

Global AI Server Processors Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GEE1812A1E92EN.html>

Date: January 2026

Pages: 143

Price: US\$ 4,480.00 (Single User License)

ID: GEE1812A1E92EN

Abstracts

The global AI Server Processors market size is expected to reach \$ 58029 million by 2032, rising at a market growth of 19.6% CAGR during the forecast period (2026-2032). AI Server Processors (CPU+GPU+ASIC+FPGA): These refer to a collection of key processors and accelerator silicon devices deployed in data center/server room environments for high-parallel computing workloads such as AI training and inference. They include at least a host CPU and one or more AI acceleration chips (GPU/AI ASIC/FPGA), working in conjunction with memory, network, and storage via PCIe, dedicated high-speed interconnects, etc. Functionally, they can be categorized as: CPU (task scheduling, I/O, and system stack support); GPU (general-purpose parallel and tensor computing, the main force for training); AI ASIC (dedicated acceleration for specific operators/dataflows, handling inference/training or both); and FPGA (reconfigurable logic acceleration, commonly used for low-latency inference, network/storage/security data path offloading). Typical application scenarios include: large model training clusters, inference services (online/offline), recommendation/search, video understanding, scientific computing, and enterprise private AI deployments.

Within a single AI server, the CPU is responsible for the system stack, virtualization, workload orchestration, and network/storage I/O; the GPU remains the primary compute asset for training and general-purpose inference, but its deliverability is increasingly constrained by HBM supply and advanced-packaging allocations, interconnect capability, and the maturity of the software stack; ASICs are rising rapidly as inference scales, driven by superior cost per token and improved supply controllability; and FPGAs play more of a reconfigurable ?infrastructure silicon? role, creating value in low-latency pre/post-processing for inference, network/storage offload, and SmartNIC or datapath customization use cases.

On the demand side, power and thermal management are becoming hard constraints.

The upward trajectory of data center electricity consumption is shifting buyer evaluation from peak compute toward end-to-end throughput/latency, energy efficiency (performance per watt), and delivery lead times while also accelerating a procurement shift from standalone cards to integrated offerings that bundle cards/servers/racks + networking + software as a unified solution.

On the supply side, the expansion pace of HBM and advanced packaging effectively caps the industry's short- to mid-term growth ceiling, and long-term supply agreements plus allocation mechanisms are taking on greater weight in commercial terms.

For CPUs, diligence should focus on platform generation cycles and deliverability milestones. For example, AMD's EPYC Turin launch has driven upgrades in AI host platforms, and the company has disclosed silicon milestones for the next-generation EPYC Venice on advanced process nodes to anchor the subsequent supply window; Intel, meanwhile, has pursued differentiated core strategies across the Xeon 6 generation and followed with P-core product releases to strengthen its host-CPU proposition for AI servers.

For GPUs, assessment must cover the combined silicon + system cadence:

NVIDIA's progression from H200 to Blackwell (B200/GB200) and onward to the Vera Rubin platform along with ramp risks in rack-scale delivery stemming from thermal design and software engineering readiness will directly determine the real-world ramp curve and supply allocation.

AMD is similarly advancing ecosystem scale-up through MI325X, the MI350 series, and a rack-level platform roadmap, with the key determinant being whether OEMs and cloud providers can establish repeatable, scaled cluster deployment playbooks.

This report studies the global AI Server Processors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Server Processors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Server Processors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Server Processors total production and demand, 2021-2032, (Million Units)

Global AI Server Processors total production value, 2021-2032, (USD Million)

Global AI Server Processors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global AI Server Processors consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: AI Server Processors domestic production, consumption, key domestic manufacturers and share

Global AI Server Processors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global AI Server Processors production by Function, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global AI Server Processors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global AI Server Processors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, Intel, AMD, Huawei Ascend, Qualcomm, IBM, Cerebras, Ampere, Graphcore, Groq, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI Server Processors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Function, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI Server Processors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Server Processors Market, Segmentation by Function:

GPU

FPGA

ASIC

GPU

Global AI Server Processors Market, Segmentation by Type:

Training Processors

Inference Processors

Global AI Server Processors Market, Segmentation by Deployment:

Cloud Processors

Edge Processors

Terminal Processors

Global AI Server Processors Market, Segmentation by Application:

CPU+GPU Servers

CPU+FPGA Servers

CPU+ASIC Servers

Others

Companies Profiled:

