

Global NAND Flash Memory 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 NAND Flash Memory market size was valued at USD 58060 million in 2023 and is forecast to a readjusted size of USD 117000 million by 2030 with a CAGR of 10.5% during review period.

NAND flash architecture was introduced by Toshiba in 1989. These memories are accessed much like block devices, such as hard disks. Each block consists of a number of pages. The pages are typically 512 or 2,048 or 4,096 bytes in size. Associated with each page are a few bytes (typically 1/32 of the data size) that can be used for storage of an error correcting code (ECC) checksum.

Samsung dominated the market in 2019, with a market share of 32.9%, followed by Kioxia and WDC, which was 18.5% and 14.4% respectively. Market concentration rate of Top 5 is 90%.

Four main manufacturing markets for NAND Flash Memory are South Korea, Japan, China and United States. These four areas share similar growth rate, which is 11% during the forecasting 5 years. South Korea takes up the largest market, which was 34.2% in 2019. Japan ranks the second, producing 33% of the global NAND.

In 2019, the biggest yield was TLC NAND (60%), while QLC NAND is expected to grow at the highest rate of all types of NANDs.

The main application of NAND Flash Memory is Smartphone (35%), following up by SSD (30%) and PC (12%).

The Global Info Research report includes an overview of the development of the NAND Flash Memory industry chain, the market status of PC (TLC NAND, MLC NAND), SSD (TLC NAND, MLC NAND), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of NAND Flash Memory.

Regionally, the report analyzes the NAND Flash Memory 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 NAND Flash Memory market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the NAND Flash Memory 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 NAND Flash Memory 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 (M GB), revenue generated, and market share of different by Type (e.g., TLC NAND, MLC NAND).

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 NAND Flash Memory market.

Regional Analysis: The report involves examining the NAND Flash Memory 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 NAND Flash Memory market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to NAND Flash Memory:

Company Analysis: Report covers individual NAND Flash Memory 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 NAND Flash Memory. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (PC, SSD).

Technology Analysis: Report covers specific technologies relevant to NAND Flash Memory. It assesses the current state, advancements, and potential future developments in NAND Flash Memory areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the NAND Flash Memory 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

NAND Flash Memory 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

TLC NAND

MLC NAND

SLC NAND

QLC NAND

Market segment by Application

PC

SSD

Consumer Electronics

Others

Major players covered

Samsung

Kioxia

WDC

Micron

SK Hynix

Intel

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 NAND Flash Memory product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the NAND Flash Memory 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 NAND Flash Memory 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 NAND Flash Memory.

Chapter 14 and 15, to describe NAND Flash Memory sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of NAND Flash Memory

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global NAND Flash Memory Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 TLC NAND

1.3.3 MLC NAND

1.3.4 SLC NAND

1.3.5 QLC NAND

1.4 Market Analysis by Application

1.4.1 Overview: Global NAND Flash Memory Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 PC

1.4.3 SSD

1.4.4 Consumer Electronics

1.4.5 Others

1.5 Global NAND Flash Memory Market Size & Forecast

1.5.1 Global NAND Flash Memory Consumption Value (2019 & 2023 & 2030)

1.5.2 Global NAND Flash Memory Sales Quantity (2019-2030)

1.5.3 Global NAND Flash Memory Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 Samsung

2.1.1 Samsung Details

2.1.2 Samsung Major Business

2.1.3 Samsung NAND Flash Memory Product and Services

2.1.4 Samsung NAND Flash Memory Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Samsung Recent Developments/Updates

2.2 Kioxia

2.2.1 Kioxia Details

2.2.2 Kioxia Major Business

2.2.3 Kioxia NAND Flash Memory Product and Services

2.2.4 Kioxia NAND Flash Memory Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2019-2024)

2.2.5 Kioxia Recent Developments/Updates

2.3 WDC

2.3.1 WDC Details

2.3.2 WDC Major Business

2.3.3 WDC NAND Flash Memory Product and Services

2.3.4 WDC NAND Flash Memory Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2019-2024)

2.3.5 WDC Recent Developments/Updates

2.4 Micron

2.4.1 Micron Details

2.4.2 Micron Major Business

2.4.3 Micron NAND Flash Memory Product and Services

2.4.4 Micron NAND Flash Memory Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2019-2024)

2.4.5 Micron Recent Developments/Updates

2.5 SK Hynix

2.5.1 SK Hynix Details

2.5.2 SK Hynix Major Business

2.5.3 SK Hynix NAND Flash Memory Product and Services

2.5.4 SK Hynix NAND Flash Memory Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2019-2024)

2.5.5 SK Hynix Recent Developments/Updates

2.6 Intel

2.6.1 Intel Details

2.6.2 Intel Major Business

2.6.3 Intel NAND Flash Memory Product and Services

2.6.4 Intel NAND Flash Memory Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2019-2024)

2.6.5 Intel Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: NAND FLASH MEMORY BY MANUFACTURER

3.1 Global NAND Flash Memory Sales Quantity by Manufacturer (2019-2024)

3.2 Global NAND Flash Memory Revenue by Manufacturer (2019-2024)

3.3 Global NAND Flash Memory Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of NAND Flash Memory by Manufacturer Revenue (\$MM) and Market Share (%): 2023

