

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

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## Abstracts

The global DDR5 Memory Module market size is expected to reach \$ 15654 million by 2032, rising at a market growth of 13.3% CAGR during the forecast period (2026-2032).

In 2025, global DDR5 Memory Module production reached approximately 31.69 million units, with an average global market price of around US\$200 per unit.

DDR5 memory modules are standardized memory products based on the fifth-generation Double Data Rate Synchronous Dynamic Random Access Memory (DDR5 SDRAM). They consist of multiple DRAM chips, a power management IC (PMIC), SPD controller, and PCB, providing high-speed data buffering and temporary storage for computing systems. Compared with DDR4, DDR5 significantly improves bandwidth, capacity density, and energy efficiency, while introducing dual 32-bit subchannels, on-die ECC, and module-level power management, making it widely used in PCs, servers, data centers, and AI computing.

The DDR5 memory module value chain includes upstream semiconductor materials and DRAM chip manufacturing, midstream module assembly and branding, and downstream system integration and data center applications. Key upstream players include Samsung Electronics, SK hynix, and Micron Technology, along with packaging/testing and PCB suppliers. Midstream consists of module vendors such as Kingston, Corsair, and ADATA, responsible for assembly and distribution. Downstream applications include PC OEMs like Dell and HP, as well as cloud and data center providers such as Amazon Web Services and Google Cloud, forming a complete chain from wafer fabrication to end-use systems.

The DDR5 memory module market is in a phase of rapid penetration and structural

upgrade, expanding from high-end applications into the mainstream consumer segment. Driven by AI, large-scale model training, and cloud infrastructure, demand for high-bandwidth memory continues to rise, accelerating DDR5 adoption in servers and data centers. At the same time, new CPU platforms are driving DDR5 adoption in PCs. Technologically, DDR5 evolves toward higher speeds, larger capacities, and improved efficiency, complementing high-end memory such as HBM. However, the market faces supply-demand volatility: DRAM production is concentrated among a few major players, and AI demand is constraining supply, leading to price fluctuations and shortages. Meanwhile, DDR4 inventory, platform compatibility, and cost considerations still slow full transition. Overall, DDR5 is transitioning from a growth phase toward mainstream dominance.

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

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

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

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

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

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

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

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

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

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

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

This report profiles key players in the global DDR5 Memory 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 Micron Technology, Inc., Samsung, ADATA, Innodisk Corporation, SK Hynix, GIGABYTE, Team Group Inc., Kingston, Transcend Information, Inc., Patriot, 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 Memory Module market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Memory Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global DDR5 Memory Module Market, Segmentation by Type:

8 GB

16 GB

32 GB

Other

#### Global DDR5 Memory Module Market, Segmentation by Transmission Rate:

4800 MT/s

5600 MT/s

6000 MT/s

6400 MT/s

Others

#### Global DDR5 Memory Module Market, Segmentation by Timing:

CL26-CL30

CL30-CL34

CL34-CL38

Others

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

Server

Desktops

Laptop

Other

Companies Profiled:

Micron Technology, Inc.

Samsung

ADATA

Innodisk Corporation

SK Hynix

GIGABYTE

Team Group Inc.

Kingston

Transcend Information, Inc.

Patriot

Advantech Co., Ltd.

Apacer Technology Inc.

Longsys

Netac Technology Co.,Ltd

SMART

Intergral Memory

Corsair

**Key Questions Answered:**

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

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