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Global DRAM for Servers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global DRAM for Servers market size was valued at US$ 76768 million in 2025 and is forecast to a readjusted size of US$ 247834 million by 2032 with a CAGR of 13.3% during review period.

Server DRAM refers to DRAM products installed in servers, data center servers, AI servers, HPC servers, and enterprise-grade computing platforms, where they perform high-speed, volatile data access functions. Its primary role is to provide high-bandwidth, low-latency temporary data storage space situated between the CPU, GPU, AI accelerators, and system bus, thereby supporting workloads such as operating system operations, databases, virtualization, cloud computing, AI training, AI inference, high-performance computing, and large-scale data processing.

In 2025, the average price for server DRAM is projected to range between approximately $4 and $10 per GB; however, entering 2026, a severe supply-demand imbalance in the server memory market is expected to emerge, driving the average unit price of server DDR5 memory to soar beyond $20 per GB.

Server DRAM is currently evolving from a traditional server memory component into a core computational infrastructure element for the era of AI data centers. Historically, the primary value of server DRAM was centered on CPU main memory; products predominantly took the form of DDR4, DDR5 RDIMMs, and LRDIMMs, with core demand driven by cloud computing, databases, virtualization, enterprise servers, and general data center expansion. However, with the rapid advancement of AI training, AI inference, HPC, high-performance cloud computing, and large language model services, the market dynamics of server DRAM have undergone a distinct

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transformation: it is no longer merely a standard storage component within a server's Bill of Materials (BOM), but rather a critical resource that determines the system's overall compute utilization, memory bandwidth, model loading efficiency, and system throughput capabilities.

In terms of product structure, the primary growth trajectory for server DRAM can be summarized in three key trends: First, the transition from DDR4 to DDR5, which delivers improvements in per-server capacity, bandwidth, and energy efficiency. Second, the accelerating penetration of high-capacity, high-bandwidth modules—such as DDR5 RDIMMs, 3DS RDIMMs, and MRDIMMs—designed to meet the demands of high-core-count CPU platforms and memory-intensive workloads. Third, the rapid volume ramp-up of HBM (High Bandwidth Memory) within AI GPUs, AI ASICs, and HPC accelerators, which has significantly elevated the average unit value of server DRAM. Particularly within the AI ??server segment, HBM has emerged as one of the highest-value, most supply-constrained, and technically demanding categories of DRAM, driving the server DRAM market to shift further from a 'capacity-driven' model toward a 'bandwidth-driven' and 'advanced packaging-driven' paradigm.

From a competitive landscape perspective, server DRAM remains a highly concentrated oligopolistic market. Samsung, SK Hynix, and Micron serve as the core global suppliers, holding distinct advantages in technology, production capacity, and customer qualification across the DDR5, HBM, and high-end server memory module segments. Meanwhile, other players—such as CXMT, Nanya, Winbond, Powerchip, Etron, ISSI, and SMART Modular—are primarily positioned in catch-up modes, niche supply roles, foundry manufacturing, or the memory module assembly stage. Moving forward, opportunities within the industry chain will not be confined solely to the DRAM dies themselves; they will also spill over into adjacent sectors, including advanced packaging, TSV (Through-Silicon Via) technology, testing services, packaging substrates, memory modules, power management solutions, thermal management systems, and the broader server system supply chain.

In conclusion, server DRAM has established itself as the sub-segment within the storage industry that exhibits the strongest growth elasticity, the most rapid value appreciation, and the highest level of strategic significance within the supply chain. AI servers are driving HBM into a boom cycle, while upgrades to general-purpose server platforms are propelling DDR5 into the mainstream; meanwhile, CXL and MRDIMM are opening up new frontiers for memory expansion and high-bandwidth main memory.

In 2025, the global server market's DRAM installed capacity is projected to be

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approximately 20.1 billion GB, with an average price ranging around $3.7 per GB.

This report is a detailed and comprehensive analysis for global DRAM for Servers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Technology 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 DRAM for Servers market size and forecasts, in consumption value ($ Million), sales quantity (M GB), and average selling prices (USD/GB), 2021-2032

Global DRAM for Servers market size and forecasts by region and country, in consumption value ($ Million), sales quantity (M GB), and average selling prices (USD/GB), 2021-2032

Global DRAM for Servers market size and forecasts, by Technology and by Application, in consumption value ($ Million), sales quantity (M GB), and average selling prices (USD/GB), 2021-2032

Global DRAM for Servers market shares of main players, shipments in revenue ($ Million), sales quantity (M GB), and ASP (USD/GB), 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 DRAM for Servers

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 DRAM for Servers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin,

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product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung Semiconductor, SK Hynix Inc, Micron Technology Inc, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

DRAM for Servers market is split by Technology and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Technology, 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 Technology

DDR4

DDR5

HBM

Market segment by Modules

Standard RDIMM

LRDIMM

3DS/TSV DIMM

MRDIMM

CXL Expansion Module

HBM Packaged Memory

Market segment by Application

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General-Purpose Servers

AI Servers

Major players covered

Samsung Semiconductor

SK Hynix Inc

Micron Technology Inc

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 DRAM for Servers product scope, market overview, market estimation caveats and base year.

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

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

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Chapter 4, the DRAM for Servers 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 Technology and by Application, with sales market share and growth rate by Technology, 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 DRAM for Servers market forecast, by regions, by Technology, 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 DRAM for Servers.

Chapter 14 and 15, to describe DRAM for Servers sales channel, distributors, customers, research findings and conclusion.

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