

# Global Deep Learning AI Server Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA257BE9623EEN.html>

Date: January 2026

Pages: 139

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

ID: GA257BE9623EEN

## Abstracts

The global Deep Learning AI Server market size is expected to reach \$ 404316 million by 2032, rising at a market growth of 9.9% CAGR during the forecast period (2026-2032).

Deep learning AI servers are accelerated computing servers designed for large model training and high-concurrency inference workloads. They typically use GPUs or ASICs as the core computing power, along with large-capacity, high-bandwidth memory, high-speed internet cards, redundant power supplies, and enhanced heat dissipation, thereby achieving higher throughput and lower latency within a single rack and supporting clustered scheduling. Based on the latest industry forecasts for AI server shipments, global sales of deep learning AI servers are expected to reach approximately 210,000 units in 2025, with an average unit price of approximately US\$95,800. Affected by GPU supply schedules and OEM production schedules, the overall capacity utilization rate is expected to be around 85.6%, and the industry gross margin is typically between 10.5% and 18.5%. Upstream companies mainly come from areas such as AI acceleration chips and boards, CPUs, HBM and DDR memory, SSD storage, Ethernet and high-speed interconnects, motherboards and high-speed connectors, chassis components, server power supplies and power modules, air-cooled and liquid-cooled components, firmware and management software. Downstream companies are concentrated in hyperscale cloud service providers, internet platforms, third-party data center operators, industry AI software and solution providers, research institutes and universities, large enterprises in finance and manufacturing, as well as government and public computing power platforms. In the product cost structure, GPUs or ASICs and their boards account for approximately 55.2%, memory for approximately 11.4%, CPU for approximately 6.1%, networking and interconnects for approximately 6.5%, storage for approximately 3.6%, power supplies for approximately 4.7%, cooling

systems for approximately 6.8%, chassis structures and wiring harnesses for approximately 2.9%, motherboards and other electronic components for approximately 1.8%, and assembly, testing and warranty for approximately 1.0%. Based on parameters, it can be categorized into training-oriented, inference-oriented, and integrated training-inference types; based on acceleration architecture, it can be categorized into GPU-accelerated, ASIC-accelerated, and hybrid-accelerated types; based on node form, it can be categorized into single-machine multi-card type, cluster node type, and rack-level integrated delivery type; based on cooling method, it can be categorized into high-efficiency air-cooled type, cold plate liquid-cooled type, and immersion liquid-cooled type; based on interconnection, it can be categorized into standard Ethernet type, RDMA-enhanced type, and dedicated high-speed interconnection type. On the demand side, the downstream demand list includes large-scale model training expansion, large-scale online inference deployment, retrieval enhancement and multimodal business implementation, enterprise private computing power cluster construction, industry intelligent transformation, and edge inference node upgrades; the downstream customer list includes leading cloud vendors in North America and Asia Pacific, internet platforms and AI-native application companies, telecom operators and data centers, financial institutions and large manufacturing groups, research institutions and government public computing power platforms. In terms of business opportunities, policy-driven factors are reflected in the construction of computing infrastructure and the strengthening of constraints on green data centers, as well as the improvement of data compliance and security requirements. Technological innovation is driven by higher energy-efficient acceleration chips, larger bandwidth memory systems, higher density power supply and liquid cooling penetration, and optimization of inference engines through hardware and software collaboration. Changes in consumer demands are reflected in users' greater sensitivity to response latency, service stability, cost control and privacy security, driving the server industry to shift from single-point computing power accumulation to competition based on platform standardization, observable operation and maintenance and large-scale delivery capabilities.

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

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

Highlights and key features of the study

Global Deep Learning AI Server total production and demand, 2021-2032, (K Units)

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

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

Global Deep Learning AI Server consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

Global Deep Learning AI Server production by Cooling Method, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Deep Learning AI Server 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 Dell, Inspur Systems, HPE, Super Micro, Huawei, Nettrix Information Industry (Beijing), xFusion Digital Technologies, H3C, Dawning Information Industry, IBM, 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 Deep Learning AI Server market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Cooling Method, 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 Deep Learning AI Server Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Deep Learning AI Server Market, Segmentation by Cooling Method:

Liquid Cooling

Air Cooling

#### Global Deep Learning AI Server Market, Segmentation by Premise Type:

Cloud-based

On-premise

## Global Deep Learning AI Server Market, Segmentation by Chip Type:

GPU Server

TPU Server

ASIC Server

## Global Deep Learning AI Server Market, Segmentation by Application:

IT and Communication

Intelligent Manufacturing

Electronic Commerce

Security

Finance

Other

## Companies Profiled:

Dell

Inspur Systems

HPE

Super Micro

Huawei

Netrix Information Industry (Beijing)

xFusion Digital Technologies

H3C

Dawning Information Industry

IBM

Fujitsu

Talkweb

ADLINK Technology

Lenovo

Giga Byte

Powerleader Computer System

Key Questions Answered:

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

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