- 3.4.2 Top 3 NAND Flash Memory Manufacturer Market Share in 2023
- 3.4.2 Top 6 NAND Flash Memory Manufacturer Market Share in 2023
- 3.5 NAND Flash Memory Market: Overall Company Footprint Analysis
 - 3.5.1 NAND Flash Memory Market: Region Footprint
 - 3.5.2 NAND Flash Memory Market: Company Product Type Footprint
 - 3.5.3 NAND Flash Memory Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global NAND Flash Memory Market Size by Region
 - 4.1.1 Global NAND Flash Memory Sales Quantity by Region (2019-2030)
 - 4.1.2 Global NAND Flash Memory Consumption Value by Region (2019-2030)
 - 4.1.3 Global NAND Flash Memory Average Price by Region (2019-2030)
- 4.2 North America NAND Flash Memory Consumption Value (2019-2030)
- 4.3 Europe NAND Flash Memory Consumption Value (2019-2030)
- 4.4 Asia-Pacific NAND Flash Memory Consumption Value (2019-2030)
- 4.5 South America NAND Flash Memory Consumption Value (2019-2030)
- 4.6 Middle East and Africa NAND Flash Memory Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global NAND Flash Memory Sales Quantity by Type (2019-2030)
- 5.2 Global NAND Flash Memory Consumption Value by Type (2019-2030)
- 5.3 Global NAND Flash Memory Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global NAND Flash Memory Sales Quantity by Application (2019-2030)
- 6.2 Global NAND Flash Memory Consumption Value by Application (2019-2030)
- 6.3 Global NAND Flash Memory Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America NAND Flash Memory Sales Quantity by Type (2019-2030)
- 7.2 North America NAND Flash Memory Sales Quantity by Application (2019-2030)
- 7.3 North America NAND Flash Memory Market Size by Country
 - 7.3.1 North America NAND Flash Memory Sales Quantity by Country (2019-2030)

7.3.2 North America NAND Flash Memory Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe NAND Flash Memory Sales Quantity by Type (2019-2030)

8.2 Europe NAND Flash Memory Sales Quantity by Application (2019-2030)

8.3 Europe NAND Flash Memory Market Size by Country

8.3.1 Europe NAND Flash Memory Sales Quantity by Country (2019-2030)

8.3.2 Europe NAND Flash Memory Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific NAND Flash Memory Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific NAND Flash Memory Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific NAND Flash Memory Market Size by Region

9.3.1 Asia-Pacific NAND Flash Memory Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific NAND Flash Memory Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America NAND Flash Memory Sales Quantity by Type (2019-2030)

10.2 South America NAND Flash Memory Sales Quantity by Application (2019-2030)

10.3 South America NAND Flash Memory Market Size by Country

10.3.1 South America NAND Flash Memory Sales Quantity by Country (2019-2030)

10.3.2 South America NAND Flash Memory Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa NAND Flash Memory Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa NAND Flash Memory Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa NAND Flash Memory Market Size by Country

11.3.1 Middle East & Africa NAND Flash Memory Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa NAND Flash Memory Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

12.1 NAND Flash Memory Market Drivers

12.2 NAND Flash Memory Market Restraints

12.3 NAND Flash Memory Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of NAND Flash Memory and Key Manufacturers

13.2 Manufacturing Costs Percentage of NAND Flash Memory

13.3 NAND Flash Memory Production Process

13.4 NAND Flash Memory Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 NAND Flash Memory Typical Distributors

14.3 NAND Flash Memory Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global NAND Flash Memory Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global NAND Flash Memory Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Samsung Basic Information, Manufacturing Base and Competitors

Table 4. Samsung Major Business

Table 5. Samsung NAND Flash Memory Product and Services

Table 6. Samsung NAND Flash Memory Sales Quantity (M GB), Average Price (USD/GB), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Samsung Recent Developments/Updates

Table 8. Kioxia Basic Information, Manufacturing Base and Competitors

Table 9. Kioxia Major Business

Table 10. Kioxia NAND Flash Memory Product and Services

Table 11. Kioxia NAND Flash Memory Sales Quantity (M GB), Average Price (USD/GB), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Kioxia Recent Developments/Updates