NVIDIA

Intel

AMD

Huawei Ascend

Qualcomm

IBM

Cerebras

Ampere

Graphcore

Groq

Cambrian

Moore Threads

MetaX

Shanghai Biren Technology

Enflame

Microchip

Lattice

Achronix

Key Questions Answered:

1. How big is the global AI Server Processors market?

2. What is the demand of the global AI Server Processors market?
3. What is the year over year growth of the global AI Server Processors market?
4. What is the production and production value of the global AI Server Processors market?
5. Who are the key producers in the global AI Server Processors market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 AI Server Processors Introduction
- 1.2 World AI Server Processors Supply & Forecast
 - 1.2.1 World AI Server Processors Production Value (2021 & 2025 & 2032)
 - 1.2.2 World AI Server Processors Production (2021-2032)
 - 1.2.3 World AI Server Processors Pricing Trends (2021-2032)
- 1.3 World AI Server Processors Production by Region (Based on Production Site)
 - 1.3.1 World AI Server Processors Production Value by Region (2021-2032)
 - 1.3.2 World AI Server Processors Production by Region (2021-2032)
 - 1.3.3 World AI Server Processors Average Price by Region (2021-2032)
 - 1.3.4 USA AI Server Processors Production (2021-2032)
 - 1.3.5 South Korea AI Server Processors Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 AI Server Processors Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 AI Server Processors Major Market Trends

2 DEMAND SUMMARY

- 2.1 World AI Server Processors Demand (2021-2032)
- 2.2 World AI Server Processors Consumption by Region
 - 2.2.1 World AI Server Processors Consumption by Region (2021-2026)
 - 2.2.2 World AI Server Processors Consumption Forecast by Region (2027-2032)
- 2.3 United States AI Server Processors Consumption (2021-2032)
- 2.4 China AI Server Processors Consumption (2021-2032)
- 2.5 Europe AI Server Processors Consumption (2021-2032)
- 2.6 Japan AI Server Processors Consumption (2021-2032)
- 2.7 South Korea AI Server Processors Consumption (2021-2032)
- 2.8 ASEAN AI Server Processors Consumption (2021-2032)
- 2.9 India AI Server Processors Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World AI Server Processors Production Value by Manufacturer (2021-2026)
- 3.2 World AI Server Processors Production by Manufacturer (2021-2026)
- 3.3 World AI Server Processors Average Price by Manufacturer (2021-2026)

- 3.4 AI Server Processors Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global AI Server Processors Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for AI Server Processors in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for AI Server Processors in 2025
- 3.6 AI Server Processors Market: Overall Company Footprint Analysis
 - 3.6.1 AI Server Processors Market: Region Footprint
 - 3.6.2 AI Server Processors Market: Company Product Type Footprint
 - 3.6.3 AI Server Processors Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: AI Server Processors Production Value Comparison
 - 4.1.1 United States VS China: AI Server Processors Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: AI Server Processors Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: AI Server Processors Production Comparison
 - 4.2.1 United States VS China: AI Server Processors Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: AI Server Processors Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: AI Server Processors Consumption Comparison
 - 4.3.1 United States VS China: AI Server Processors Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: AI Server Processors Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based AI Server Processors Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based AI Server Processors Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers AI Server Processors Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers AI Server Processors Production (2021-2026)
- 4.5 China Based AI Server Processors Manufacturers and Market Share
 - 4.5.1 China Based AI Server Processors Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers AI Server Processors Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers AI Server Processors Production (2021-2026)
- 4.6 Rest of World Based AI Server Processors Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based AI Server Processors Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers AI Server Processors Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers AI Server Processors Production (2021-2026)

5 MARKET ANALYSIS BY FUNCTION

- 5.1 World AI Server Processors Market Size Overview by Function: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Function
 - 5.2.1 GPU
 - 5.2.2 FPGA
 - 5.2.3 ASIC
 - 5.2.4 GPU
- 5.3 Market Segment by Function
 - 5.3.1 World AI Server Processors Production by Function (2021-2032)
 - 5.3.2 World AI Server Processors Production Value by Function (2021-2032)
 - 5.3.3 World AI Server Processors Average Price by Function (2021-2032)

6 MARKET ANALYSIS BY TYPE

- 6.1 World AI Server Processors Market Size Overview by Type: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Type
 - 6.2.1 Training Processors
 - 6.2.2 Inference Processors
- 6.3 Market Segment by Type
 - 6.3.1 World AI Server Processors Production by Type (2021-2032)
 - 6.3.2 World AI Server Processors Production Value by Type (2021-2032)

