

# Global Memory ICs Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Memory ICs market size is expected to reach \$ 256640 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

A memory IC is an integrated circuit made out of millions of capacitors and transistors that can store data or can be used to process code. Memory chips can hold memory either temporarily through random access memory (RAM), or permanently through read only memory (ROM). Read only memory contains permanently stored data that a processor can read but cannot modify. Memory chips comes in different sizes and shapes. Some can be connected directly while some need special drives. Memory chips are essential components in computer and electronic devices in which memory storage plays a key role.

With the rapid development of technologies such as big data, cloud computing, and the Internet of Things (IoT), the demand for data storage has surged. The growing demand for data storage and processing capabilities from enterprises and service providers has driven the demand for higher performance and larger storage capacity chips. At the same time, AI and machine learning require the processing and storage of large amounts of data, which places higher performance and capacity requirements on storage chips.

With the popularity of consumer electronic devices such as smartphones, tablets, and laptops, the demand for storage chips continues to grow. In particular, the requirements for storage performance of high-end smartphones and game consoles continue to increase, and the demand for high-performance and high-capacity storage of gaming devices (such as game consoles, PCs, and virtual reality devices) is increasing, driving the market demand for solid-state drives (SSDs) and memory chips.

With the development of autonomous driving, Internet of Vehicles, and new energy vehicles, the improvement of the level of intelligent driving technology requires storage chips to have faster data processing speeds and larger data storage. Therefore, the automotive industry's demand for memory is increasing day by day, becoming an important emerging growth point in storage chips and an important force in determining the market structure. The realization of automotive intelligence requires more environmental perception. As sensors and more MCUs are integrated into the system, the data and program storage of each functional unit of automotive electronics requires higher-performance flash memory, resulting in a massive increase in the demand for non-volatile memory devices.

**Price war:** As market competition intensifies, memory chip manufacturers may fall into price competition, especially in the low-end market. Price wars may lead to lower profit margins and affect the long-term profitability of enterprises.

**Rapid technology iteration:** Memory chip technology is updated rapidly, and manufacturers need to continue to increase R&D investment to keep up with technological changes. If they fail to adapt to technological advances in a timely manner, they may lose market share.

**Fluctuations in raw material supply.** The production of memory chips depends on specific raw materials, such as semiconductor-grade silicon, chemicals, and rare metals. Global raw material price fluctuations, supply chain disruptions, or natural disasters may lead to increased production costs or insufficient supply.

**Insufficient production capacity.** The production cycle of memory chips is long, requiring advanced production equipment and processes. Any failure of production facilities or capacity bottlenecks will affect supply capacity and thus market share.

Despite the continuous innovation of memory chip technology, it still faces technical bottlenecks in terms of high capacity, high speed, and high reliability. For example, the research and development of new technologies such as 3D NAND and DDR5 is difficult and costly, and the technical maturity and commercialization progress are slow.

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

This report is a detailed and comprehensive analysis of the world market for Memory

ICs 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 Memory ICs that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Memory ICs total production and demand, 2021-2032, (K Pcs)

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

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

Global Memory ICs consumption by region & country, CAGR, 2021-2032 & (K Pcs)

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

Global Memory ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Memory ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Memory ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Memory ICs 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, SK Hynix, Micron, Kioxia, Western Digital, Winbond, Nanya, Macronix, GigaDevice, YMTC, 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 Memory ICs market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 Memory ICs Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Memory ICs Market, Segmentation by Type:**

