

# Global DDR5 Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD5C0E2ED0D0EN.html>

Date: July 2026

Pages: 139

Price: US\$ 4,480.00 (Single User License)

ID: GD5C0E2ED0D0EN

## Abstracts

The global DDR5 Module market size is expected to reach \$ 60147 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

DDR5 modules are the core hardware enabling PCs, servers and high-performance computing platforms to migrate from DDR4 to a new memory architecture. They improve system bandwidth and power efficiency through higher transfer rates, higher module density, lower I/O voltage and more advanced module-level power management. Consumer DDR5 modules are mainly used in desktops, notebooks, gaming PCs and content-creation workstations, while server-grade DDR5 RDIMMs and MRDIMMs are used in cloud computing, AI servers, HPC, enterprise servers and high-end workstations. The DDR5 module market has moved from early adoption to rapid replacement, driven by new PC platforms, Intel Xeon and AMD EPYC server platforms, AI infrastructure and high-capacity memory demand. In 2025, global DDR5 module shipments are estimated at 460 million Units, with the average selling price is estimated at USD 75 per Unit. The DDR5 module value chain includes upstream DDR5 DRAM chips, PCBs, PMICs, SPD Hubs, RCD/DB chips, heat spreaders, connectors, passive components and testing equipment.

Growth in the DDR5 module market is mainly driven by platform migration in PCs and servers, rising memory capacity requirements in AI data centers, and DDR5's higher-bandwidth architecture. As new Intel and AMD desktop, notebook and server platforms increasingly standardize on DDR5, OEM and DIY demand is shifting from DDR4 to DDR5. At the same time, AI training, inference, databases, virtualization and cloud workloads require much higher memory capacity per server, accelerating demand for 64GB, 96GB, 128GB and 256GB DDR5 RDIMM/MRDIMM modules. DDR5's higher transfer rate, dual-subchannel architecture, on-module PMIC and improved signal

integrity make it a core enabling component for CPU platform upgrades and AI infrastructure expansion.

This report studies the global DDR5 Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DDR5 Module 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 DDR5 Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global DDR5 Module total production and demand, 2021-2032, (Million Units)

Global DDR5 Module total production value, 2021-2032, (USD Million)

Global DDR5 Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global DDR5 Module consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: DDR5 Module domestic production, consumption, key domestic manufacturers and share

Global DDR5 Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global DDR5 Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global DDR5 Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global DDR5 Module 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 Electronics, SK hynix, Micron Technology, ChangXin Memory Technologies, Kingston Technology, ADATA Technology, Corsair Gaming, Team Group, G.SKILL International, Patriot Memory, 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 DDR5 Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) 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 DDR5 Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DDR5 Module Market, Segmentation by Type:

