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Global GPU for AI Servers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GPU for AI Servers market size is expected to reach $ 108992 million by 2032, rising at a market growth of 29.5% CAGR during the forecast period (2026-2032).

GPU for AI Servers refers to high-performance parallel computing acceleration chips specially designed for AI training and inference scenarios in data centers. Different from consumer-grade graphics cards and general-purpose computing chips, it features high computing power, high-bandwidth memory, enterprise-level stability and cluster interconnection capabilities, serving as the core computing component of AI servers. It is mainly used in cloud training, large-scale inference, intelligent computing centers, government AI, large model development and other key scenarios. Through dedicated AI computing units, it efficiently processes matrix operations and neural network computations in deep learning, supporting large language models, multi-modal models, autonomous driving models, intelligent recommendation, video analysis and other AI services. Such GPUs support long-term stable operation, high-speed interconnection protocols and error correction mechanisms, meeting the requirements of high-density deployment and large-scale clusters in data centers. They are widely used in Internet, cloud computing, intelligent manufacturing, smart cities, scientific research and public services, acting as one of the core hardware for global AI infrastructure construction.In 2025, global sales of GPUs for AI servers reached approximately 2.063 million units, with an average price of 10,180 US dollars per unit and an industry gross margin of around 54%.

GPU for AI Servers is no longer just a compute component.It has become the core platform layer that defines the competitiveness of AI infrastructure. Future market leadership will depend less on peak chip performance alone and more on system-level coordination across memory bandwidth, advanced packaging, liquid-cooling readiness,

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multi-GPU interconnect, software ecosystem, and rack-scale delivery capability. Demand is also shifting from a training-led market toward a more balanced mix of training and inference, with inference expansion favoring solutions optimized for efficiency, latency, deployment density, and total cost of ownership rather than raw compute alone. At the same time, hyperscaler in-house chips and dedicated accelerators will divert part of incremental demand, but they are unlikely to fully replace general-purpose GPUs in the near term because GPUs still hold strong advantages in ecosystem maturity, compatibility, and developer productivity. Overall, GPU for AI Servers should remain the anchor category of AI infrastructure investment, while the real moat is moving beyond silicon toward supply-chain control, software-stack maturity, and full system integration capability.

This report studies the global GPU for AI Servers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GPU for AI Servers 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 GPU for AI Servers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GPU for AI Servers total production and demand, 2021-2032, (K Units)
Global GPU for AI Servers total production value, 2021-2032, (USD Million)
Global GPU for AI Servers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global GPU for AI Servers consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: GPU for AI Servers domestic production, consumption, key domestic manufacturers and share
Global GPU for AI Servers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global GPU for AI Servers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global GPU for AI Servers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global GPU for AI Servers market based on the following parameters - company overview, production, value, price, gross margin,

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product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, AMD, Intel, MetaX, Denglin Technology, Shanghai Iluvatar CoreX, Hygon, Vastai Technologies, Moore Threads Smart Technology (Beijing) Co., Ltd., Shanghai Biren Technology Co., Ltd., 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 GPU for AI Servers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (K US$/Unit) by manufacturer, by Type, 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 GPU for AI Servers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GPU for AI Servers Market, Segmentation by Type:

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?16GB

16GB ? 80GB

> 80GB

Global GPU for AI Servers Market, Segmentation by Workload:

Training GPU

Inference GPU

General-Purpose AI GPU

Global GPU for AI Servers Market, Segmentation by Application:

Large Model R&D and Training

Cloud AI Inference Services

Industry Intelligent Deployment

Others

Companies Profiled:

NVIDIA

AMD

Intel

MetaX

Denglin Technology

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Shanghai Iluvatar CoreX

Hygon

Vastai Technologies

Moore Threads Smart Technology (Beijing) Co., Ltd.

Shanghai Biren Technology Co., Ltd.

Key Questions Answered:

1. How big is the global GPU for AI Servers market?
2. What is the demand of the global GPU for AI Servers market?
3. What is the year over year growth of the global GPU for AI Servers market?
4. What is the production and production value of the global GPU for AI Servers market?
5. Who are the key producers in the global GPU for AI Servers market?
6. What are the growth factors driving the market demand?

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