6.3.3 World AI Server Processors Average Price by Type (2021-2032)

7 MARKET ANALYSIS BY DEPLOYMENT

7.1 World AI Server Processors Market Size Overview by Deployment: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Deployment

7.2.1 Cloud Processors

7.2.2 Edge Processors

7.2.3 Terminal Processors

7.3 Market Segment by Deployment

7.3.1 World AI Server Processors Production by Deployment (2021-2032)

7.3.2 World AI Server Processors Production Value by Deployment (2021-2032)

7.3.3 World AI Server Processors Average Price by Deployment (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World AI Server Processors Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 CPU+GPU Servers

8.2.2 CPU+FPGA Servers

8.2.3 CPU+ASIC Servers

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World AI Server Processors Production by Application (2021-2032)

8.3.2 World AI Server Processors Production Value by Application (2021-2032)

8.3.3 World AI Server Processors Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 NVIDIA

9.1.1 NVIDIA Details

9.1.2 NVIDIA Major Business

9.1.3 NVIDIA AI Server Processors Product and Services

9.1.4 NVIDIA AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 NVIDIA Recent Developments/Updates

9.1.6 NVIDIA Competitive Strengths & Weaknesses

9.2 Intel

9.2.1 Intel Details

9.2.2 Intel Major Business

9.2.3 Intel AI Server Processors Product and Services

9.2.4 Intel AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Intel Recent Developments/Updates

9.2.6 Intel Competitive Strengths & Weaknesses

9.3 AMD

9.3.1 AMD Details

9.3.2 AMD Major Business

9.3.3 AMD AI Server Processors Product and Services

9.3.4 AMD AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 AMD Recent Developments/Updates

9.3.6 AMD Competitive Strengths & Weaknesses

9.4 Huawei Ascend

9.4.1 Huawei Ascend Details

9.4.2 Huawei Ascend Major Business

9.4.3 Huawei Ascend AI Server Processors Product and Services

9.4.4 Huawei Ascend AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Huawei Ascend Recent Developments/Updates

9.4.6 Huawei Ascend Competitive Strengths & Weaknesses

9.5 Qualcomm

9.5.1 Qualcomm Details

9.5.2 Qualcomm Major Business

9.5.3 Qualcomm AI Server Processors Product and Services

9.5.4 Qualcomm AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Qualcomm Recent Developments/Updates

9.5.6 Qualcomm Competitive Strengths & Weaknesses

9.6 IBM

9.6.1 IBM Details

9.6.2 IBM Major Business

9.6.3 IBM AI Server Processors Product and Services

9.6.4 IBM AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 IBM Recent Developments/Updates

9.6.6 IBM Competitive Strengths & Weaknesses

9.7 Cerebras

9.7.1 Cerebras Details

9.7.2 Cerebras Major Business

9.7.3 Cerebras AI Server Processors Product and Services

9.7.4 Cerebras AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Cerebras Recent Developments/Updates

9.7.6 Cerebras Competitive Strengths & Weaknesses

9.8 Ampere

9.8.1 Ampere Details

9.8.2 Ampere Major Business

9.8.3 Ampere AI Server Processors Product and Services

9.8.4 Ampere AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Ampere Recent Developments/Updates

9.8.6 Ampere Competitive Strengths & Weaknesses

9.9 Graphcore

9.9.1 Graphcore Details

9.9.2 Graphcore Major Business

9.9.3 Graphcore AI Server Processors Product and Services

9.9.4 Graphcore AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Graphcore Recent Developments/Updates

9.9.6 Graphcore Competitive Strengths & Weaknesses

9.10 Groq

9.10.1 Groq Details

9.10.2 Groq Major Business

9.10.3 Groq AI Server Processors Product and Services

9.10.4 Groq AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Groq Recent Developments/Updates

9.10.6 Groq Competitive Strengths & Weaknesses

9.11 Cambrian

9.11.1 Cambrian Details

9.11.2 Cambrian Major Business

9.11.3 Cambrian AI Server Processors Product and Services

9.11.4 Cambrian AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.11.5 Cambrian Recent Developments/Updates
- 9.11.6 Cambrian Competitive Strengths & Weaknesses
- 9.12 Moore Threads
 - 9.12.1 Moore Threads Details
 - 9.12.2 Moore Threads Major Business
 - 9.12.3 Moore Threads AI Server Processors Product and Services
 - 9.12.4 Moore Threads AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Moore Threads Recent Developments/Updates