UDIMM

SODIMM

RDIMM

Others

### Global DDR5 Module Market, Segmentation by Capacity Range:

16GB Module

32GB Module

64GB Module

Others

### Global DDR5 Module Market, Segmentation by Speed Grade:

DDR5-4800

DDR5-5200

DDR5-5600

Others

### Global DDR5 Module Market, Segmentation by Application:

Consumer Electronics

AI and Data Center

Industrial

Others

### Companies Profiled:

Samsung Electronics

SK hynix

Micron Technology

ChangXin Memory Technologies

Kingston Technology

ADATA Technology

Corsair Gaming

Team Group

G.SKILL International

Patriot Memory

PNY Technologies

Apacer Technology

Transcend Information

Shenzhen Longsys Electronics

BIWIN Storage Technology

Shenzhen Kimtigo Semiconductor

#### Key Questions Answered:

1. How big is the global DDR5 Module market?
2. What is the demand of the global DDR5 Module market?
3. What is the year over year growth of the global DDR5 Module market?
4. What is the production and production value of the global DDR5 Module market?
5. Who are the key producers in the global DDR5 Module market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 DDR5 Module Introduction
- 1.2 World DDR5 Module Supply & Forecast
  - 1.2.1 World DDR5 Module Production Value (2021 & 2025 & 2032)
  - 1.2.2 World DDR5 Module Production (2021-2032)
  - 1.2.3 World DDR5 Module Pricing Trends (2021-2032)
- 1.3 World DDR5 Module Production by Region (Based on Production Site)
  - 1.3.1 World DDR5 Module Production Value by Region (2021-2032)
  - 1.3.2 World DDR5 Module Production by Region (2021-2032)
  - 1.3.3 World DDR5 Module Average Price by Region (2021-2032)
  - 1.3.4 North America DDR5 Module Production (2021-2032)
  - 1.3.5 Europe DDR5 Module Production (2021-2032)
  - 1.3.6 China DDR5 Module Production (2021-2032)
  - 1.3.7 Japan DDR5 Module Production (2021-2032)
  - 1.3.8 South Korea DDR5 Module Production (2021-2032)
  - 1.3.9 China Taiwan DDR5 Module Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 DDR5 Module Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 DDR5 Module Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World DDR5 Module Demand (2021-2032)
- 2.2 World DDR5 Module Consumption by Region
  - 2.2.1 World DDR5 Module Consumption by Region (2021-2026)
  - 2.2.2 World DDR5 Module Consumption Forecast by Region (2027-2032)
- 2.3 United States DDR5 Module Consumption (2021-2032)
- 2.4 China DDR5 Module Consumption (2021-2032)
- 2.5 Europe DDR5 Module Consumption (2021-2032)
- 2.6 Japan DDR5 Module Consumption (2021-2032)
- 2.7 South Korea DDR5 Module Consumption (2021-2032)
- 2.8 ASEAN DDR5 Module Consumption (2021-2032)
- 2.9 India DDR5 Module Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World DDR5 Module Production Value by Manufacturer (2021-2026)

3.2 World DDR5 Module Production by Manufacturer (2021-2026)

3.3 World DDR5 Module Average Price by Manufacturer (2021-2026)

3.4 DDR5 Module Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global DDR5 Module Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for DDR5 Module in 2025

3.5.3 Global Concentration Ratios (CR8) for DDR5 Module in 2025

3.6 DDR5 Module Market: Overall Company Footprint Analysis

3.6.1 DDR5 Module Market: Region Footprint

3.6.2 DDR5 Module Market: Company Product Type Footprint

3.6.3 DDR5 Module 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: DDR5 Module Production Value Comparison

4.1.1 United States VS China: DDR5 Module Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: DDR5 Module Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: DDR5 Module Production Comparison

4.2.1 United States VS China: DDR5 Module Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: DDR5 Module Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: DDR5 Module Consumption Comparison

4.3.1 United States VS China: DDR5 Module Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: DDR5 Module Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based DDR5 Module Manufacturers and Market Share, 2021-2026

