

Global AI Server Market Size Study, By Hardware (GPU, ASIC, FPGA, CPU), By End User (IT & Telecommunication, Transportation and Automotive, BFSI, Retail and E-commerce, Healthcare and Pharmaceutical, Industrial Automation), By Servers (AI Data Server, AI Training Server, AI Inference Server) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G920FFDA1C51EN.html>

Date: January 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: G920FFDA1C51EN

Abstracts

The global AI server market is valued at approximately USD 106.39 billion in 2023 and is projected to grow with a robust CAGR of over 34.3% during the forecast period of 2024 to 2032. AI servers are specialized computing systems designed to optimize artificial intelligence (AI) workloads by providing high-performance hardware and software solutions. These servers are instrumental in advancing AI-driven applications like machine learning, deep learning, and predictive analytics. They address the increasing computational requirements of industries such as healthcare, finance, IT, and manufacturing, where AI adoption is rapidly expanding.

AI servers are integral to modern digital ecosystems, enabling efficient data processing, faster model training, and real-time decision-making. The global AI server market is witnessing exponential growth due to increasing investments in AI infrastructure and innovations in hardware technologies. For instance, the introduction of advanced GPUs and TPUs with capabilities optimized for AI training and inference is transforming the industry.

The demand for AI servers is fueled by the rapid adoption of AI applications across various industries. These servers are essential for businesses to process large volumes of data, optimize operations, and gain a competitive edge. For example, the integration

of AI servers in healthcare facilitates personalized medicine, predictive diagnostics, and efficient patient management. Similarly, in the retail sector, AI servers support predictive analytics, customer behavior analysis, and inventory optimization.

The growth of edge AI solutions has significantly influenced the AI server market, with organizations increasingly adopting AI servers for localized processing. Edge AI reduces latency, enhances data privacy, and ensures real-time analytics. Moreover, the advancements in cloud-based AI solutions further boost market growth, allowing businesses to access scalable computing resources without extensive capital investments.

The North American market currently dominates the AI server industry due to the early adoption of AI technologies and a strong presence of key players like Foxconn and Nvidia Corporation. Europe and Asia-Pacific regions are also experiencing substantial growth, driven by increasing investments in AI infrastructure and supportive government policies. Notably, countries like China and India are emerging as major players, leveraging their dynamic startup ecosystems to propel AI advancements.

Major market players included in this report are:

Foxconn

Quanta Computer Inc.

Nvidia Corporation

Hewlett Packard Enterprise Company

Intel Corporation

Inventec Corporation

MiTAC International Corporation

Super Micro Computer, Inc.

Wistron Corporation

Wiwynn Corporation

AMD

Oracle

Cisco Systems, Inc.

IBM Corporation

Google LLC

The detailed segments and sub-segment of the market are explained below:

By Servers

AI Data Server

AI Training Server

AI Inference Server

Others

By Hardware

GPU

ASIC

FPGA

CPU

Others

By End User

IT & Telecommunication

Transportation and Automotive

BFSI

Retail and E-commerce

Healthcare and Pharmaceutical

Industrial Automation

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Russia

Nordics

Asia Pacific

China

India

Japan

South Korea

Australia

Singapore

Latin America

Brazil

Mexico

Argentina

Middle East & Africa

UAE

Saudi Arabia

South Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Demand-side and supply-side analysis of the market.

Contents

CHAPTER 1. GLOBAL AI SERVER MARKET EXECUTIVE SUMMARY

- 1.1. Global AI Server Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Servers
 - 1.3.2. By Hardware
 - 1.3.3. By End User
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendations & Conclusion

CHAPTER 2. GLOBAL AI SERVER MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL AI SERVER MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Increasing Demand for AI Applications
- 3.1.2. Continuous Advancements in AI-Specific Hardware
- 3.1.3. Growing Investments in AI Research
- 3.1.4. Increasing Adoption of Cloud-Based AI Services

3.2. Market Challenges

- 3.2.1. High Costs of High-Performance Hardware
- 3.2.2. Energy Consumption and Efficiency Issues
- 3.2.3. Integration with Legacy IT Infrastructure

3.3. Market Opportunities

- 3.3.1. Rising Edge AI Adoption
- 3.3.2. Expansion in Developing Economies
- 3.3.3. Growing AI Server Use in Emerging Industries

CHAPTER 4. GLOBAL AI SERVER MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economic
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top Investment Opportunities