 - 9.12.6 Moore Threads Competitive Strengths & Weaknesses
- 9.13 MetaX
 - 9.13.1 MetaX Details
 - 9.13.2 MetaX Major Business
 - 9.13.3 MetaX AI Server Processors Product and Services
 - 9.13.4 MetaX AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 MetaX Recent Developments/Updates
 - 9.13.6 MetaX Competitive Strengths & Weaknesses
- 9.14 Shanghai Biren Technology
 - 9.14.1 Shanghai Biren Technology Details
 - 9.14.2 Shanghai Biren Technology Major Business
 - 9.14.3 Shanghai Biren Technology AI Server Processors Product and Services
 - 9.14.4 Shanghai Biren Technology AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Shanghai Biren Technology Recent Developments/Updates
 - 9.14.6 Shanghai Biren Technology Competitive Strengths & Weaknesses
- 9.15 Enflame
 - 9.15.1 Enflame Details
 - 9.15.2 Enflame Major Business
 - 9.15.3 Enflame AI Server Processors Product and Services
 - 9.15.4 Enflame AI Server Processors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Enflame Recent Developments/Updates
 - 9.15.6 Enflame Competitive Strengths & Weaknesses
- 9.16 Microchip
 - 9.16.1 Microchip Details
 - 9.16.2 Microchip Major Business
 - 9.16.3 Microchip AI Server Processors Product and Services
 - 9.16.4 Microchip AI Server Processors Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.16.5 Microchip Recent Developments/Updates

9.16.6 Microchip Competitive Strengths & Weaknesses

9.17 Lattice

9.17.1 Lattice Details

9.17.2 Lattice Major Business

9.17.3 Lattice AI Server Processors Product and Services

9.17.4 Lattice AI Server Processors Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.17.5 Lattice Recent Developments/Updates

9.17.6 Lattice Competitive Strengths & Weaknesses

9.18 Achronix

9.18.1 Achronix Details

9.18.2 Achronix Major Business

9.18.3 Achronix AI Server Processors Product and Services

9.18.4 Achronix AI Server Processors Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.18.5 Achronix Recent Developments/Updates

9.18.6 Achronix Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 AI Server Processors Industry Chain

10.2 AI Server Processors Upstream Analysis

10.2.1 AI Server Processors Core Raw Materials

10.2.2 Main Manufacturers of AI Server Processors Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 AI Server Processors Production Mode

10.6 AI Server Processors Procurement Model

10.7 AI Server Processors Industry Sales Model and Sales Channels

10.7.1 AI Server Processors Sales Model

10.7.2 AI Server Processors Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World AI Server Processors Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World AI Server Processors Production Value by Region (2021-2026) & (USD Million)

Table 3. World AI Server Processors Production Value by Region (2027-2032) & (USD Million)

Table 4. World AI Server Processors Production Value Market Share by Region (2021-2026)

Table 5. World AI Server Processors Production Value Market Share by Region (2027-2032)

Table 6. World AI Server Processors Production by Region (2021-2026) & (Million Units)

Table 7. World AI Server Processors Production by Region (2027-2032) & (Million Units)

Table 8. World AI Server Processors Production Market Share by Region (2021-2026)

Table 9. World AI Server Processors Production Market Share by Region (2027-2032)

Table 10. World AI Server Processors Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World AI Server Processors Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. AI Server Processors Major Market Trends

Table 13. World AI Server Processors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World AI Server Processors Consumption by Region (2021-2026) & (Million Units)

Table 15. World AI Server Processors Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World AI Server Processors Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key AI Server Processors Producers in 2025

Table 18. World AI Server Processors Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key AI Server Processors Producers in 2025

Table 20. World AI Server Processors Average Price by Manufacturer (2021-2026) &

(US\$/Unit)

Table 21. Global AI Server Processors Company Evaluation Quadrant

Table 22. World AI Server Processors Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and AI Server Processors Production Site of Key Manufacturer