DRAM

NAND

ROM

Other

## Global Memory ICs Market, Segmentation by Application:

Mobile Devices

Computers

Servers

Automobiles

Other

## Companies Profiled:

Samsung

SK Hynix

Micron

Kioxia

Western Digital

Winbond

Nanya

Macronix

GigaDevice

YMTC

## Key Questions Answered:

1. How big is the global Memory ICs market?
2. What is the demand of the global Memory ICs market?

3. What is the year over year growth of the global Memory ICs market?
4. What is the production and production value of the global Memory ICs market?
5. Who are the key producers in the global Memory ICs market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Memory ICs Introduction
- 1.2 World Memory ICs Supply & Forecast
  - 1.2.1 World Memory ICs Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Memory ICs Production (2021-2032)
  - 1.2.3 World Memory ICs Pricing Trends (2021-2032)
- 1.3 World Memory ICs Production by Region (Based on Production Site)
  - 1.3.1 World Memory ICs Production Value by Region (2021-2032)
  - 1.3.2 World Memory ICs Production by Region (2021-2032)
  - 1.3.3 World Memory ICs Average Price by Region (2021-2032)
  - 1.3.4 North America Memory ICs Production (2021-2032)
  - 1.3.5 Europe Memory ICs Production (2021-2032)
  - 1.3.6 China Memory ICs Production (2021-2032)
  - 1.3.7 Japan Memory ICs Production (2021-2032)
  - 1.3.8 South Korea Memory ICs Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Memory ICs Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Memory ICs Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Memory ICs Demand (2021-2032)
- 2.2 World Memory ICs Consumption by Region
  - 2.2.1 World Memory ICs Consumption by Region (2021-2026)
  - 2.2.2 World Memory ICs Consumption Forecast by Region (2027-2032)
- 2.3 United States Memory ICs Consumption (2021-2032)
- 2.4 China Memory ICs Consumption (2021-2032)
- 2.5 Europe Memory ICs Consumption (2021-2032)
- 2.6 Japan Memory ICs Consumption (2021-2032)
- 2.7 South Korea Memory ICs Consumption (2021-2032)
- 2.8 ASEAN Memory ICs Consumption (2021-2032)
- 2.9 India Memory ICs Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Memory ICs Production Value by Manufacturer (2021-2026)
- 3.2 World Memory ICs Production by Manufacturer (2021-2026)
- 3.3 World Memory ICs Average Price by Manufacturer (2021-2026)
- 3.4 Memory ICs Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Memory ICs Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Memory ICs in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Memory ICs in 2025
- 3.6 Memory ICs Market: Overall Company Footprint Analysis
  - 3.6.1 Memory ICs Market: Region Footprint
  - 3.6.2 Memory ICs Market: Company Product Type Footprint
  - 3.6.3 Memory ICs Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Memory ICs Production Value Comparison
  - 4.1.1 United States VS China: Memory ICs Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Memory ICs Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Memory ICs Production Comparison
  - 4.2.1 United States VS China: Memory ICs Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Memory ICs Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Memory ICs Consumption Comparison
  - 4.3.1 United States VS China: Memory ICs Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Memory ICs Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Memory ICs Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Memory ICs Manufacturers, Headquarters and Production Site (States, Country)

- 4.4.2 United States Based Manufacturers Memory ICs Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers Memory ICs Production (2021-2026)
- 4.5 China Based Memory ICs Manufacturers and Market Share
  - 4.5.1 China Based Memory ICs Manufacturers, Headquarters and Production Site (Province, Country)
  - 4.5.2 China Based Manufacturers Memory ICs Production Value (2021-2026)
  - 4.5.3 China Based Manufacturers Memory ICs Production (2021-2026)
- 4.6 Rest of World Based Memory ICs Manufacturers and Market Share, 2021-2026
  - 4.6.1 Rest of World Based Memory ICs Manufacturers, Headquarters and Production Site (State, Country)
  - 4.6.2 Rest of World Based Manufacturers Memory ICs Production Value (2021-2026)
  - 4.6.3 Rest of World Based Manufacturers Memory ICs Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

- 5.1 World Memory ICs Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
  - 5.2.1 DRAM
  - 5.2.2 NAND
  - 5.2.3 ROM
  - 5.2.4 Other
- 5.3 Market Segment by Type
  - 5.3.1 World Memory ICs Production by Type (2021-2032)
  - 5.3.2 World Memory ICs Production Value by Type (2021-2032)
  - 5.3.3 World Memory ICs Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY APPLICATION**

- 6.1 World Memory ICs Market Size Overview by Application: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Application
  - 6.2.1 Mobile Devices
  - 6.2.2 Computers
  - 6.2.3 Servers
  - 6.2.4 Automobiles
  - 6.2.5 Other
- 6.3 Market Segment by Application
  - 6.3.1 World Memory ICs Production by Application (2021-2032)
  - 6.3.2 World Memory ICs Production Value by Application (2021-2032)
  - 6.3.3 World Memory ICs Average Price by Application (2021-2032)