4.4.1 United States Based DDR5 Module Manufacturers, Headquarters and

## Production Site (States, Country)

### 4.4.2 United States Based Manufacturers DDR5 Module Production Value (2021-2026)

#### 4.4.3 United States Based Manufacturers DDR5 Module Production (2021-2026)

## 4.5 China Based DDR5 Module Manufacturers and Market Share

### 4.5.1 China Based DDR5 Module Manufacturers, Headquarters and Production Site (Province, Country)

#### 4.5.2 China Based Manufacturers DDR5 Module Production Value (2021-2026)

#### 4.5.3 China Based Manufacturers DDR5 Module Production (2021-2026)

## 4.6 Rest of World Based DDR5 Module Manufacturers and Market Share, 2021-2026

### 4.6.1 Rest of World Based DDR5 Module Manufacturers, Headquarters and Production Site (State, Country)

### 4.6.2 Rest of World Based Manufacturers DDR5 Module Production Value (2021-2026)

#### 4.6.3 Rest of World Based Manufacturers DDR5 Module Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

### 5.1 World DDR5 Module Market Size Overview by Type: 2021 VS 2025 VS 2032

### 5.2 Segment Introduction by Type

#### 5.2.1 UDIMM

#### 5.2.2 SODIMM

#### 5.2.3 RDIMM

#### 5.2.4 Others

### 5.3 Market Segment by Type

#### 5.3.1 World DDR5 Module Production by Type (2021-2032)

#### 5.3.2 World DDR5 Module Production Value by Type (2021-2032)

#### 5.3.3 World DDR5 Module Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY CAPACITY RANGE

### 6.1 World DDR5 Module Market Size Overview by Capacity Range: 2021 VS 2025 VS 2032

### 6.2 Segment Introduction by Capacity Range

#### 6.2.1 16GB Module

#### 6.2.2 32GB Module

#### 6.2.3 64GB Module

#### 6.2.4 Others

### 6.3 Market Segment by Capacity Range

- 6.3.1 World DDR5 Module Production by Capacity Range (2021-2032)
- 6.3.2 World DDR5 Module Production Value by Capacity Range (2021-2032)
- 6.3.3 World DDR5 Module Average Price by Capacity Range (2021-2032)

## **7 MARKET ANALYSIS BY SPEED GRADE**

- 7.1 World DDR5 Module Market Size Overview by Speed Grade: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Speed Grade
  - 7.2.1 DDR5-4800
  - 7.2.2 DDR5-5200
  - 7.2.3 DDR5-5600
  - 7.2.4 Others
- 7.3 Market Segment by Speed Grade
  - 7.3.1 World DDR5 Module Production by Speed Grade (2021-2032)
  - 7.3.2 World DDR5 Module Production Value by Speed Grade (2021-2032)
  - 7.3.3 World DDR5 Module Average Price by Speed Grade (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

- 8.1 World DDR5 Module Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
  - 8.2.1 Consumer Electronics
  - 8.2.2 AI and Data Center
  - 8.2.3 Industrial
  - 8.2.4 Others
- 8.3 Market Segment by Application
  - 8.3.1 World DDR5 Module Production by Application (2021-2032)
  - 8.3.2 World DDR5 Module Production Value by Application (2021-2032)
  - 8.3.3 World DDR5 Module Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

- 9.1 Samsung Electronics
  - 9.1.1 Samsung Electronics Details
  - 9.1.2 Samsung Electronics Major Business
  - 9.1.3 Samsung Electronics DDR5 Module Product and Services
  - 9.1.4 Samsung Electronics DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Samsung Electronics Recent Developments/Updates
- 9.1.6 Samsung Electronics Competitive Strengths & Weaknesses
- 9.2 SK hynix
  - 9.2.1 SK hynix Details
  - 9.2.2 SK hynix Major Business
  - 9.2.3 SK hynix DDR5 Module Product and Services
  - 9.2.4 SK hynix DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 SK hynix Recent Developments/Updates
  - 9.2.6 SK hynix Competitive Strengths & Weaknesses
- 9.3 Micron Technology
  - 9.3.1 Micron Technology Details
  - 9.3.2 Micron Technology Major Business
  - 9.3.3 Micron Technology DDR5 Module Product and Services
  - 9.3.4 Micron Technology DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Micron Technology Recent Developments/Updates
  - 9.3.6 Micron Technology Competitive Strengths & Weaknesses
- 9.4 ChangXin Memory Technologies
  - 9.4.1 ChangXin Memory Technologies Details
  - 9.4.2 ChangXin Memory Technologies Major Business
  - 9.4.3 ChangXin Memory Technologies DDR5 Module Product and Services
  - 9.4.4 ChangXin Memory Technologies DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 ChangXin Memory Technologies Recent Developments/Updates
  - 9.4.6 ChangXin Memory Technologies Competitive Strengths & Weaknesses
- 9.5 Kingston Technology
  - 9.5.1 Kingston Technology Details
  - 9.5.2 Kingston Technology Major Business
  - 9.5.3 Kingston Technology DDR5 Module Product and Services
  - 9.5.4 Kingston Technology DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Kingston Technology Recent Developments/Updates
  - 9.5.6 Kingston Technology Competitive Strengths & Weaknesses
- 9.6 ADATA Technology
  - 9.6.1 ADATA Technology Details
  - 9.6.2 ADATA Technology Major Business
  - 9.6.3 ADATA Technology DDR5 Module Product and Services
  - 9.6.4 ADATA Technology DDR5 Module Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

