

AI Server Supply and Demand Survey



Overview

Here we have compiled 60+ latest AI compute demand statistics on spending, server growth, supply constraints, data center capex and electricity demand. You can use these numbers to justify capacity decisions, align CTO, CIO and FinOps priorities and plan for 2026. DRAM suppliers keep reallocating capacity toward server-related applications. It is a core infrastructure constraint that can set your delivery timelines. 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. The AI server market is experiencing significant growth due to increasing acceptance across many sectors, the need for sturdy servers to support these complex algorithms and applications is also increasing. This is evident by KX, which introduced its KDB. 88 billion in 2024, at a CAGR of 34. The North America AI server market accounted. The global AI Servers Market was valued at 36500 million in 2024 and is projected to reach US\$ 111560 million by 2031, at a CAGR of 17.



Article Content

Jan 28, 2026

Artificial Intelligence (AI) Market | Global Report 2034

Artificial Intelligence (AI) Market Size, Share & Industry Analysis, By Component (Hardware, Software, Services), By

Jun 28, 2026

AI Data Centers Impact on Electric Bills, Water, and More

AI Data Centers: Big Tech's Impact on Electric Bills, Water, and More Massive data centers are gobbling up

Jun 21, 2026

AI server Market Size, Growth Report, 2026-2033

The rapid adoption of generative AI applications across various industries is driving market growth, with leading infrastructure

Oct 04, 2025

AI Server Demand to Drive Memory Contract Price Increases in 2Q26

TrendForce's latest memory pricing survey reveals that DRAM suppliers are reallocating capacity toward HBM and

Sep 30, 2025

DIGITIMES Special Report□Global AI server market

According to DIGITIMES' forecast, the AI server market demand will remain strong, with growth rates in

Aug 18, 2025

The State Of AI Infrastructure: Demand, Costs, And Custom Silicon

As AI-driven compute demands grow, we expect custom silicon to grow as a share of compute spend, as the time

Jan 01, 2026

AI Server Demand Continues to Support Memory Prices in 3Q26, but

TrendForce's latest memory pricing survey reveals that the DRAM market will remain extremely tight in the third quarter

Oct 16, 2025

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

The AI server market was valued at USD 128 billion in 2024 and is expected to grow at a CAGR of 28.2% between 2025 and 2034,

Oct 08, 2025

The State of AI in the Enterprise

Explore the Deloitte AI Institute's State of AI in the Enterprise report tracking AI investments, adoption,

Jan 01, 2026

Artificial Intelligence

Worldwide: The Artificial Intelligence market worldwide is expected to achieve a remarkable value of US\$617.62bn by the year 2026.

Jun 17, 2026

Executive summary - Key Questions on Energy and AI

Key Questions on Energy and AI - Analysis and key findings. A report by the International Energy Agency.

Jan 20, 2026

Global AI Server Demand Surge Expected to Drive 2024 Market

AI server market value is projected to reach over \$187 billion in 2024, with a growth rate of 69%, accounting for 65% of

Feb 04, 2026

Memory Market Outlook: AI Demand and Tight Supply Drive Resurgence

Explore the 2025 Memory Market Outlook, highlighting AI-driven demand, supply constraints, and projected growth

Jul 03, 2026

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

Latest AI compute demand stats on spending, AI servers, HBM and packaging constraints, data center capex and

Jan 26, 2026

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

The AI server market is experiencing rapid expansion, driven by rising demand from cloud providers to support hyperscale

May 17, 2026

Global AI server market and industry trends, 2025

The introduction of generative AI, particularly ChatGPT, has significantly impacted the demand for high-end AI servers

Sep 13, 2025

Global AI Server Demand Surge Expected to Drive 2024 ...

The overall HBM supply is expected to double by 2025 with the strong ongoing demand in the AI server market.

Nov 27, 2025

What we know about energy use at U.S. data centers amid the AI boom

Data centers accounted for 4% of total U.S. electricity use in 2024. Their energy demand is expected to more than

Jul 27, 2026

AI Server Market Size, Vendor Shares, and Investment Drivers

ABI research's latest report evaluates the surging AI server market. It forecasts market size through 2030, reveals

May 25, 2026

TrendForce: AI Server Market Will Keep Growing Through 2025, with ...

Additionally, AI servers are forecasted to account for over 70% of the total value of the entire server industry in 2025.

Aug 01, 2025

AI Servers Market 2025

We have surveyed the AI Servers manufacturers, suppliers, distributors, and industry experts on this industry, involving the sales,

Aug 25, 2025

2026 Global AI Server Market and Supply Chain | TrendForce

This report analyzes the global AI server market and supply chain, highlighting key players, tech shifts, and demand

Nov 26, 2025

RAM Shortage 2025: How AI Demand is Raising DRAM Prices

An analysis of the 2025 RAM shortage. Learn how massive AI demand for HBM is straining the DRAM supply, leading to

Apr 24, 2026

AI server market: cloud giants to command 60% demand in 2024

While demand from the cloud-tech giants could rise exponentially, AI server makers could face significant challenges

Aug 30, 2025

Dell Q1 FY 2027: AI Server Demand Drives Raised FY 2027 Outlook

Dell Q1 FY 2027 results show AI server momentum and higher guidance, with supply constraints shaping near-term

May 22, 2026

AI infrastructure gaps | Deloitte Insights

The AI age is expected to require scaling data centers, grid capacity, and supply chains. Deloitte's 2025 AI

May 12, 2026

AI Server Market Report: Size, Growth, Trends & Forecast (2025–2033)

The AI Server Market encompasses the production, distribution, and utilization of specialized computing systems meticulously

Mar 09, 2026

AI Server Demand to Drive Memory Contract Price Increases in 2Q26

Conventional DRAM contract prices expected to rise 58–63% QoQ in 2Q26; NAND Flash contract prices up 70–75%

Aug 23, 2025

AI Servers Market Size, Share & Trend 2035

The report analyzes different market portions; counting AI information servers, AI preparing servers, and AI deduction

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