Table 24. AI Server Processors Market: Company Product Type Footprint

Table 25. AI Server Processors Market: Company Product Application Footprint

Table 26. AI Server Processors Competitive Factors

Table 27. AI Server Processors New Entrant and Capacity Expansion Plans

Table 28. AI Server Processors Mergers & Acquisitions Activity

Table 29. United States VS China AI Server Processors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China AI Server Processors Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China AI Server Processors Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based AI Server Processors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers AI Server Processors Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers AI Server Processors Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers AI Server Processors Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers AI Server Processors Production Market Share (2021-2026)

Table 37. China Based AI Server Processors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers AI Server Processors Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers AI Server Processors Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers AI Server Processors Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers AI Server Processors Production Market Share (2021-2026)

Table 42. Rest of World Based AI Server Processors Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers AI Server Processors Production Value,

(2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers AI Server Processors Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers AI Server Processors Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers AI Server Processors Production Market Share (2021-2026)

Table 47. World AI Server Processors Production Value by Function, (USD Million), 2021 & 2025 & 2032

Table 48. World AI Server Processors Production by Function (2021-2026) & (Million Units)

Table 49. World AI Server Processors Production by Function (2027-2032) & (Million Units)

Table 50. World AI Server Processors Production Value by Function (2021-2026) & (USD Million)

Table 51. World AI Server Processors Production Value by Function (2027-2032) & (USD Million)

Table 52. World AI Server Processors Average Price by Function (2021-2026) & (US\$/Unit)

Table 53. World AI Server Processors Average Price by Function (2027-2032) & (US\$/Unit)

Table 54. World AI Server Processors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 55. World AI Server Processors Production by Type (2021-2026) & (Million Units)

Table 56. World AI Server Processors Production by Type (2027-2032) & (Million Units)

Table 57. World AI Server Processors Production Value by Type (2021-2026) & (USD Million)

Table 58. World AI Server Processors Production Value by Type (2027-2032) & (USD Million)

Table 59. World AI Server Processors Average Price by Type (2021-2026) & (US\$/Unit)

Table 60. World AI Server Processors Average Price by Type (2027-2032) & (US\$/Unit)

Table 61. World AI Server Processors Production Value by Deployment, (USD Million), 2021 & 2025 & 2032

Table 62. World AI Server Processors Production by Deployment (2021-2026) & (Million Units)

Table 63. World AI Server Processors Production by Deployment (2027-2032) & (Million Units)

Table 64. World AI Server Processors Production Value by Deployment (2021-2026) & (USD Million)

Table 65. World AI Server Processors Production Value by Deployment (2027-2032) & (USD Million)

Table 66. World AI Server Processors Average Price by Deployment (2021-2026) & (US\$/Unit)

Table 67. World AI Server Processors Average Price by Deployment (2027-2032) & (US\$/Unit)

Table 68. World AI Server Processors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World AI Server Processors Production by Application (2021-2026) & (Million Units)

Table 70. World AI Server Processors Production by Application (2027-2032) & (Million Units)

Table 71. World AI Server Processors Production Value by Application (2021-2026) & (USD Million)

Table 72. World AI Server Processors Production Value by Application (2027-2032) & (USD Million)

Table 73. World AI Server Processors Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World AI Server Processors Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. NVIDIA Basic Information, Manufacturing Base and Competitors

Table 76. NVIDIA Major Business

Table 77. NVIDIA AI Server Processors Product and Services

Table 78. NVIDIA AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. NVIDIA Recent Developments/Updates

Table 80. NVIDIA Competitive Strengths & Weaknesses

Table 81. Intel Basic Information, Manufacturing Base and Competitors

Table 82. Intel Major Business

Table 83. Intel AI Server Processors Product and Services

Table 84. Intel AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Intel Recent Developments/Updates

