2. Limited Supply of Raw Material
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Increasing Data Centre Facilities
 - 3.1.3.2. Growing Concern Towards Automation

CHAPTER 4. GLOBAL SEMICONDUCTOR MEMORY MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SEMICONDUCTOR MEMORY MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Semiconductor Memory Market by Type, Performance - Potential Analysis
- 5.3. Global Semiconductor Memory Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Semiconductor Memory Market, Sub Segment Analysis
 - 5.4.1. Static Random-Access Memory
 - 5.4.2. Magnetoresistive Random-Access Memory
 - 5.4.3. Dynamic Random-Access Memory
 - 5.4.4. Flash Read-Only Memory
 - 5.4.5. Others

CHAPTER 6. GLOBAL SEMICONDUCTOR MEMORY MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Semiconductor Memory Market by Application, Performance - Potential Analysis

6.3. Global Semiconductor Memory Market Estimates & Forecasts by Application
2020-2030 (USD Billion)

6.4. Semiconductor Memory Market, Sub Segment Analysis

- 6.4.1. Consumer Electronics
- 6.4.2. IT & Telecommunication
- 6.4.3. Automotive
- 6.4.4. Industrial
- 6.4.5. Aerospace & Defence
- 6.4.6. Medical
- 6.4.7. Others

CHAPTER 7. GLOBAL SEMICONDUCTOR MEMORY MARKET, REGIONAL ANALYSIS

7.1. Top Leading Countries

7.2. Top Emerging Countries

7.3. Semiconductor Memory Market, Regional Market Snapshot

7.4. North America Semiconductor Memory Market

7.4.1. U.S. Semiconductor Memory Market

7.4.1.1. Type breakdown estimates & forecasts, 2020-2030

7.4.1.2. Application breakdown estimates & forecasts, 2020-2030

7.4.2. Canada Semiconductor Memory Market

7.5. Europe Semiconductor Memory Market Snapshot

7.5.1. U.K. Semiconductor Memory Market

7.5.2. Germany Semiconductor Memory Market

7.5.3. France Semiconductor Memory Market

7.5.4. Spain Semiconductor Memory Market

7.5.5. Italy Semiconductor Memory Market

7.5.6. Rest of Europe Semiconductor Memory Market

7.6. Asia-Pacific Semiconductor Memory Market Snapshot

7.6.1. China Semiconductor Memory Market

7.6.2. India Semiconductor Memory Market

7.6.3. Japan Semiconductor Memory Market

7.6.4. Australia Semiconductor Memory Market

7.6.5. South Korea Semiconductor Memory Market

7.6.6. Rest of Asia Pacific Semiconductor Memory Market

7.7. Latin America Semiconductor Memory Market Snapshot

7.7.1. Brazil Semiconductor Memory Market

7.7.2. Mexico Semiconductor Memory Market

- 7.8. Middle East & Africa Semiconductor Memory Market
 - 7.8.1. Saudi Arabia Semiconductor Memory Market
 - 7.8.2. South Africa Semiconductor Memory Market
 - 7.8.3. Rest of Middle East & Africa Semiconductor Memory Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Company
 - 8.1.2. Company
 - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Integrated Silicon Solution Inc.
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Recent Developments
 - 8.3.2. Micron Technology Inc.
 - 8.3.3. Macronix International Co., Ltd
 - 8.3.4. Samsung Electronics Co Ltd
 - 8.3.5. SK Hynix Inc.
 - 8.3.6. Taiwan Semiconductor Manufacturing Company Limited d
 - 8.3.7. Texas Instruments Inc.
 - 8.3.8. Toshiba Corporation
 - 8.3.9. Cypress Semiconductor Corporation
 - 8.3.10. International Business Machines Corporation

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
- 9.2. Research Attributes
- 9.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Semiconductor Memory Market, report scope

TABLE 2. Global Semiconductor Memory Market estimates & forecasts by Region
2020-2030 (USD Billion)

TABLE 3. Global Semiconductor Memory Market estimates & forecasts by Type
2020-2030 (USD Billion)

TABLE 4. Global Semiconductor Memory Market estimates & forecasts by Application
2020-2030 (USD Billion)

TABLE 5. Global Semiconductor Memory Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 6. Global Semiconductor Memory Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 7. Global Semiconductor Memory Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 8. Global Semiconductor Memory Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 9. Global Semiconductor Memory Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 10. Global Semiconductor Memory Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 11. Global Semiconductor Memory Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 12. Global Semiconductor Memory Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 13. Global Semiconductor Memory Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 14. Global Semiconductor Memory Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 15. U.S. Semiconductor Memory Market estimates & forecasts, 2020-2030
(USD Billion)

TABLE 16. U.S. Semiconductor Memory Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 17. U.S. Semiconductor Memory Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 18. Canada Semiconductor Memory Market estimates & forecasts, 2020-2030
(USD Billion)

TABLE 19. Canada Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. Canada Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. UK Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. UK Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. UK Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. Germany Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. Germany Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. France Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. France Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. Italy Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. Italy Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Spain Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Spain Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. RoE Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. RoE Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Semiconductor Memory Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 39. China Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. China Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. India Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Brazil Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Mexico Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Mexico Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Mexico Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. RoLA Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 64. RoLA Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. RoLA Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Semiconductor Memory Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 67. South Africa Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. RoMEA Semiconductor Memory Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Semiconductor Memory Market

TABLE 70. List of primary sources, used in the study of global Semiconductor Memory Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures are dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Semiconductor Memory Market, research methodology
 - FIG 2. Global Semiconductor Memory Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Semiconductor Memory Market, key trends 2022
 - FIG 5. Global Semiconductor Memory Market, growth prospects 2023-2030
 - FIG 6. Global Semiconductor Memory Market, porters 5 force model
 - FIG 7. Global Semiconductor Memory Market, pest analysis
 - FIG 8. Global Semiconductor Memory Market, value chain analysis
 - FIG 9. Global Semiconductor Memory Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Semiconductor Memory Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Semiconductor Memory Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Semiconductor Memory Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Semiconductor Memory Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Semiconductor Memory Market, regional snapshot 2020 & 2030
 - FIG 15. North America Semiconductor Memory Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Semiconductor Memory Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia pacific Semiconductor Memory Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Semiconductor Memory Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Semiconductor Memory Market 2020 & 2030 (USD Billion)
- List of tables and figures are dummy in nature, final lists may vary in the final deliverable

I would like to order

Product name: Global Semiconductor Memory Market Size study & Forecast, by Type (Static Random-Access Memory, Magnetoresistive Random-Access Memory, Dynamic Random-Access Memory, Flash Read-Only Memory, Others), by Application (Consumer Electronics, IT & Telecommunication, Automotive, Industrial, Aerospace & Defence, Medical, Others) and Regional Analysis, 2023-2030

Product link: <https://marketpublishers.com/r/GA13265023BEEN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GA13265023BEEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970