### 9.6.5 ADATA Technology Recent Developments/Updates

### 9.6.6 ADATA Technology Competitive Strengths & Weaknesses

## 9.7 Corsair Gaming

### 9.7.1 Corsair Gaming Details

### 9.7.2 Corsair Gaming Major Business

### 9.7.3 Corsair Gaming DDR5 Module Product and Services

### 9.7.4 Corsair Gaming DDR5 Module Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

### 9.7.5 Corsair Gaming Recent Developments/Updates

### 9.7.6 Corsair Gaming Competitive Strengths & Weaknesses

## 9.8 Team Group

### 9.8.1 Team Group Details

### 9.8.2 Team Group Major Business

### 9.8.3 Team Group DDR5 Module Product and Services

### 9.8.4 Team Group DDR5 Module Production, Price, Value, Gross Margin and Market

## Share (2021-2026)

### 9.8.5 Team Group Recent Developments/Updates

### 9.8.6 Team Group Competitive Strengths & Weaknesses

## 9.9 G.SKILL International

### 9.9.1 G.SKILL International Details

### 9.9.2 G.SKILL International Major Business

### 9.9.3 G.SKILL International DDR5 Module Product and Services

### 9.9.4 G.SKILL International DDR5 Module Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

### 9.9.5 G.SKILL International Recent Developments/Updates

### 9.9.6 G.SKILL International Competitive Strengths & Weaknesses

## 9.10 Patriot Memory

### 9.10.1 Patriot Memory Details

### 9.10.2 Patriot Memory Major Business

### 9.10.3 Patriot Memory DDR5 Module Product and Services

### 9.10.4 Patriot Memory DDR5 Module Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

### 9.10.5 Patriot Memory Recent Developments/Updates

### 9.10.6 Patriot Memory Competitive Strengths & Weaknesses

## 9.11 PNY Technologies

### 9.11.1 PNY Technologies Details

### 9.11.2 PNY Technologies Major Business

### 9.11.3 PNY Technologies DDR5 Module Product and Services

9.11.4 PNY Technologies DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 PNY Technologies Recent Developments/Updates

9.11.6 PNY Technologies Competitive Strengths & Weaknesses

9.12 Apacer Technology

9.12.1 Apacer Technology Details

9.12.2 Apacer Technology Major Business

9.12.3 Apacer Technology DDR5 Module Product and Services

9.12.4 Apacer Technology DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Apacer Technology Recent Developments/Updates

9.12.6 Apacer Technology Competitive Strengths & Weaknesses

9.13 Transcend Information

9.13.1 Transcend Information Details

9.13.2 Transcend Information Major Business

9.13.3 Transcend Information DDR5 Module Product and Services

9.13.4 Transcend Information DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Transcend Information Recent Developments/Updates

9.13.6 Transcend Information Competitive Strengths & Weaknesses

9.14 Shenzhen Longsys Electronics

9.14.1 Shenzhen Longsys Electronics Details

9.14.2 Shenzhen Longsys Electronics Major Business

9.14.3 Shenzhen Longsys Electronics DDR5 Module Product and Services

9.14.4 Shenzhen Longsys Electronics DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Shenzhen Longsys Electronics Recent Developments/Updates

9.14.6 Shenzhen Longsys Electronics Competitive Strengths & Weaknesses

9.15 BIWIN Storage Technology

9.15.1 BIWIN Storage Technology Details

9.15.2 BIWIN Storage Technology Major Business

9.15.3 BIWIN Storage Technology DDR5 Module Product and Services

9.15.4 BIWIN Storage Technology DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 BIWIN Storage Technology Recent Developments/Updates