## 7 COMPANY PROFILES

### 7.1 Samsung

7.1.1 Samsung Details

7.1.2 Samsung Major Business

7.1.3 Samsung Memory ICs Product and Services

7.1.4 Samsung Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.1.5 Samsung Recent Developments/Updates

7.1.6 Samsung Competitive Strengths & Weaknesses

### 7.2 SK Hynix

7.2.1 SK Hynix Details

7.2.2 SK Hynix Major Business

7.2.3 SK Hynix Memory ICs Product and Services

7.2.4 SK Hynix Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.2.5 SK Hynix Recent Developments/Updates

7.2.6 SK Hynix Competitive Strengths & Weaknesses

### 7.3 Micron

7.3.1 Micron Details

7.3.2 Micron Major Business

7.3.3 Micron Memory ICs Product and Services

7.3.4 Micron Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.3.5 Micron Recent Developments/Updates

7.3.6 Micron Competitive Strengths & Weaknesses

### 7.4 Kioxia

7.4.1 Kioxia Details

7.4.2 Kioxia Major Business

7.4.3 Kioxia Memory ICs Product and Services

7.4.4 Kioxia Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.4.5 Kioxia Recent Developments/Updates

7.4.6 Kioxia Competitive Strengths & Weaknesses

### 7.5 Western Digital

7.5.1 Western Digital Details

7.5.2 Western Digital Major Business

7.5.3 Western Digital Memory ICs Product and Services

7.5.4 Western Digital Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.5.5 Western Digital Recent Developments/Updates

7.5.6 Western Digital Competitive Strengths & Weaknesses

7.6 Winbond

7.6.1 Winbond Details

7.6.2 Winbond Major Business

7.6.3 Winbond Memory ICs Product and Services

7.6.4 Winbond Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.6.5 Winbond Recent Developments/Updates

7.6.6 Winbond Competitive Strengths & Weaknesses

7.7 Nanya

7.7.1 Nanya Details

7.7.2 Nanya Major Business

7.7.3 Nanya Memory ICs Product and Services

7.7.4 Nanya Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.7.5 Nanya Recent Developments/Updates

7.7.6 Nanya Competitive Strengths & Weaknesses

7.8 Macronix

7.8.1 Macronix Details

7.8.2 Macronix Major Business

7.8.3 Macronix Memory ICs Product and Services

7.8.4 Macronix Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.8.5 Macronix Recent Developments/Updates

7.8.6 Macronix Competitive Strengths & Weaknesses

7.9 GigaDevice

7.9.1 GigaDevice Details

7.9.2 GigaDevice Major Business

7.9.3 GigaDevice Memory ICs Product and Services

7.9.4 GigaDevice Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.9.5 GigaDevice Recent Developments/Updates

7.9.6 GigaDevice Competitive Strengths & Weaknesses

7.10 YMTC

7.10.1 YMTC Details

7.10.2 YMTC Major Business

- 7.10.3 YMTC Memory ICs Product and Services
- 7.10.4 YMTC Memory ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.10.5 YMTC Recent Developments/Updates
- 7.10.6 YMTC Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 Memory ICs Industry Chain
- 8.2 Memory ICs Upstream Analysis
  - 8.2.1 Memory ICs Core Raw Materials
  - 8.2.2 Main Manufacturers of Memory ICs Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Memory ICs Production Mode
- 8.6 Memory ICs Procurement Model
- 8.7 Memory ICs Industry Sales Model and Sales Channels
  - 8.7.1 Memory ICs Sales Model
  - 8.7.2 Memory ICs Typical Distributors

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World Memory ICs Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Memory ICs Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Memory ICs Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Memory ICs Production Value Market Share by Region (2021-2026)
- Table 5. World Memory ICs Production Value Market Share by Region (2027-2032)
- Table 6. World Memory ICs Production by Region (2021-2026) & (K Pcs)
- Table 7. World Memory ICs Production by Region (2027-2032) & (K Pcs)
- Table 8. World Memory ICs Production Market Share by Region (2021-2026)
- Table 9. World Memory ICs Production Market Share by Region (2027-2032)
- Table 10. World Memory ICs Average Price by Region (2021-2026) & (US\$/Pcs)
- Table 11. World Memory ICs Average Price by Region (2027-2032) & (US\$/Pcs)
- Table 12. Memory ICs Major Market Trends
- Table 13. World Memory ICs Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)
- Table 14. World Memory ICs Consumption by Region (2021-2026) & (K Pcs)
- Table 15. World Memory ICs Consumption Forecast by Region (2027-2032) & (K Pcs)
- Table 16. World Memory ICs Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Memory ICs Producers in 2025
- Table 18. World Memory ICs Production by Manufacturer (2021-2026) & (K Pcs)
- Table 19. Production Market Share of Key Memory ICs Producers in 2025
- Table 20. World Memory ICs Average Price by Manufacturer (2021-2026) & (US\$/Pcs)
- Table 21. Global Memory ICs Company Evaluation Quadrant
- Table 22. World Memory ICs Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Memory ICs Production Site of Key Manufacturer
- Table 24. Memory ICs Market: Company Product Type Footprint
- Table 25. Memory ICs Market: Company Product Application Footprint
- Table 26. Memory ICs Competitive Factors
- Table 27. Memory ICs New Entrant and Capacity Expansion Plans
- Table 28. Memory ICs Mergers & Acquisitions Activity
- Table 29. United States VS China Memory ICs Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Memory ICs Production Comparison, (2021 & 2025 &

