

# **AI Server Market Size, Share, & Trends Analysis Report By Processor (GPU-based Servers, FPGA-based Servers), By Cooling Technology (Air Cooling, Liquid Cooling), By Form Factor, By End Use (BFSI, Automotive), By Region, And Segment Forecasts, 2026 - 2033**

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## **Abstracts**

### AI Server Market Summary

The global AI server market size was estimated at USD 131.65 billion in 2025 and is projected to reach USD 598.12 billion by 2033, growing at a CAGR of 21.2% from 2026 to 2033. Cloud computing and hyperscale data center expansion are driving the market growth.

Major cloud service providers are investing heavily in AI-optimized server infrastructure to cater to the growing number of enterprises seeking AI-as-a-service solutions. These deployments often involve custom server architectures, which allow for better energy efficiency and computational throughput. Moreover, as organizations shift toward hybrid and multi-cloud strategies, the need for scalable, AI-optimized server systems within data centers becomes even more critical, supporting both centralized training and edge inferencing scenarios.

The rapid adoption of generative AI applications across various industries is driving market growth, with leading infrastructure providers such as the Supermicro AI server market ecosystem playing a key role in supplying high-performance, GPU-optimized server systems designed for AI workloads. From content creation and customer service automation to personalized marketing and drug discovery, generative AI is pushing the

boundaries of compute-intensive operations. These applications require highly specialized server architectures capable of supporting massive parallelism and fast data throughput. The surge in demand for generative models like GPT and DALL-E is compelling enterprises and cloud providers to invest heavily in AI servers that can manage such computational intensity with speed and reliability.

The rise of hybrid and multi-cloud strategies is also accelerating the deployment of AI servers. Enterprises are opting for flexible infrastructure models that allow seamless integration between on-premises systems and public cloud platforms. Artificial intelligence (AI) servers designed for hybrid deployments must be highly adaptable, scalable, and secure to ensure smooth data mobility and unified AI workloads across diverse environments. This flexibility is crucial for organizations looking to optimize cost efficiency, performance, and regulatory compliance when deploying AI solutions on a scale.

## Global AI Server Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the AI server market report based on processor, cooling technology, form factor, end use, and region:

Processor Outlook (Revenue, USD Billion, 2021 - 2033)

GPU-based Servers

FPGA-based Servers

ASIC-based Servers

Cooling Technology Outlook (Revenue, USD Billion, 2021 - 2033)

Air Cooling

Liquid Cooling

Hybrid Cooling

Form Factor Outlook (Revenue, USD Billion, 2021 - 2033)

Rack-mounted Servers

Blade Servers

Tower Servers

End Use Outlook (Revenue, USD Billion, 2021 - 2033)

IT & Telecommunication

BFSI

Retail & E-commerce

Healthcare & Pharmaceutical

Automotive

Others

Regional Outlook (Revenue, USD Billion, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

## Asia Pacific

China

India

Japan

South Korea

Australia

## Latin America

Brazil

## Middle East & Africa

UAE

Saudi Arabia

South Africa

**This report can be delivered to the clients within 5 Business Days**

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