

Future Demand Trends for AI Servers



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 through. Global shipments of high-end AI servers are expected to grow from 639,000 units in 2024 to 1. US hyperscale data center operators will be the primary customers. However, as the supply chain capacity increases to meet the demands of other customers, their share will also. AI Servers by Application (Internet, Telecommunications, Government, Healthcare, Other), by Types (CPU+GPU, CPU+FPGA, CPU+ASIC, Other), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United Kingdom, Germany, France, Italy). A comprehensive report by Global Market Insights Inc. projects the global AI server market was valued at USD 128 billion in 2024. 56 trillion in 2034, at a CAGR of 28. Market Leader: Nvidia Corporation led with over 31%. AI Server Market Size, Share and Trends Analysis Report By Processor Type (GPUs, CPUs, FPGAs, ASICs), By Form Factor (Rack-Mounted Servers, Blade Servers, Tower Servers, Microservers), By Deployment Model (On-Premises, Cloud, Hybrid), Memory Capacity (Up to 512GB, Up to 1TB, Up to 2TB, Over 2TB). AI compute is no longer a niche line item.



Article Content

AI Servers Market's Technological Evolution: Trends and Analysis

Key market insights include the rising demand for edge AI servers for real-time processing, a shift towards specialized

Artificial Intelligence (AI) Market

TRENDS & DISRUPTIONS IMPACTING CUSTOMERS' CUSTOMERS The artificial intelligence market is experiencing a significant

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

AI Data Center Market, Size, Share & Trend Analysis

AI DATA CENTER MARKET OVERVIEW According to Marketsandmarkets, the global AI data center market size is projected to

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

AI Server Market Size A comprehensive report by Global Market Insights Inc. projects the global AI server market was valued at

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%

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

Microsoft, Google, AWS, and Meta will collectively account for over 60% of global demand for high-end AI servers in

Outlook for 2H25 and 2026 Global AI Server Market and Supply Chain ...

The AI server market is growing rapidly due to generative AI, driven by cloud service providers. AI server shipments

2026 Data Center Trends: AI, Cooling & Power Insights

Explore 2026 data center trends, including AI workloads, liquid cooling, renewable energy, and security challenges. Stay ahead in

AI server Market Size, Growth Report, 2026-2033

The demand for AI servers in the Asia Pacific is expected to be the fastest growing and is anticipated to register a lucrative CAGR

DIGITIMES Special Report□Global AI server market

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

AI Server Market Size, Share, Global Trends Report

As of October 2025, the competitive trends in the AI Server Market are increasingly defined by digitalization,

AI Server Market Size, Competitors & Forecast to 2030

The AI Server Market, valued at USD 142.88B in 2024, is projected to reach USD 837.83B by 2030, growing at a 34.3% CAGR.

The State of AI: Global Survey 2025 | McKinsey

In this 2025 edition of the annual McKinsey Global Survey on AI, we look at the current

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

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

AI Chip Market Size, Share & Industry Trends, 2032

There is a spike in demand for AI chips with the rising deployment of AI servers in diversified AI-powered applications across several

Geopolitical pressures are impacting AI server growth – but

Global demand for AI servers remains strong in 2025, with "tier-one" North American cloud service providers (CSPs)

AI to drive 165% increase in data center power demand

By modeling future demand for each of these workload types, our analysts project power

AI Server Market Projected to Reach \$180B by 2032

Increased Adoption of AI: As industries such as IT, telecom, healthcare, and manufacturing adopt AI for automation,

Global AI Servers Market Size, Share, Industry Trends & Forecast

The convergence of hardware innovation, supply chain resilience, and enterprise demand for scalable, cost-effective

Executive summary – Energy and AI – Analysis

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

AI Server Market Size, Share, Growth Report, 2034

Growing demand for scalable and energy-efficient computing environments continues to shape the AI Server Market

AI Server Growth in 2025 Faces Uncertainties, DeepSeek Effect to

TrendForce's latest investigations reveal that global AI server shipments grew by 46% in 2024, driven by strong

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

Key trends include growing AI infrastructure investment, edge AI adoption, cloud/hybrid deployments, advanced server architectures,

Global AI Server Shipments Forecast to Grow Over 28% YoY in 2026,

The rapid growth of AI inference services is boosting demand for general-purpose servers, supporting both

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

TrendForce's latest industry report on AI servers reveals that high demand for advanced AI servers from major CSPs

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

The cost of compute power: A \$7 trillion race | McKinsey

AI is fueling high demand for compute power, spurring companies to invest billions of dollars

AI Market Trends 2026: Global Investment, Risks, and

Discover key market trends as AI becomes the central force influencing growth, earnings,

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