2032) & (K Pcs)

Table 31. United States VS China Memory ICs Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Memory ICs Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Memory ICs Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Memory ICs Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Memory ICs Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Memory ICs Production Market Share (2021-2026)

Table 37. China Based Memory ICs Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Memory ICs Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Memory ICs Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Memory ICs Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Memory ICs Production Market Share (2021-2026)

Table 42. Rest of World Based Memory ICs Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Memory ICs Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Memory ICs Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Memory ICs Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Memory ICs Production Market Share (2021-2026)

Table 47. World Memory ICs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Memory ICs Production by Type (2021-2026) & (K Pcs)

Table 49. World Memory ICs Production by Type (2027-2032) & (K Pcs)

Table 50. World Memory ICs Production Value by Type (2021-2026) & (USD Million)

Table 51. World Memory ICs Production Value by Type (2027-2032) & (USD Million)

Table 52. World Memory ICs Average Price by Type (2021-2026) & (US\$/Pcs)

- Table 53. World Memory ICs Average Price by Type (2027-2032) & (US\$/Pcs)
- Table 54. World Memory ICs Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 55. World Memory ICs Production by Application (2021-2026) & (K Pcs)
- Table 56. World Memory ICs Production by Application (2027-2032) & (K Pcs)
- Table 57. World Memory ICs Production Value by Application (2021-2026) & (USD Million)
- Table 58. World Memory ICs Production Value by Application (2027-2032) & (USD Million)
- Table 59. World Memory ICs Average Price by Application (2021-2026) & (US\$/Pcs)
- Table 60. World Memory ICs Average Price by Application (2027-2032) & (US\$/Pcs)
- Table 61. Samsung Basic Information, Manufacturing Base and Competitors
- Table 62. Samsung Major Business
- Table 63. Samsung Memory ICs Product and Services
- Table 64. Samsung Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 65. Samsung Recent Developments/Updates
- Table 66. Samsung Competitive Strengths & Weaknesses
- Table 67. SK Hynix Basic Information, Manufacturing Base and Competitors
- Table 68. SK Hynix Major Business
- Table 69. SK Hynix Memory ICs Product and Services
- Table 70. SK Hynix Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 71. SK Hynix Recent Developments/Updates
- Table 72. SK Hynix Competitive Strengths & Weaknesses
- Table 73. Micron Basic Information, Manufacturing Base and Competitors
- Table 74. Micron Major Business
- Table 75. Micron Memory ICs Product and Services
- Table 76. Micron Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 77. Micron Recent Developments/Updates
- Table 78. Micron Competitive Strengths & Weaknesses
- Table 79. Kioxia Basic Information, Manufacturing Base and Competitors
- Table 80. Kioxia Major Business
- Table 81. Kioxia Memory ICs Product and Services
- Table 82. Kioxia Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 83. Kioxia Recent Developments/Updates
- Table 84. Kioxia Competitive Strengths & Weaknesses

Table 85. Western Digital Basic Information, Manufacturing Base and Competitors

Table 86. Western Digital Major Business

Table 87. Western Digital Memory ICs Product and Services

Table 88. Western Digital Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. Western Digital Recent Developments/Updates

Table 90. Western Digital Competitive Strengths & Weaknesses

Table 91. Winbond Basic Information, Manufacturing Base and Competitors

Table 92. Winbond Major Business

Table 93. Winbond Memory ICs Product and Services

Table 94. Winbond Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Winbond Recent Developments/Updates

Table 96. Winbond Competitive Strengths & Weaknesses

Table 97. Nanya Basic Information, Manufacturing Base and Competitors

Table 98. Nanya Major Business

Table 99. Nanya Memory ICs Product and Services

Table 100. Nanya Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 101. Nanya Recent Developments/Updates