9.15.6 BIWIN Storage Technology Competitive Strengths & Weaknesses

9.16 Shenzhen Kimtigo Semiconductor

9.16.1 Shenzhen Kimtigo Semiconductor Details

9.16.2 Shenzhen Kimtigo Semiconductor Major Business

- 9.16.3 Shenzhen Kintigo Semiconductor DDR5 Module Product and Services
- 9.16.4 Shenzhen Kintigo Semiconductor DDR5 Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Shenzhen Kintigo Semiconductor Recent Developments/Updates
- 9.16.6 Shenzhen Kintigo Semiconductor Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 DDR5 Module Industry Chain
- 10.2 DDR5 Module Upstream Analysis
  - 10.2.1 DDR5 Module Core Raw Materials
  - 10.2.2 Main Manufacturers of DDR5 Module Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 DDR5 Module Production Mode
- 10.6 DDR5 Module Procurement Model
- 10.7 DDR5 Module Industry Sales Model and Sales Channels
  - 10.7.1 DDR5 Module Sales Model
  - 10.7.2 DDR5 Module Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World DDR5 Module Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World DDR5 Module Production Value by Region (2021-2026) & (USD Million)

Table 3. World DDR5 Module Production Value by Region (2027-2032) & (USD Million)

Table 4. World DDR5 Module Production Value Market Share by Region (2021-2026)

Table 5. World DDR5 Module Production Value Market Share by Region (2027-2032)

Table 6. World DDR5 Module Production by Region (2021-2026) & (Million Units)

Table 7. World DDR5 Module Production by Region (2027-2032) & (Million Units)

Table 8. World DDR5 Module Production Market Share by Region (2021-2026)

Table 9. World DDR5 Module Production Market Share by Region (2027-2032)

Table 10. World DDR5 Module Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World DDR5 Module Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. DDR5 Module Major Market Trends

Table 13. World DDR5 Module Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World DDR5 Module Consumption by Region (2021-2026) & (Million Units)

Table 15. World DDR5 Module Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World DDR5 Module Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key DDR5 Module Producers in 2025

Table 18. World DDR5 Module Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key DDR5 Module Producers in 2025

Table 20. World DDR5 Module Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global DDR5 Module Company Evaluation Quadrant

Table 22. World DDR5 Module Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and DDR5 Module Production Site of Key Manufacturer

Table 24. DDR5 Module Market: Company Product Type Footprint

Table 25. DDR5 Module Market: Company Product Application Footprint

Table 26. DDR5 Module Competitive Factors

Table 27. DDR5 Module New Entrant and Capacity Expansion Plans

Table 28. DDR5 Module Mergers & Acquisitions Activity

Table 29. United States VS China DDR5 Module Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China DDR5 Module Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China DDR5 Module Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based DDR5 Module Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers DDR5 Module Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers DDR5 Module Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers DDR5 Module Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers DDR5 Module Production Market Share (2021-2026)

Table 37. China Based DDR5 Module Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers DDR5 Module Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers DDR5 Module Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers DDR5 Module Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers DDR5 Module Production Market Share (2021-2026)

Table 42. Rest of World Based DDR5 Module Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers DDR5 Module Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers DDR5 Module Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers DDR5 Module Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers DDR5 Module Production Market Share (2021-2026)

Table 47. World DDR5 Module Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World DDR5 Module Production by Type (2021-2026) & (Million Units)

Table 49. World DDR5 Module Production by Type (2027-2032) & (Million Units)

Table 50. World DDR5 Module Production Value by Type (2021-2026) & (USD Million)

Table 51. World DDR5 Module Production Value by Type (2027-2032) & (USD Million)

Table 52. World DDR5 Module Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World DDR5 Module Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World DDR5 Module Production Value by Capacity Range, (USD Million), 2021 & 2025 & 2032

Table 55. World DDR5 Module Production by Capacity Range (2021-2026) & (Million Units)

Table 56. World DDR5 Module Production by Capacity Range (2027-2032) & (Million Units)

Table 57. World DDR5 Module Production Value by Capacity Range (2021-2026) & (USD Million)

Table 58. World DDR5 Module Production Value by Capacity Range (2027-2032) & (USD Million)

Table 59. World DDR5 Module Average Price by Capacity Range (2021-2026) & (US\$/Unit)

Table 60. World DDR5 Module Average Price by Capacity Range (2027-2032) & (US\$/Unit)

Table 61. World DDR5 Module Production Value by Speed Grade, (USD Million), 2021 & 2025 & 2032

Table 62. World DDR5 Module Production by Speed Grade (2021-2026) & (Million Units)