Table 13. WDC Basic Information, Manufacturing Base and Competitors

Table 14. WDC Major Business

Table 15. WDC NAND Flash Memory Product and Services

Table 16. WDC NAND Flash Memory Sales Quantity (M GB), Average Price (USD/GB), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. WDC Recent Developments/Updates

Table 18. Micron Basic Information, Manufacturing Base and Competitors

Table 19. Micron Major Business

Table 20. Micron NAND Flash Memory Product and Services

Table 21. Micron NAND Flash Memory Sales Quantity (M GB), Average Price (USD/GB), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Micron Recent Developments/Updates

Table 23. SK Hynix Basic Information, Manufacturing Base and Competitors

Table 24. SK Hynix Major Business

Table 25. SK Hynix NAND Flash Memory Product and Services

Table 26. SK Hynix NAND Flash Memory Sales Quantity (M GB), Average Price (USD/GB), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. SK Hynix Recent Developments/Updates

Table 28. Intel Basic Information, Manufacturing Base and Competitors

Table 29. Intel Major Business

Table 30. Intel NAND Flash Memory Product and Services

Table 31. Intel NAND Flash Memory Sales Quantity (M GB), Average Price (USD/GB), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Intel Recent Developments/Updates

Table 33. Global NAND Flash Memory Sales Quantity by Manufacturer (2019-2024) & (M GB)

Table 34. Global NAND Flash Memory Revenue by Manufacturer (2019-2024) & (USD Million)

Table 35. Global NAND Flash Memory Average Price by Manufacturer (2019-2024) & (USD/GB)

Table 36. Market Position of Manufacturers in NAND Flash Memory, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 37. Head Office and NAND Flash Memory Production Site of Key Manufacturer

Table 38. NAND Flash Memory Market: Company Product Type Footprint

Table 39. NAND Flash Memory Market: Company Product Application Footprint

Table 40. NAND Flash Memory New Market Entrants and Barriers to Market Entry

Table 41. NAND Flash Memory Mergers, Acquisition, Agreements, and Collaborations

Table 42. Global NAND Flash Memory Sales Quantity by Region (2019-2024) & (M GB)

Table 43. Global NAND Flash Memory Sales Quantity by Region (2025-2030) & (M GB)

Table 44. Global NAND Flash Memory Consumption Value by Region (2019-2024) & (USD Million)

Table 45. Global NAND Flash Memory Consumption Value by Region (2025-2030) & (USD Million)

Table 46. Global NAND Flash Memory Average Price by Region (2019-2024) & (USD/GB)

Table 47. Global NAND Flash Memory Average Price by Region (2025-2030) & (USD/GB)

Table 48. Global NAND Flash Memory Sales Quantity by Type (2019-2024) & (M GB)

Table 49. Global NAND Flash Memory Sales Quantity by Type (2025-2030) & (M GB)

Table 50. Global NAND Flash Memory Consumption Value by Type (2019-2024) & (USD Million)

Table 51. Global NAND Flash Memory Consumption Value by Type (2025-2030) & (USD Million)

Table 52. Global NAND Flash Memory Average Price by Type (2019-2024) & (USD/GB)

Table 53. Global NAND Flash Memory Average Price by Type (2025-2030) & (USD/GB)

Table 54. Global NAND Flash Memory Sales Quantity by Application (2019-2024) & (M GB)

Table 55. Global NAND Flash Memory Sales Quantity by Application (2025-2030) & (M GB)

GB)

Table 56. Global NAND Flash Memory Consumption Value by Application (2019-2024) & (USD Million)

Table 57. Global NAND Flash Memory Consumption Value by Application (2025-2030) & (USD Million)

Table 58. Global NAND Flash Memory Average Price by Application (2019-2024) & (USD/GB)

Table 59. Global NAND Flash Memory Average Price by Application (2025-2030) & (USD/GB)

Table 60. North America NAND Flash Memory Sales Quantity by Type (2019-2024) & (M GB)

Table 61. North America NAND Flash Memory Sales Quantity by Type (2025-2030) & (M GB)

Table 62. North America NAND Flash Memory Sales Quantity by Application (2019-2024) & (M GB)

Table 63. North America NAND Flash Memory Sales Quantity by Application (2025-2030) & (M GB)

Table 64. North America NAND Flash Memory Sales Quantity by Country (2019-2024) & (M GB)

Table 65. North America NAND Flash Memory Sales Quantity by Country (2025-2030) & (M GB)

