

Global DDR5 Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GEF32C22E185EN.html>

Date: July 2026

Pages: 143

Price: US\$ 3,480.00 (Single User License)

ID: GEF32C22E185EN

Abstracts

According to our (Global Info Research) latest study, the global DDR5 Module market size was valued at US\$ 35499 million in 2025 and is forecast to a readjusted size of US\$ 60147 million by 2032 with a CAGR of 8.1% during review period.

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 is a detailed and comprehensive analysis for global DDR5 Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global DDR5 Module market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global DDR5 Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global DDR5 Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global DDR5 Module market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for DDR5 Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global DDR5 Module market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

DDR5 Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

UDIMM

SODIMM

RDIMM

Others

Market segment by Capacity Range

16GB Module

32GB Module

64GB Module

Others

Market segment by Speed Grade

DDR5-4800

DDR5-5200

DDR5-5600

Others

Market segment by Application

Consumer Electronics

AI and Data Center

Industrial

Others

Major players covered

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

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 DDR5 Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DDR5 Module, with price, sales quantity, revenue, and global market share of DDR5 Module from 2021 to 2026.

Chapter 3, the DDR5 Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the DDR5 Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and DDR5 Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 DDR5 Module.

Chapter 14 and 15, to describe DDR5 Module sales channel, distributors, customers, research findings and conclusion.

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