Table 63. World DDR5 Module Production by Speed Grade (2027-2032) & (Million Units)

Table 64. World DDR5 Module Production Value by Speed Grade (2021-2026) & (USD Million)

Table 65. World DDR5 Module Production Value by Speed Grade (2027-2032) & (USD Million)

Table 66. World DDR5 Module Average Price by Speed Grade (2021-2026) & (US\$/Unit)

Table 67. World DDR5 Module Average Price by Speed Grade (2027-2032) & (US\$/Unit)

Table 68. World DDR5 Module Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World DDR5 Module Production by Application (2021-2026) & (Million Units)

Table 70. World DDR5 Module Production by Application (2027-2032) & (Million Units)

Table 71. World DDR5 Module Production Value by Application (2021-2026) & (USD Million)

Table 72. World DDR5 Module Production Value by Application (2027-2032) & (USD Million)

Table 73. World DDR5 Module Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World DDR5 Module Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Samsung Electronics Basic Information, Manufacturing Base and Competitors

Table 76. Samsung Electronics Major Business

Table 77. Samsung Electronics DDR5 Module Product and Services

Table 78. Samsung Electronics DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Samsung Electronics Recent Developments/Updates

Table 80. Samsung Electronics Competitive Strengths & Weaknesses

Table 81. SK hynix Basic Information, Manufacturing Base and Competitors

Table 82. SK hynix Major Business

Table 83. SK hynix DDR5 Module Product and Services

Table 84. SK hynix DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. SK hynix Recent Developments/Updates

Table 86. SK hynix Competitive Strengths & Weaknesses

Table 87. Micron Technology Basic Information, Manufacturing Base and Competitors

Table 88. Micron Technology Major Business

Table 89. Micron Technology DDR5 Module Product and Services

Table 90. Micron Technology DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Micron Technology Recent Developments/Updates

Table 92. Micron Technology Competitive Strengths & Weaknesses

Table 93. ChangXin Memory Technologies Basic Information, Manufacturing Base and Competitors

Table 94. ChangXin Memory Technologies Major Business

Table 95. ChangXin Memory Technologies DDR5 Module Product and Services

Table 96. ChangXin Memory Technologies DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. ChangXin Memory Technologies Recent Developments/Updates

Table 98. ChangXin Memory Technologies Competitive Strengths & Weaknesses

Table 99. Kingston Technology Basic Information, Manufacturing Base and Competitors

Table 100. Kingston Technology Major Business

Table 101. Kingston Technology DDR5 Module Product and Services

Table 102. Kingston Technology DDR5 Module Production (Million Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share  
(2021-2026)

Table 103. Kingston Technology Recent Developments/Updates

Table 104. Kingston Technology Competitive Strengths & Weaknesses

Table 105. ADATA Technology Basic Information, Manufacturing Base and Competitors

Table 106. ADATA Technology Major Business

Table 107. ADATA Technology DDR5 Module Product and Services

Table 108. ADATA Technology DDR5 Module Production (Million Units), Price  
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share  
(2021-2026)

Table 109. ADATA Technology Recent Developments/Updates

Table 110. ADATA Technology Competitive Strengths & Weaknesses

Table 111. Corsair Gaming Basic Information, Manufacturing Base and Competitors

Table 112. Corsair Gaming Major Business

Table 113. Corsair Gaming DDR5 Module Product and Services

Table 114. Corsair Gaming DDR5 Module Production (Million Units), Price (US\$/Unit),  
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Corsair Gaming Recent Developments/Updates

Table 116. Corsair Gaming Competitive Strengths & Weaknesses

Table 117. Team Group Basic Information, Manufacturing Base and Competitors

Table 118. Team Group Major Business

Table 119. Team Group DDR5 Module Product and Services

Table 120. Team Group DDR5 Module Production (Million Units), Price (US\$/Unit),  
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Team Group Recent Developments/Updates

Table 122. Team Group Competitive Strengths & Weaknesses

Table 123. G.SKILL International Basic Information, Manufacturing Base and  
Competitors

Table 124. G.SKILL International Major Business

Table 125. G.SKILL International DDR5 Module Product and Services

Table 126. G.SKILL International DDR5 Module Production (Million Units), Price  
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share  
(2021-2026)