Table 66. North America NAND Flash Memory Consumption Value by Country (2019-2024) & (USD Million)

Table 67. North America NAND Flash Memory Consumption Value by Country (2025-2030) & (USD Million)

Table 68. Europe NAND Flash Memory Sales Quantity by Type (2019-2024) & (M GB)

Table 69. Europe NAND Flash Memory Sales Quantity by Type (2025-2030) & (M GB)

Table 70. Europe NAND Flash Memory Sales Quantity by Application (2019-2024) & (M GB)

Table 71. Europe NAND Flash Memory Sales Quantity by Application (2025-2030) & (M GB)

Table 72. Europe NAND Flash Memory Sales Quantity by Country (2019-2024) & (M GB)

Table 73. Europe NAND Flash Memory Sales Quantity by Country (2025-2030) & (M GB)

Table 74. Europe NAND Flash Memory Consumption Value by Country (2019-2024) & (USD Million)

Table 75. Europe NAND Flash Memory Consumption Value by Country (2025-2030) & (USD Million)

Table 76. Asia-Pacific NAND Flash Memory Sales Quantity by Type (2019-2024) & (M GB)

Table 77. Asia-Pacific NAND Flash Memory Sales Quantity by Type (2025-2030) & (M GB)

Table 78. Asia-Pacific NAND Flash Memory Sales Quantity by Application (2019-2024) & (M GB)

Table 79. Asia-Pacific NAND Flash Memory Sales Quantity by Application (2025-2030) & (M GB)

Table 80. Asia-Pacific NAND Flash Memory Sales Quantity by Region (2019-2024) & (M GB)

Table 81. Asia-Pacific NAND Flash Memory Sales Quantity by Region (2025-2030) & (M GB)

Table 82. Asia-Pacific NAND Flash Memory Consumption Value by Region (2019-2024) & (USD Million)

Table 83. Asia-Pacific NAND Flash Memory Consumption Value by Region (2025-2030) & (USD Million)

Table 84. South America NAND Flash Memory Sales Quantity by Type (2019-2024) & (M GB)

Table 85. South America NAND Flash Memory Sales Quantity by Type (2025-2030) & (M GB)

Table 86. South America NAND Flash Memory Sales Quantity by Application (2019-2024) & (M GB)

Table 87. South America NAND Flash Memory Sales Quantity by Application (2025-2030) & (M GB)

Table 88. South America NAND Flash Memory Sales Quantity by Country (2019-2024) & (M GB)

Table 89. South America NAND Flash Memory Sales Quantity by Country (2025-2030) & (M GB)

Table 90. South America NAND Flash Memory Consumption Value by Country (2019-2024) & (USD Million)

Table 91. South America NAND Flash Memory Consumption Value by Country (2025-2030) & (USD Million)

Table 92. Middle East & Africa NAND Flash Memory Sales Quantity by Type (2019-2024) & (M GB)

Table 93. Middle East & Africa NAND Flash Memory Sales Quantity by Type (2025-2030) & (M GB)

Table 94. Middle East & Africa NAND Flash Memory Sales Quantity by Application (2019-2024) & (M GB)

Table 95. Middle East & Africa NAND Flash Memory Sales Quantity by Application

(2025-2030) & (M GB)

Table 96. Middle East & Africa NAND Flash Memory Sales Quantity by Region

(2019-2024) & (M GB)

Table 97. Middle East & Africa NAND Flash Memory Sales Quantity by Region

(2025-2030) & (M GB)

Table 98. Middle East & Africa NAND Flash Memory Consumption Value by Region

(2019-2024) & (USD Million)

Table 99. Middle East & Africa NAND Flash Memory Consumption Value by Region

(2025-2030) & (USD Million)

Table 100. NAND Flash Memory Raw Material

Table 101. Key Manufacturers of NAND Flash Memory Raw Materials

Table 102. NAND Flash Memory Typical Distributors

Table 103. NAND Flash Memory Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. NAND Flash Memory Picture

Figure 2. Global NAND Flash Memory Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global NAND Flash Memory Consumption Value Market Share by Type in 2023

Figure 4. TLC NAND Examples

Figure 5. MLC NAND Examples

Figure 6. SLC NAND Examples

Figure 7. QLC NAND Examples

Figure 8. Global NAND Flash Memory Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 9. Global NAND Flash Memory Consumption Value Market Share by Application in 2023

Figure 10. PC Examples

Figure 11. SSD Examples

Figure 12. Consumer Electronics Examples

Figure 13. Others Examples

Figure 14. Global NAND Flash Memory Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 15. Global NAND Flash Memory Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 16. Global NAND Flash Memory Sales Quantity (2019-2030) & (M GB)

