

GPU Server Market by Deployment (On-premises, Cloud-based), Form Factor (Rack-mounted Server, Blade Server, Tower Server), Function (Training, Inference), Cooling Technology, Application, End-user Industry and Region - Global Forecast to 2030

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Abstracts

The global GPU server market is projected to grow from USD 171.47 billion in 2025 to USD 730.56 billion by 2030, at a CAGR of 33.6% from 2025 to 2030. The growth in the market is attributed to the rising adoption of cloud-based AI solutions across industries, increasing adoption of machine learning and deep learning algorithms, and the growing potential of AI in the healthcare sector. Increased investment in cloud service providers' data centers is bolstering the GDP growth. Therefore, as virtual environments become rampant, data centers with GPU servers will stand to bear heavier computation loads and provide smooth and responsive virtual experiences. With the rise of the Metaverse and VR apps, opportunities are posed for the GPU server market.

“By form factor, the rack-mounted server segment is expected to account for the largest market share in 2030.”

The high-growth rack-mount servers are witnessing extensive adoption across large data centers, and their functional utility is in running complex AI-based workloads. In the form-factor-based distinction within the spectrum of GPU servers, rack-mounted servers are certainly the most dominant ones, converting GPU servers into a high-density computing unit with properties of scalability and efficient utilization of space. This fits exactly to AI training, data analytics, and HPC workloads, turning into a single chassis with more than one GPU and competition across racks. Some adoption drivers are the ramp-up demand for large-scale AI models, necessitating space-efficient infrastructure established in hyperscale and enterprise data centers, and better thermal and power

management. The adoption preference for rack-mount GPU servers remains strong in the growing dimension and scale of AI and cloud computing capacities.

“By end user industry, the cloud service providers segment is expected to capture the largest share of the GPU server market during the forecast period.”

Cloud service providers provide immense benefits in processing complex data sets produced by IoT devices, social media websites, and enterprise applications. The widespread deployment of AI technologies in different verticals is fueling the need for AI-based cloud services provided by cloud service providers (CSPs). GPU servers enable these providers to analyze and process immense volumes of data at unprecedented velocities. Cloud service providers (CSPs) are the key drivers of growth in the GPU server market as they offer businesses, developers, and research institutions elastic, on-demand use of GPU capabilities. Top CSPs such as AWS, Microsoft Azure, and Google Cloud are significantly investing in GPU-enabled infrastructure to host various compute-intensive applications such as AI/ML training, deep learning, data analytics, and high-end rendering. The primary driving forces are the increasing need for efficient, agile, and scalable compute power, rapid adoption of AI and generative models, and the business need to bring products to market faster without investing in physical assets.

“By country, the US is expected to hold the largest share of the GPU server market in North America in 2030.”

The US is expected to hold the largest share of the GPU server market in North America in 2030. This is due to advancements in artificial intelligence technologies, increased recognition of its benefits, a supportive ecosystem, government initiatives, and industry-specific use cases in the region. The US is experiencing an increase in the adoption of AI technologies driven by advancements in artificial intelligence technologies, increased recognition of its benefits, a supportive ecosystem, government initiatives, and industry-specific use cases. Continuous improvements in AI algorithms and processing capabilities are enabling more businesses to integrate AI solutions. The rise of machine learning and deep learning applications has generated significant demand for powerful GPU servers capable of handling intensive computational tasks. Key players in the GPU server market, including Dell Inc. (US) and Hewlett Packard Enterprise Development LP (US), are headquartered in the US, further fueling the market growth.

Extensive primary interviews were conducted with key industry experts in the GPU server market space to determine and verify the market size for various segments and

subsegments gathered through secondary research. The breakup of primary participants for the report is shown below: The study contains insights from various industry experts, from component suppliers to Tier 1

Companies and OEMs. The breakup of the primaries is as follows:

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: C-level Executives – 45%, Directors – 35%, and Others – 20%

By Region: North America – 30%, Europe – 22%, Asia Pacific – 40%, and RoW – 8%

Note: Three tiers of companies are defined based on their total revenue as of 2024; tier 1: revenue more than or equal to USD 500 million, tier 2: revenue between USD 100 million and USD 500 million, and tier 3: revenue less than or equal to USD 100 million. Other designations include sales and marketing executives and researchers, as well as members of various GPU server organizations.

NVIDIA Corporation (US), Dell Inc. (US), Hewlett Packard Enterprise Development LP (US), Lenovo (Hong Kong), Huawei Technologies Co., Ltd. (China), IBM (US), H3C Technologies Co., Ltd. (China), Cisco Systems, Inc. (US), Fujitsu (Japan), and INSPUR Co., Ltd. (China), among others are some key players in the GPU server market.

The study includes an in-depth competitive analysis of these key players in the GPU server market, as well as their company profiles, recent developments, and key market strategies.

Research Coverage:

This research report categorizes the GPU server market based on cooling technology (air cooling, liquid cooling, hybrid cooling), form factor (rack-mounted servers, blade servers, tower servers), function (training, inference), deployment (on-premises, cloud-based), application (generative ai, machine learning, natural language processing, computer vision), end-user industry (cloud service providers (CSP), enterprises, government organizations), and region (North America, Europe, Asia Pacific and RoW). The report describes the major drivers, restraints, challenges, and opportunities pertaining to the GPU server market and forecasts the same till 2030. The report also

consists of leadership mapping and analysis of all the companies included in the GPU server ecosystem.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants in this market by providing information on the closest approximations of the revenue numbers for the overall GPU server market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (increase in data traffic and need for high computing power, increasing adoption of machine learning and deep learning algorithms, rising adoption of cloud-based AI solutions across industries) restraints (shortage of AI hardware experts and skilled workforce, power consumption and cooling challenges for high-density GPU servers), opportunities (growing potential of AI in healthcare sector, increasing investments in data centers by cloud service providers, emergence of Metaverse and Virtual Reality (VR)) and challenges (data security and privacy concerns) influencing the growth of the GPU server market

Product Development/Innovation: Detailed insights into upcoming technologies, research and development activities, and the latest product and service launches in the GPU server market

Market Development: Comprehensive information about lucrative markets – the report analyzes the GPU server market across varied regions.

Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the GPU server market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, such as NVIDIA Corporation (US), Dell Inc. (US), Hewlett Packard Enterprise Development LP (US), Lenovo

(Hong Kong), Huawei Technologies Co., Ltd. (China), IBM (US), H3C Technologies Co., Ltd. (China), Cisco Systems, Inc. (US), Fujitsu (Japan), and INSPUR Co., Ltd. (China) NVIDIA Corporation (US), Dell Inc. (US), Hewlett Packard Enterprise Development LP (US), Lenovo (Hong Kong), Huawei Technologies Co., Ltd. (China), IBM (US), H3C Technologies Co., Ltd. (China), Cisco Systems, Inc. (US), Fujitsu (Japan), and INSPUR Co., Ltd. (China) in the GPU server market

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