Table 127. G.SKILL International Recent Developments/Updates

Table 128. G.SKILL International Competitive Strengths & Weaknesses

Table 129. Patriot Memory Basic Information, Manufacturing Base and Competitors

Table 130. Patriot Memory Major Business

Table 131. Patriot Memory DDR5 Module Product and Services

Table 132. Patriot Memory DDR5 Module Production (Million Units), Price (US\$/Unit),

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

Table 133. Patriot Memory Recent Developments/Updates

Table 134. Patriot Memory Competitive Strengths & Weaknesses

Table 135. PNY Technologies Basic Information, Manufacturing Base and Competitors

Table 136. PNY Technologies Major Business

Table 137. PNY Technologies DDR5 Module Product and Services

Table 138. PNY Technologies DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. PNY Technologies Recent Developments/Updates

Table 140. PNY Technologies Competitive Strengths & Weaknesses

Table 141. Apacer Technology Basic Information, Manufacturing Base and Competitors

Table 142. Apacer Technology Major Business

Table 143. Apacer Technology DDR5 Module Product and Services

Table 144. Apacer Technology DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Apacer Technology Recent Developments/Updates

Table 146. Apacer Technology Competitive Strengths & Weaknesses

Table 147. Transcend Information Basic Information, Manufacturing Base and Competitors

Table 148. Transcend Information Major Business

Table 149. Transcend Information DDR5 Module Product and Services

Table 150. Transcend Information DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Transcend Information Recent Developments/Updates

Table 152. Transcend Information Competitive Strengths & Weaknesses

Table 153. Shenzhen Longsys Electronics Basic Information, Manufacturing Base and Competitors

Table 154. Shenzhen Longsys Electronics Major Business

Table 155. Shenzhen Longsys Electronics DDR5 Module Product and Services

Table 156. Shenzhen Longsys Electronics DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Shenzhen Longsys Electronics Recent Developments/Updates

Table 158. Shenzhen Longsys Electronics Competitive Strengths & Weaknesses

Table 159. BIWIN Storage Technology Basic Information, Manufacturing Base and Competitors

|                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table 160. BIWIN Storage Technology Major Business                                                                                                                             |
| Table 161. BIWIN Storage Technology DDR5 Module Product and Services                                                                                                           |
| Table 162. BIWIN Storage Technology DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)       |
| Table 163. BIWIN Storage Technology Recent Developments/Updates                                                                                                                |
| Table 164. BIWIN Storage Technology Competitive Strengths & Weaknesses                                                                                                         |
| Table 165. Shenzhen Kimtigo Semiconductor Basic Information, Manufacturing Base and Competitors                                                                                |
| Table 166. Shenzhen Kimtigo Semiconductor Major Business                                                                                                                       |
| Table 167. Shenzhen Kimtigo Semiconductor DDR5 Module Product and Services                                                                                                     |
| Table 168. Shenzhen Kimtigo Semiconductor DDR5 Module Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026) |
| Table 169. Shenzhen Kimtigo Semiconductor Recent Developments/Updates                                                                                                          |
| Table 170. Shenzhen Kimtigo Semiconductor Competitive Strengths & Weaknesses                                                                                                   |
| Table 171. Global Key Players of DDR5 Module Upstream (Raw Materials)                                                                                                          |
| Table 172. Global DDR5 Module Typical Customers                                                                                                                                |
| Table 173. DDR5 Module Typical Distributors                                                                                                                                    |

