

Global Data Center AI Inference Server Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Data Center AI Inference Server market size was valued at US\$ 19138 million in 2025 and is forecast to a readjusted size of US\$ 58974 million by 2032 with a CAGR of 17.4% during review period.

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 is a detailed and comprehensive analysis for global Data Center AI Inference Server market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Data Center AI Inference Server market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Data Center AI Inference Server market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Data Center AI Inference Server market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Data Center AI Inference Server market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Data Center AI Inference Server
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Data Center AI Inference Server market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Data Center AI Inference Server market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

GPU-based Inference Server

ASIC/NPU-based Inference Server

Hybrid Accelerated Inference Server

Market segment by Power & Density

High-Density Rack Server

High-Power Performance Server

Liquid Cooling Optimized Server

Market segment by Inference Throughput

Low Throughput Server (?10K inferences/sec)

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

High Throughput Server (?100K inferences/sec)

Market segment by Application

Cloud Internet Service

AI Video & Image Analysis

Intelligent Recommendation System

Other

Major players covered

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

Nettrix Information Industry (Beijing)

Talkweb

ADLINK Technology

ZTE

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Data Center AI Inference Server product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center AI Inference Server, with price, sales quantity, revenue, and global market share of Data Center AI Inference Server from 2021 to 2026.

Chapter 3, the Data Center AI Inference Server competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Center AI Inference Server breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Data Center AI Inference Server market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Data Center AI Inference Server.

Chapter 14 and 15, to describe Data Center AI Inference Server sales channel, distributors, customers, research findings and conclusion.

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