Table 102. Nanya Competitive Strengths & Weaknesses

Table 103. Macronix Basic Information, Manufacturing Base and Competitors

Table 104. Macronix Major Business

Table 105. Macronix Memory ICs Product and Services

Table 106. Macronix Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 107. Macronix Recent Developments/Updates

Table 108. Macronix Competitive Strengths & Weaknesses

Table 109. GigaDevice Basic Information, Manufacturing Base and Competitors

Table 110. GigaDevice Major Business

Table 111. GigaDevice Memory ICs Product and Services

Table 112. GigaDevice Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 113. GigaDevice Recent Developments/Updates

Table 114. GigaDevice Competitive Strengths & Weaknesses

Table 115. YMTC Basic Information, Manufacturing Base and Competitors

Table 116. YMTC Major Business

Table 117. YMTC Memory ICs Product and Services

Table 118. YMTC Memory ICs Production (K Pcs), Price (US\$/Pcs), Production Value

(USD Million), Gross Margin and Market Share (2021-2026)

Table 119. YMTC Recent Developments/Updates

Table 120. YMTC Competitive Strengths & Weaknesses

Table 121. Global Key Players of Memory ICs Upstream (Raw Materials)

Table 122. Global Memory ICs Typical Customers

Table 123. Memory ICs Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Memory ICs Picture

Figure 2. World Memory ICs Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Memory ICs Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Memory ICs Production (2021-2032) & (K Pcs)

Figure 5. World Memory ICs Average Price (2021-2032) & (US\$/Pcs)

Figure 6. World Memory ICs Production Value Market Share by Region (2021-2032)

Figure 7. World Memory ICs Production Market Share by Region (2021-2032)

Figure 8. North America Memory ICs Production (2021-2032) & (K Pcs)

Figure 9. Europe Memory ICs Production (2021-2032) & (K Pcs)

Figure 10. China Memory ICs Production (2021-2032) & (K Pcs)

Figure 11. Japan Memory ICs Production (2021-2032) & (K Pcs)

Figure 12. South Korea Memory ICs Production (2021-2032) & (K Pcs)

Figure 13. Memory ICs Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Memory ICs Consumption (2021-2032) & (K Pcs)

Figure 16. World Memory ICs Consumption Market Share by Region (2021-2032)

Figure 17. United States Memory ICs Consumption (2021-2032) & (K Pcs)

Figure 18. China Memory ICs Consumption (2021-2032) & (K Pcs)

Figure 19. Europe Memory ICs Consumption (2021-2032) & (K Pcs)

Figure 20. Japan Memory ICs Consumption (2021-2032) & (K Pcs)

Figure 21. South Korea Memory ICs Consumption (2021-2032) & (K Pcs)

Figure 22. ASEAN Memory ICs Consumption (2021-2032) & (K Pcs)

Figure 23. India Memory ICs Consumption (2021-2032) & (K Pcs)

Figure 24. Producer Shipments of Memory ICs by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Memory ICs Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Memory ICs Markets in 2025

Figure 27. United States VS China: Memory ICs Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Memory ICs Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Memory ICs Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Memory ICs Production Market Share 2025

Figure 31. China Based Manufacturers Memory ICs Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Memory ICs Production Market Share 2025

Figure 33. World Memory ICs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Memory ICs Production Value Market Share by Type in 2025

Figure 35. DRAM

Figure 36. NAND

Figure 37. ROM

Figure 38. Other

Figure 39. World Memory ICs Production Market Share by Type (2021-2032)

Figure 40. World Memory ICs Production Value Market Share by Type (2021-2032)

Figure 41. World Memory ICs Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 42. World Memory ICs Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 43. World Memory ICs Production Value Market Share by Application in 2025

Figure 44. Mobile Devices

Figure 45. Computers

Figure 46. Servers

Figure 47. Automobiles

Figure 48. Other

Figure 49. World Memory ICs Production Market Share by Application (2021-2032)

Figure 50. World Memory ICs Production Value Market Share by Application (2021-2032)

Figure 51. World Memory ICs Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 52. Memory ICs Industry Chain

Figure 53. Memory ICs Procurement Model

Figure 54. Memory ICs Sales Model

Figure 55. Memory ICs Sales Channels, Direct Sales, and Distribution

Figure 56. Methodology

Figure 57. Research Process and Data Source

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