

Global AI Server Storage & Memory Chips Market Growth 2026-2032

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Abstracts

The global AI Server Storage & Memory Chips market size is predicted to grow from US\$ 65516 million in 2025 to US\$ 389866 million in 2032; it is expected to grow at a CAGR of 20.7% from 2026 to 2032.

AI Server Storage & Memory Chips refer to semiconductor memory and storage products designed to meet the demanding data throughput, low latency, and high capacity requirements of AI servers. These include high-bandwidth memory (HBM), server-grade DRAM (like DDR5), and high-performance NAND flash storage. Unlike traditional consumer memory, these chips are engineered for applications such as deep learning training, inference workloads, and large-scale data buffering, making them essential components of data centers and cloud infrastructure supporting AI models and workloads. (Note: Some companies in the list are potential/R&D companies.) In 2025, global shipments of AI Server Storage & Memory Chips are estimated at 5273.43 PB, with an average price of approximately US\$12.7/GB and a gross margin of over 35%.

As generative artificial intelligence and large-scale models are rapidly deployed, the demand for computing power and storage in AI servers is surging. High-bandwidth memory (HBM), DDR5 memory, and high-speed solid-state drives (eSSDs) have become core components. AI infrastructure construction is consuming a significant portion of global production capacity, driving up memory chip prices. Market data shows that AI servers demand eight times more DRAM and three times more NAND Flash than traditional servers. This has led to a supply shortage, with suppliers prioritizing orders from hyperscale cloud service providers and AI server OEMs.

Leading companies are facing capacity constraints. Major memory chip manufacturers such as Samsung, SK Hynix, and Micron are operating at near full capacity. New wafer

fabs have construction cycles of 4-5 years, limiting new supply in the short term. As a result, the price of HBM has skyrocketed from approximately \$20/GB to \$85/GB, with the next-generation HBM4 potentially reaching approximately \$560/GB. DRAM and enterprise-grade SSDs have also seen price increases, significantly increasing operating costs for some cloud service providers and AI data centers. In the short term, the supply shortage will continue, and the prices and profit margins of high-end products in the global memory chip market are likely to remain high.

The high industry concentration and supply-demand imbalance have reshaped the market structure. The memory chip market, previously considered a cyclical industry, is now seeing companies transitioning from simple cyclical manufacturers to core suppliers of AI infrastructure, thanks to large cloud service providers holding over 60% of long-term contracts. In the future, the application of AI servers will extend to enterprise cloud, edge computing, autonomous driving, and smart manufacturing, continuously driving demand for high-performance memory chips and propelling the rapid evolution of the entire memory ecosystem.

LP Information, Inc. (LPI) ' newest research report, the "AI Server Storage & Memory Chips Industry Forecast" looks at past sales and reviews total world AI Server Storage & Memory Chips sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Server Storage & Memory Chips sales for 2026 through 2032. With AI Server Storage & Memory Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Server Storage & Memory Chips industry.

This Insight Report provides a comprehensive analysis of the global AI Server Storage & Memory Chips landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Server Storage & Memory Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Server Storage & Memory Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Server Storage & Memory Chips and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Server Storage & Memory

Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Server Storage & Memory Chips market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

HBM (High Bandwidth Memory)

DRAM (DDR5/DDR6)

eSSD (NVMe SSD/NAND Flash)

Others

Segmentation by Interface Width:

Ultra-High (>1?TB/s)

High (512?1024?GB/s)

Standard (4 TB)

Large (2?4 TB)

Medium (1?2 TB)

Small (

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