4.4. Top Winning Strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspectives

4.7. Analyst Recommendations & Conclusion

CHAPTER 5. GLOBAL AI SERVER MARKET SIZE & FORECASTS BY SERVERS 2022-2032

5.1. Segment Dashboard

5.2. Global AI Server Market: Servers Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. AI Data Server

5.2.2. AI Training Server

5.2.3. AI Inference Server

5.2.4. Others

CHAPTER 6. GLOBAL AI SERVER MARKET SIZE & FORECASTS BY HARDWARE 2022-2032

6.1. Segment Dashboard

6.2. Global AI Server Market: Hardware Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. GPU

6.2.2. ASIC

6.2.3. FPGA

6.2.4. CPU

6.2.5. Others

CHAPTER 7. GLOBAL AI SERVER MARKET SIZE & FORECASTS BY END USER 2022-2032

7.1. Segment Dashboard

7.2. Global AI Server Market: End User Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. IT & Telecommunication

7.2.2. Transportation and Automotive

7.2.3. BFSI

7.2.4. Retail and E-commerce

7.2.5. Healthcare and Pharmaceutical

7.2.6. Industrial Automation

7.2.7. Others

CHAPTER 8. GLOBAL AI SERVER MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America AI Server Market

- 8.1.1. U.S. AI Server Market
- 8.1.2. Canada AI Server Market
- 8.2. Europe AI Server Market
 - 8.2.1. UK AI Server Market
 - 8.2.2. Germany AI Server Market
 - 8.2.3. France AI Server Market
 - 8.2.4. Italy AI Server Market
 - 8.2.5. Spain AI Server Market
 - 8.2.6. Russia AI Server Market
 - 8.2.7. Nordics AI Server Market
 - 8.2.8. Rest of Europe AI Server Market
- 8.3. Asia-Pacific AI Server Market
 - 8.3.1. China AI Server Market
 - 8.3.2. India AI Server Market
 - 8.3.3. Japan AI Server Market
 - 8.3.4. South Korea AI Server Market
 - 8.3.5. Australia AI Server Market
 - 8.3.6. Singapore AI Server Market
 - 8.3.7. Rest of Asia Pacific AI Server Market
- 8.4. Latin America AI Server Market
 - 8.4.1. Brazil AI Server Market
 - 8.4.2. Mexico AI Server Market
 - 8.4.3. Argentina AI Server Market
 - 8.4.4. Rest of Latin America AI Server Market
- 8.5. Middle East & Africa AI Server Market
 - 8.5.1. UAE AI Server Market
 - 8.5.2. Saudi Arabia AI Server Market
 - 8.5.3. South Africa AI Server Market
 - 8.5.4. Rest of MEA AI Server Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Foxconn
 - 9.1.2. Quanta Computer Inc.
 - 9.1.3. Nvidia Corporation
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Foxconn

- 9.3.1.1. Key Information
- 9.3.1.2. Overview
- 9.3.1.3. Financial (Subject to Data Availability)
- 9.3.1.4. Product Summary
- 9.3.1.5. Market Strategies
- 9.3.2. Hewlett Packard Enterprise Company
- 9.3.3. Intel Corporation
- 9.3.4. Inventec Corporation
- 9.3.5. MiTAC International Corporation
- 9.3.6. Super Micro Computer, Inc.
- 9.3.7. Wistron Corporation
- 9.3.8. Wiwynn Corporation

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

12. LIST OF TABLES

TABLE 1. Global AI Server Market Report Scope

TABLE 2. Global AI Server Market Estimates & Forecasts by Region, 2022-2032 (USD Billion)

TABLE 3. Global AI Server Market Estimates & Forecasts by Servers, 2022-2032 (USD Billion)

TABLE 4. Global AI Server Market Estimates & Forecasts by Hardware, 2022-2032 (USD Billion)

TABLE 5. Global AI Server Market Estimates & Forecasts by End User, 2022-2032 (USD Billion)

12. LIST OF FIGURES

FIG 1. Global AI Server Market Research Methodology

FIG 2. Global AI Server Market Estimation Techniques

FIG 3. Global AI Server Market Key Trends (2023)

FIG 4. Global AI Server Market Growth Prospects (2022-2032)

FIG 5. Global AI Server Market Porters' 5 Forces Analysis

FIG 6. Global AI Server Market PESTEL Analysis

This list is not complete; the final report contains more than 50 figures. The list may be updated in the final deliverable.

I would like to order

Product name: Global AI Server Market Size Study, By Hardware (GPU, ASIC, FPGA, CPU), By End User (IT & Telecommunication, Transportation and Automotive, BFSI, Retail and E-commerce, Healthcare and Pharmaceutical, Industrial Automation), By Servers (AI Data Server, AI Training Server, AI Inference Server) and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G920FFDA1C51EN.html>

Price: US\$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G920FFDA1C51EN.html>