

Global Data Center AI Inference Server Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center AI Inference Server market size is expected to reach \$ 58974 million by 2032, rising at a market growth of 17.4% CAGR during the forecast period (2026-2032).

In 2025, global Data Center AI Inference Server production reached approximately 664,286 units, with an average global market price of around US\$28,000 per unit.

The gross profit margin of major companies in the industry is between 18% ? 32%.

In 2025, the global production capacity of Data Center AI Inference Server was approximately 885,715 units.

Data Center AI Inference Server is a server platform optimized for deploying trained AI models in real-time or batch inference workloads. It focuses on high-throughput, low-latency computing, efficient model serving, and scalable deployment across cloud and enterprise data centers, supporting recommendation, vision, speech, and large-model inference tasks.

The industrial chain of Data Center AI Inference Server includes upstream CPUs, GPUs, AI accelerators, memory, storage, power supplies, cooling units, and interconnect components. Midstream covers motherboard design, chassis integration, firmware development, assembly, and testing. Downstream applications mainly include cloud services, enterprise AI deployment, content recommendation, search, security analytics, and large-model inference platforms.

This report studies the global Data Center AI Inference Server production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Data Center AI Inference Server total production and demand, 2021-2032, (Units)

Global Data Center AI Inference Server total production value, 2021-2032, (USD Million)

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

Global Data Center AI Inference Server consumption by region & country, CAGR, 2021-2032 & (Units)

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

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

Global Data Center AI Inference Server production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Data Center AI Inference 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 NVIDIA, Intel, Inspur Systems, Dell, HPE, Lenovo, Huawei, IBM, Giga Byte, H3C, 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 Data Center AI Inference Server market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Data Center AI Inference Server Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center AI Inference Server Market, Segmentation by Type:

GPU-based Inference Server

ASIC/NPU-based Inference Server

Hybrid Accelerated Inference Server

Global Data Center AI Inference Server Market, Segmentation by Power & Density:

High-Density Rack Server

High-Power Performance Server

Liquid Cooling Optimized Server

Global Data Center AI Inference Server Market, Segmentation by Inference Throughput:

Low Throughput Server ($?10K$ inferences/sec)

Medium Throughput Server (10K$?100K$ inferences/sec)

High Throughput Server ($?100K$ inferences/sec)

Global Data Center AI Inference Server Market, Segmentation by Application:

Cloud Internet Service

AI Video & Image Analysis

Intelligent Recommendation System

Other

Companies Profiled:

NVIDIA

Intel

Inspur Systems

Dell

HPE

Lenovo

Huawei

IBM

Giga Byte

H3C

Super Micro Computer

Fujitsu

Powerleader Computer System

xFusion Digital Technologies

Dawning Information Industry

Netrix Information Industry (Beijing)

Talkweb

ADLINK Technology

ZTE

Key Questions Answered:

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

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