Table 86. Intel Competitive Strengths & Weaknesses

Table 87. AMD Basic Information, Manufacturing Base and Competitors

Table 88. AMD Major Business

Table 89. AMD AI Server Processors Product and Services

Table 90. AMD AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 91. AMD Recent Developments/Updates
- Table 92. AMD Competitive Strengths & Weaknesses
- Table 93. Huawei Ascend Basic Information, Manufacturing Base and Competitors
- Table 94. Huawei Ascend Major Business
- Table 95. Huawei Ascend AI Server Processors Product and Services
- Table 96. Huawei Ascend AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Huawei Ascend Recent Developments/Updates
- Table 98. Huawei Ascend Competitive Strengths & Weaknesses
- Table 99. Qualcomm Basic Information, Manufacturing Base and Competitors
- Table 100. Qualcomm Major Business
- Table 101. Qualcomm AI Server Processors Product and Services
- Table 102. Qualcomm AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Qualcomm Recent Developments/Updates
- Table 104. Qualcomm Competitive Strengths & Weaknesses
- Table 105. IBM Basic Information, Manufacturing Base and Competitors
- Table 106. IBM Major Business
- Table 107. IBM AI Server Processors Product and Services
- Table 108. IBM AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. IBM Recent Developments/Updates
- Table 110. IBM Competitive Strengths & Weaknesses
- Table 111. Cerebras Basic Information, Manufacturing Base and Competitors
- Table 112. Cerebras Major Business
- Table 113. Cerebras AI Server Processors Product and Services
- Table 114. Cerebras AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Cerebras Recent Developments/Updates
- Table 116. Cerebras Competitive Strengths & Weaknesses
- Table 117. Ampere Basic Information, Manufacturing Base and Competitors
- Table 118. Ampere Major Business
- Table 119. Ampere AI Server Processors Product and Services
- Table 120. Ampere AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Ampere Recent Developments/Updates
- Table 122. Ampere Competitive Strengths & Weaknesses

- Table 123. Graphcore Basic Information, Manufacturing Base and Competitors
- Table 124. Graphcore Major Business
- Table 125. Graphcore AI Server Processors Product and Services
- Table 126. Graphcore AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Graphcore Recent Developments/Updates
- Table 128. Graphcore Competitive Strengths & Weaknesses
- Table 129. Groq Basic Information, Manufacturing Base and Competitors
- Table 130. Groq Major Business
- Table 131. Groq AI Server Processors Product and Services
- Table 132. Groq AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Groq Recent Developments/Updates
- Table 134. Groq Competitive Strengths & Weaknesses
- Table 135. Cambrian Basic Information, Manufacturing Base and Competitors
- Table 136. Cambrian Major Business
- Table 137. Cambrian AI Server Processors Product and Services
- Table 138. Cambrian AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Cambrian Recent Developments/Updates
- Table 140. Cambrian Competitive Strengths & Weaknesses
- Table 141. Moore Threads Basic Information, Manufacturing Base and Competitors
- Table 142. Moore Threads Major Business
- Table 143. Moore Threads AI Server Processors Product and Services
- Table 144. Moore Threads AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Moore Threads Recent Developments/Updates
- Table 146. Moore Threads Competitive Strengths & Weaknesses
- Table 147. MetaX Basic Information, Manufacturing Base and Competitors
- Table 148. MetaX Major Business
- Table 149. MetaX AI Server Processors Product and Services
- Table 150. MetaX AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. MetaX Recent Developments/Updates
- Table 152. MetaX Competitive Strengths & Weaknesses
- Table 153. Shanghai Biren Technology Basic Information, Manufacturing Base and Competitors
- Table 154. Shanghai Biren Technology Major Business

- Table 155. Shanghai Biren Technology AI Server Processors Product and Services
- Table 156. Shanghai Biren Technology AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Shanghai Biren Technology Recent Developments/Updates
- Table 158. Shanghai Biren Technology Competitive Strengths & Weaknesses
- Table 159. Enflame Basic Information, Manufacturing Base and Competitors
- Table 160. Enflame Major Business
- Table 161. Enflame AI Server Processors Product and Services
- Table 162. Enflame AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Enflame Recent Developments/Updates
- Table 164. Enflame Competitive Strengths & Weaknesses
- Table 165. Microchip Basic Information, Manufacturing Base and Competitors
- Table 166. Microchip Major Business
- Table 167. Microchip AI Server Processors Product and Services
- Table 168. Microchip AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Microchip Recent Developments/Updates
- Table 170. Microchip Competitive Strengths & Weaknesses
- Table 171. Lattice Basic Information, Manufacturing Base and Competitors
- Table 172. Lattice Major Business
- Table 173. Lattice AI Server Processors Product and Services
- Table 174. Lattice AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Lattice Recent Developments/Updates
- Table 176. Lattice Competitive Strengths & Weaknesses
- Table 177. Achronix Basic Information, Manufacturing Base and Competitors
- Table 178. Achronix Major Business
- Table 179. Achronix AI Server Processors Product and Services
- Table 180. Achronix AI Server Processors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Achronix Recent Developments/Updates
- Table 182. Achronix Competitive Strengths & Weaknesses
- Table 183. Global Key Players of AI Server Processors Upstream (Raw Materials)
- Table 184. Global AI Server Processors Typical Customers
- Table 185. AI Server Processors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. AI Server Processors Picture