Figure 17. Global NAND Flash Memory Average Price (2019-2030) & (USD/GB)

Figure 18. Global NAND Flash Memory Sales Quantity Market Share by Manufacturer in 2023

Figure 19. Global NAND Flash Memory Consumption Value Market Share by Manufacturer in 2023

Figure 20. Producer Shipments of NAND Flash Memory by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 21. Top 3 NAND Flash Memory Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Top 6 NAND Flash Memory Manufacturer (Consumption Value) Market Share in 2023

Figure 23. Global NAND Flash Memory Sales Quantity Market Share by Region (2019-2030)

Figure 24. Global NAND Flash Memory Consumption Value Market Share by Region (2019-2030)

Figure 25. North America NAND Flash Memory Consumption Value (2019-2030) & (USD Million)

Figure 26. Europe NAND Flash Memory Consumption Value (2019-2030) & (USD Million)

Figure 27. Asia-Pacific NAND Flash Memory Consumption Value (2019-2030) & (USD Million)

Figure 28. South America NAND Flash Memory Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa NAND Flash Memory Consumption Value (2019-2030) & (USD Million)

Figure 30. Global NAND Flash Memory Sales Quantity Market Share by Type (2019-2030)

Figure 31. Global NAND Flash Memory Consumption Value Market Share by Type (2019-2030)

Figure 32. Global NAND Flash Memory Average Price by Type (2019-2030) & (USD/GB)

Figure 33. Global NAND Flash Memory Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global NAND Flash Memory Consumption Value Market Share by Application (2019-2030)

Figure 35. Global NAND Flash Memory Average Price by Application (2019-2030) & (USD/GB)

Figure 36. North America NAND Flash Memory Sales Quantity Market Share by Type (2019-2030)

Figure 37. North America NAND Flash Memory Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America NAND Flash Memory Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America NAND Flash Memory Consumption Value Market Share by Country (2019-2030)

Figure 40. United States NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Canada NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Mexico NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Europe NAND Flash Memory Sales Quantity Market Share by Type

(2019-2030)

Figure 44. Europe NAND Flash Memory Sales Quantity Market Share by Application (2019-2030)

Figure 45. Europe NAND Flash Memory Sales Quantity Market Share by Country (2019-2030)

Figure 46. Europe NAND Flash Memory Consumption Value Market Share by Country (2019-2030)

Figure 47. Germany NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. France NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. United Kingdom NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Russia NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Italy NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. Asia-Pacific NAND Flash Memory Sales Quantity Market Share by Type (2019-2030)

Figure 53. Asia-Pacific NAND Flash Memory Sales Quantity Market Share by Application (2019-2030)

Figure 54. Asia-Pacific NAND Flash Memory Sales Quantity Market Share by Region (2019-2030)

Figure 55. Asia-Pacific NAND Flash Memory Consumption Value Market Share by Region (2019-2030)

Figure 56. China NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Japan NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Korea NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. India NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Southeast Asia NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. Australia NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. South America NAND Flash Memory Sales Quantity Market Share by Type (2019-2030)

- Figure 63. South America NAND Flash Memory Sales Quantity Market Share by Application (2019-2030)
- Figure 64. South America NAND Flash Memory Sales Quantity Market Share by Country (2019-2030)
- Figure 65. South America NAND Flash Memory Consumption Value Market Share by Country (2019-2030)
- Figure 66. Brazil NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 67. Argentina NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 68. Middle East & Africa NAND Flash Memory Sales Quantity Market Share by Type (2019-2030)
- Figure 69. Middle East & Africa NAND Flash Memory Sales Quantity Market Share by Application (2019-2030)
- Figure 70. Middle East & Africa NAND Flash Memory Sales Quantity Market Share by Region (2019-2030)
- Figure 71. Middle East & Africa NAND Flash Memory Consumption Value Market Share by Region (2019-2030)
- Figure 72. Turkey NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 73. Egypt NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 74. Saudi Arabia NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 75. South Africa NAND Flash Memory Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 76. NAND Flash Memory Market Drivers
- Figure 77. NAND Flash Memory Market Restraints
- Figure 78. NAND Flash Memory Market Trends
- Figure 79. Porters Five Forces Analysis
- Figure 80. Manufacturing Cost Structure Analysis of NAND Flash Memory in 2023
- Figure 81. Manufacturing Process Analysis of NAND Flash Memory
- Figure 82. NAND Flash Memory Industrial Chain
- Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors
- Figure 84. Direct Channel Pros & Cons
- Figure 85. Indirect Channel Pros & Cons
- Figure 86. Methodology
- Figure 87. Research Process and Data Source

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