

Global Data Center AI Inference Server Market Growth 2026-2032

<https://marketpublishers.com/r/G2C0474D3580EN.html>

Date: May 2026

Pages: 130

Price: US\$ 3,660.00 (Single User License)

ID: G2C0474D3580EN

Abstracts

The global Data Center AI Inference Server market size is predicted to grow from US\$ 18195 million in 2025 to US\$ 59245 million in 2032; it is expected to grow at a CAGR of 18.5% from 2026 to 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.

United States market for Data Center AI Inference Server is estimated to increase from

US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Data Center AI Inference Server is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Data Center AI Inference Server is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Data Center AI Inference Server players cover NVIDIA, Intel, Inspur Systems, Dell, HPE, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Data Center AI Inference Server Industry Forecast" looks at past sales and reviews total world Data Center AI Inference Server sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center AI Inference Server sales for 2026 through 2032. With Data Center AI Inference Server sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Data Center AI Inference Server industry.

This Insight Report provides a comprehensive analysis of the global Data Center AI Inference Server landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Data Center AI Inference Server portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Data Center AI Inference Server market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center AI Inference Server and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Data Center AI Inference Server.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center AI Inference Server market by product type, application,

key manufacturers and key regions and countries.

Segmentation by Type:

GPU-based Inference Server

ASIC/NPU-based Inference Server

Hybrid Accelerated Inference Server

Segmentation by Power & Density:

High-Density Rack Server

High-Power Performance Server

Liquid Cooling Optimized Server

Segmentation by Inference Throughput:

Low Throughput Server (?10K inferences/sec)

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

High Throughput Server (?100K inferences/sec)

Segmentation by Application:

Cloud Internet Service

AI Video & Image Analysis

Intelligent Recommendation System

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Data Center AI Inference Server market?

What factors are driving Data Center AI Inference Server market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Center AI Inference Server market opportunities vary by end market size?

How does Data Center AI Inference Server break out by Type, by Application?

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