## List Of Figures

### LIST OF FIGURES

- Figure 1. DDR5 Module Picture
- Figure 2. World DDR5 Module Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World DDR5 Module Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World DDR5 Module Production (2021-2032) & (Million Units)
- Figure 5. World DDR5 Module Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World DDR5 Module Production Value Market Share by Region (2021-2032)
- Figure 7. World DDR5 Module Production Market Share by Region (2021-2032)
- Figure 8. North America DDR5 Module Production (2021-2032) & (Million Units)
- Figure 9. Europe DDR5 Module Production (2021-2032) & (Million Units)
- Figure 10. China DDR5 Module Production (2021-2032) & (Million Units)
- Figure 11. Japan DDR5 Module Production (2021-2032) & (Million Units)
- Figure 12. South Korea DDR5 Module Production (2021-2032) & (Million Units)
- Figure 13. China Taiwan DDR5 Module Production (2021-2032) & (Million Units)
- Figure 14. DDR5 Module Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World DDR5 Module Consumption (2021-2032) & (Million Units)
- Figure 17. World DDR5 Module Consumption Market Share by Region (2021-2032)
- Figure 18. United States DDR5 Module Consumption (2021-2032) & (Million Units)
- Figure 19. China DDR5 Module Consumption (2021-2032) & (Million Units)
- Figure 20. Europe DDR5 Module Consumption (2021-2032) & (Million Units)
- Figure 21. Japan DDR5 Module Consumption (2021-2032) & (Million Units)
- Figure 22. South Korea DDR5 Module Consumption (2021-2032) & (Million Units)
- Figure 23. ASEAN DDR5 Module Consumption (2021-2032) & (Million Units)
- Figure 24. India DDR5 Module Consumption (2021-2032) & (Million Units)
- Figure 25. Producer Shipments of DDR5 Module by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 26. Global Four-firm Concentration Ratios (CR4) for DDR5 Module Markets in 2025
- Figure 27. Global Four-firm Concentration Ratios (CR8) for DDR5 Module Markets in 2025
- Figure 28. United States VS China: DDR5 Module Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States VS China: DDR5 Module Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: DDR5 Module Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers DDR5 Module Production Market Share 2025

Figure 32. China Based Manufacturers DDR5 Module Production Market Share 2025

Figure 33. Rest of World Based Manufacturers DDR5 Module Production Market Share 2025

Figure 34. World DDR5 Module Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World DDR5 Module Production Value Market Share by Type in 2025

Figure 36. UDIMM

Figure 37. SODIMM

Figure 38. RDIMM

Figure 39. Others

Figure 40. World DDR5 Module Production Market Share by Type (2021-2032)

Figure 41. World DDR5 Module Production Value Market Share by Type (2021-2032)

Figure 42. World DDR5 Module Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World DDR5 Module Production Value by Capacity Range, (USD Million), 2021 & 2025 & 2032

Figure 44. World DDR5 Module Production Value Market Share by Capacity Range in 2025

Figure 45. 16GB Module

Figure 46. 32GB Module

Figure 47. 64GB Module

Figure 48. Others

Figure 49. World DDR5 Module Production Market Share by Capacity Range (2021-2032)

Figure 50. World DDR5 Module Production Value Market Share by Capacity Range (2021-2032)

Figure 51. World DDR5 Module Average Price by Capacity Range (2021-2032) & (US\$/Unit)

Figure 52. World DDR5 Module Production Value by Speed Grade, (USD Million), 2021 & 2025 & 2032

Figure 53. World DDR5 Module Production Value Market Share by Speed Grade in 2025

Figure 54. DDR5-4800

Figure 55. DDR5-5200

Figure 56. DDR5-5600

Figure 57. Others

Figure 58. World DDR5 Module Production Market Share by Speed Grade (2021-2032)

Figure 59. World DDR5 Module Production Value Market Share by Speed Grade (2021-2032)

Figure 60. World DDR5 Module Average Price by Speed Grade (2021-2032) & (US\$/Unit)

Figure 61. World DDR5 Module Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World DDR5 Module Production Value Market Share by Application in 2025

Figure 63. Consumer Electronics

Figure 64. AI and Data Center

Figure 65. Industrial

Figure 66. Others

Figure 67. World DDR5 Module Production Market Share by Application (2021-2032)

Figure 68. World DDR5 Module Production Value Market Share by Application (2021-2032)

Figure 69. World DDR5 Module Average Price by Application (2021-2032) & (US\$/Unit)

Figure 70. DDR5 Module Industry Chain

Figure 71. DDR5 Module Procurement Model

Figure 72. DDR5 Module Sales Model

Figure 73. DDR5 Module Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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