

# **Generative AI Server Market Size, Share & Trends Analysis Report By Processor Type, By Function (Unit Testing, System Testing), By Form Factor, By Deployment Mode (On-Premises, Cloud), By Organization Size, By Application, By End-user (BFSI, Healthcare), By Region, And Segment Forecasts, 2026 - 2033**

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## **Abstracts**

### Generative AI Server Market Summary

The global generative AI server market size was estimated at USD 72.23 billion in 2025 and is projected to reach USD 380.14 billion by 2033, growing at a CAGR of 23.3% from 2026 to 2033. The market is witnessing rapid expansion, driven by the surge in demand for large language models (LLMs), multimodal AI systems, and AI-powered content generation across industries.

These servers form the backbone of generative AI infrastructure, enabling high-performance training and inference workloads through advanced GPUs, accelerators, and high-bandwidth memory architectures. The market is currently in a high-growth phase, supported by significant capital investments from hyperscalers and enterprises to build scalable AI infrastructure.

Growth is primarily fueled by increasing adoption of generative AI applications such as content generation, virtual assistants, recommendation systems, and computer vision, along with the expanding cloud services market, which enables scalable computing infrastructure, high-performance data processing, and efficient deployment of AI workloads. Industries including media & entertainment, BFSI, healthcare, and IT &

telecom are leading adoption due to the high value derived from automation, personalization, data-driven decision-making, and cloud-based AI integration capabilities.

GPU-based servers currently dominate the market owing to their flexibility and strong ecosystem support, particularly for training large models. However, ASIC-based servers are expected to witness the fastest growth over the forecast period due to their efficiency advantages in inference workloads. In terms of form factor, rack-mounted servers account for the largest share due to their widespread use in hyperscale data centers, while blade servers are gaining momentum as organizations prioritize higher density and modularity.

Consequently, the market is expected to grow at a strong CAGR through 2033, slightly outpacing the broader AI server market in the near term. The penetration of generative AI workloads within total AI infrastructure will continue to rise, although growth will gradually stabilize as non-generative AI applications expand and efficiency improvements reduce compute intensity. Overall, the market is transitioning from an early, hype-driven expansion phase to a more balanced and diversified growth trajectory, with generative AI remaining a central driver of global AI infrastructure investments.

## Global Generative 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 global generative AI server market report based on processor type, function, form factor, deployment mode, organization size, application, end-user, and region:

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

GPU-based Servers

FPGA-based Servers

ASIC-based Servers

### Function Outlook (Revenue, USD Billion, 2021 - 2033)

Unit Testing

System Testing

Integration Testing

User Acceptance Testing (UAT)

Others

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

Rack-mounted Servers

Blade Servers

Tower Servers

Deployment Mode Outlook (Revenue, USD Billion, 2021 - 2033)

On-Premises

Cloud

Organization Size Outlook (Revenue, USD Billion, 2021 - 2033)

Large Enterprises

SMEs

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

Content Generation

Virtual Assistants/Chatbots

Recommendation Systems

Computer Vision/Imaging

Gaming & VR/AR

Healthcare & R&D

Marketing & Advertising

Others

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

BFSI

Healthcare

IT & Telecom

Retail & E-commerce

Media & Entertainment

Automotive & Manufacturing

Government & Defense

Others

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

North America

U.S.

Canada

Mexico

Europe

UK

Germany

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 8 Business Days**

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