

AI s Demand for High-End Servers



Overview

Dell, HPE, Lenovo, and Supermicro are riding record AI server demand, but winning enterprise customers requires more than just Nvidia chips. projects the global AI server market was valued at USD 128 billion in 2024. 56 trillion in 2034, at a CAGR of 28. With GPUs standardized around Nvidia, vendors compete on AIOps, liquid cooling, and deployment services as enterprises ramp up inference in 2026. By function, the training segment is projected to grow at the fastest rate from 2024 to 2030. These deployments often involve custom server architectures, which allow for better energy efficiency and computational. Spending is rising fast as AI servers are taking a growing share of the server market value and supply bottlenecks now include packaging and HBM. Meanwhile, power availability is becoming a gating factor in many regions, even when budgets are approved. 9% in 2024, continuously being squeezed out by budgets for AI servers.



Article Content

Nov 21, 2025

AI Server Market Size, Competitors & Forecast to 2030

Cloud AI platforms like AWS, Microsoft Azure, and Google Cloud, enable businesses to deploy sophisticated AI models without the need for specialized in-house

Mar 08, 2026

AI Server Market Size & Share, Statistics Report 2025-2034

Manufacturers of high-performance AI servers are not only experiencing significantly increased demand now, but they are also rushing to deploy robots and other autonomous systems into their product to

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Ibiden profits surge 89% on generative AI server demand

Ibiden achieved record earnings as strong demand for high-end IC package substrates offset significant impairment losses on PC-related assets.

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AI to Dominate Demand in 2025, While the Electronics

AI server demand—driven by data center consumption—will stand out as the sole growth engine, while end products such as smartphones,

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Chip stocks are soaring as AI investors rush in, but Harvard expert ...

Servers now account for 60%-70% of memory demand, up from around 30% before the AI boom, according to analysts at Jefferies.

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Strong Demand from CSPs and Sovereign Cloud to

TrendForce's latest analysis of the AI server market shows that demand from CSPs and sovereign cloud deployments will remain robust through

May 13, 2026

Global high-end AI server shipments to nearly triple in ...

DIGITIMES Research has upwardly revised the 2024 shipment forecasts for high-end AI servers and general AI servers to increase year-on-year by 182.6% and 54.2%, respectively,

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CCL price hikes to extend through 2026 with rising glass fiber and ...

Surging demand for high-end PCBs driven by AI servers and switches is intensifying supply imbalances for upstream materials. Industry sources said the rising cost of copper-clad

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Surging AI demand tightens supply of key PCB material

AI server PCB demand fuels fierce CCL material supply battle High-end PCB materials shortage looms as AI demand outpaces capacity

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Global high-end AI server shipments to soar in 2023,

DIGITIMES Research believes tight CoWoS capacity, which is needed for packaging HBM, will result in the supply of high-end AI servers falling

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See Generative AI's Impact on the AI Server Market to 2025

It's projected that AI servers will climb to about a 41.5% YoY growth in 2024, to meet the strong demand of CSPs and OEMs generative AI training and inference application.

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Global high-end AI server shipments to nearly triple in

In terms of high-end AI server shipments from manufacturers in 2024, Inventec, which had strong results in 2023, is expected to lead in L6 (server

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2026 Semiconductor Industry Outlook | Deloitte Insights

The semiconductor industry is navigating a high-stakes paradox in 2026. While soaring artificial intelligence-driven demand is pushing revenues to

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How AI Broke the Memory Market: Inside the 2024-2026 DRAM

Explore how AI data centers triggered the 2024-2026 DRAM, NAND, and HBM crunch, reshaping pricing, supply, and legacy memory availability. Through 2028+ AI era!

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AI to drive 165% increase in data center power demand

The explosion in interest in generative artificial intelligence has resulted in an arms race to develop the technology, which will require many high

Jan 14, 2026

China's \$1M Nvidia AI servers expose global chip squeeze

Prices for high-end AI servers in China are diverging sharply from global benchmarks, with systems built around Nvidia's B300 chips now fetching scarcity-driven premiums that reflect

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Global Memory Shortage Crisis: Market Analysis and

In late 2025, the global semiconductor ecosystem is experiencing an unprecedented memory chip shortage with knock-on effects for the device

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Taiwan PCB makers vie for AI server market with new 2026 capacity

Tags 2025 2026 AI server capacity demand GCE high-end infrastructure market PCB revenue shipments

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Trans-Sun Materials rides AI server wave with profit surge

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SK hynix Announces Q3 2025 Financial Results

SK hynix has announced record quarterly earnings in Q3 2025 following strong demand for AI memory products including HBM and high-performance server products.

Jul 27, 2025

AI Server Market Update: Vendors Shift from Silicon to Services

AI Server Market Update: Vendors Shift from Silicon to Services Dell, HPE, Lenovo, and Supermicro are riding record AI server demand, but winning enterprise customers requires more

Mar 19, 2026

Nvidia B300 AI server prices double in China amid US curbs

Nvidia's high-end B300 AI servers are now selling for about \$1 million in China, nearly double their US price, as tighter US export controls and smuggling crackdowns choke grey-market

Feb 26, 2026

Nvidia B300 server prices in China double to \$1M under US curbs

Prices for Nvidia's high-end B300 AI servers in China have surged to about \$1 million each, nearly double late last year, as U.S. export controls and smuggling crackdowns choke supply.

Jun 02, 2026

AI Server Market Size And Share | Industry Report, 2033

The demand for AI servers in the Asia Pacific is expected to be the fastest growing and is anticipated to register a lucrative CAGR from 2026 to 2033. The region's

Sep 02, 2025

AI Server Market report 2024-2030 [314 Pages & 252

The AI server market is experiencing rapid expansion, driven by rising demand from cloud providers to support hyperscale environments and generative AI workloads.

Jan 12, 2026

60+ AI Compute Demand Stats (2026) Spend, Servers,

Here we have compiled 60+ latest AI compute demand statistics on spending, server growth, supply constraints, data center capex and electricity

Feb 26, 2026

DIGITIMES Special Report - Global AI server market

In 2026, global shipments of high-end AI servers are expected to reach 1.49 million units. According to DIGITIMES' forecast, the AI server market demand will remain

Dec 22, 2025

Copper shock, AI PCB demand recasts global CCL pricing

Elite Material Co. invests in Taoyuan to boost high-end PCB production for AI demand
Nvidia weighs CCL performance and cost for VR

Oct 20, 2025

Surge in AI server demand from cloud service providers:

TrendForce's latest industry report reveals a sustained high demand for advanced AI servers from major cloud service providers (CSPs) and brand

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