Figure 2. World AI Server Processors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World AI Server Processors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World AI Server Processors Production (2021-2032) & (Million Units)

Figure 5. World AI Server Processors Average Price (2021-2032) & (US\$/Unit)

Figure 6. World AI Server Processors Production Value Market Share by Region (2021-2032)

Figure 7. World AI Server Processors Production Market Share by Region (2021-2032)

Figure 8. USA AI Server Processors Production (2021-2032) & (Million Units)

Figure 9. South Korea AI Server Processors Production (2021-2032) & (Million Units)

Figure 10. AI Server Processors Market Drivers

Figure 11. Factors Affecting Demand

Figure 12. World AI Server Processors Consumption (2021-2032) & (Million Units)

Figure 13. World AI Server Processors Consumption Market Share by Region (2021-2032)

Figure 14. United States AI Server Processors Consumption (2021-2032) & (Million Units)

Figure 15. China AI Server Processors Consumption (2021-2032) & (Million Units)

Figure 16. Europe AI Server Processors Consumption (2021-2032) & (Million Units)

Figure 17. Japan AI Server Processors Consumption (2021-2032) & (Million Units)

Figure 18. South Korea AI Server Processors Consumption (2021-2032) & (Million Units)

Figure 19. ASEAN AI Server Processors Consumption (2021-2032) & (Million Units)

Figure 20. India AI Server Processors Consumption (2021-2032) & (Million Units)

Figure 21. Producer Shipments of AI Server Processors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 22. Global Four-firm Concentration Ratios (CR4) for AI Server Processors Markets in 2025

Figure 23. Global Four-firm Concentration Ratios (CR8) for AI Server Processors Markets in 2025

Figure 24. United States VS China: AI Server Processors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 25. United States VS China: AI Server Processors Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: AI Server Processors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States Based Manufacturers AI Server Processors Production Market Share 2025

Figure 28. China Based Manufacturers AI Server Processors Production Market Share 2025

Figure 29. Rest of World Based Manufacturers AI Server Processors Production Market Share 2025

Figure 30. World AI Server Processors Production Value by Function, (USD Million), 2021 & 2025 & 2032

Figure 31. World AI Server Processors Production Value Market Share by Function in 2025

Figure 32. GPU

Figure 33. FPGA

Figure 34. ASIC

Figure 35. GPU

Figure 36. World AI Server Processors Production Market Share by Function (2021-2032)

Figure 37. World AI Server Processors Production Value Market Share by Function (2021-2032)

Figure 38. World AI Server Processors Average Price by Function (2021-2032) & (US\$/Unit)

Figure 39. World AI Server Processors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 40. World AI Server Processors Production Value Market Share by Type in 2025

Figure 41. Training Processors

Figure 42. Inference Processors

Figure 43. World AI Server Processors Production Market Share by Type (2021-2032)

Figure 44. World AI Server Processors Production Value Market Share by Type (2021-2032)

Figure 45. World AI Server Processors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 46. World AI Server Processors Production Value by Deployment, (USD Million), 2021 & 2025 & 2032

Figure 47. World AI Server Processors Production Value Market Share by Deployment in 2025

Figure 48. Cloud Processors

Figure 49. Edge Processors

Figure 50. Terminal Processors

Figure 51. World AI Server Processors Production Market Share by Deployment (2021-2032)

Figure 52. World AI Server Processors Production Value Market Share by Deployment (2021-2032)

Figure 53. World AI Server Processors Average Price by Deployment (2021-2032) & (US\$/Unit)

Figure 54. World AI Server Processors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World AI Server Processors Production Value Market Share by Application in 2025

Figure 56. CPU+GPU Servers

Figure 57. CPU+FPGA Servers

Figure 58. CPU+ASIC Servers

Figure 59. Others

Figure 60. World AI Server Processors Production Market Share by Application (2021-2032)

Figure 61. World AI Server Processors Production Value Market Share by Application (2021-2032)

Figure 62. World AI Server Processors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. AI Server Processors Industry Chain

Figure 64. AI Server Processors Procurement Model

Figure 65. AI Server Processors Sales Model

Figure 66. AI Server Processors Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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