

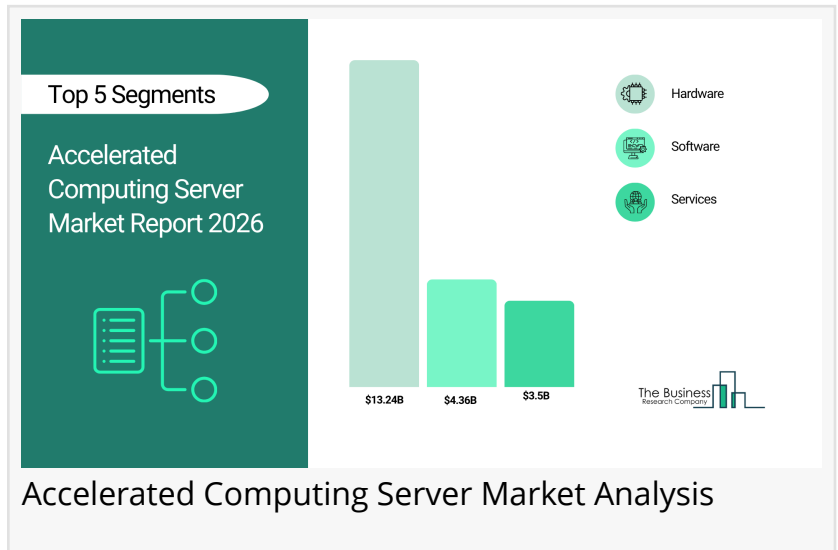
Accelerated Computing Server Market to Reach \$39 Billion by 2030 with 16.5% CAGR

The Business Research Company's Accelerated Computing Server Global Market Report 2026 - Market Size, Trends, And Global Forecast 2026-2035

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/EINPresswire.com/ -- [Accelerated Computing Server market](#) to surpass \$39 billion in 2030. In comparison, the Data Center Accelerator market, which is considered as its parent market, is expected to be approximately \$93

billion by 2030, with Accelerated Computing Server to represent around 42% of the parent market. Within the broader Information Technology industry, which is expected to be \$13,807 billion by 2030, the Accelerated Computing Server market is estimated to account for nearly 0.3% of the total market value.



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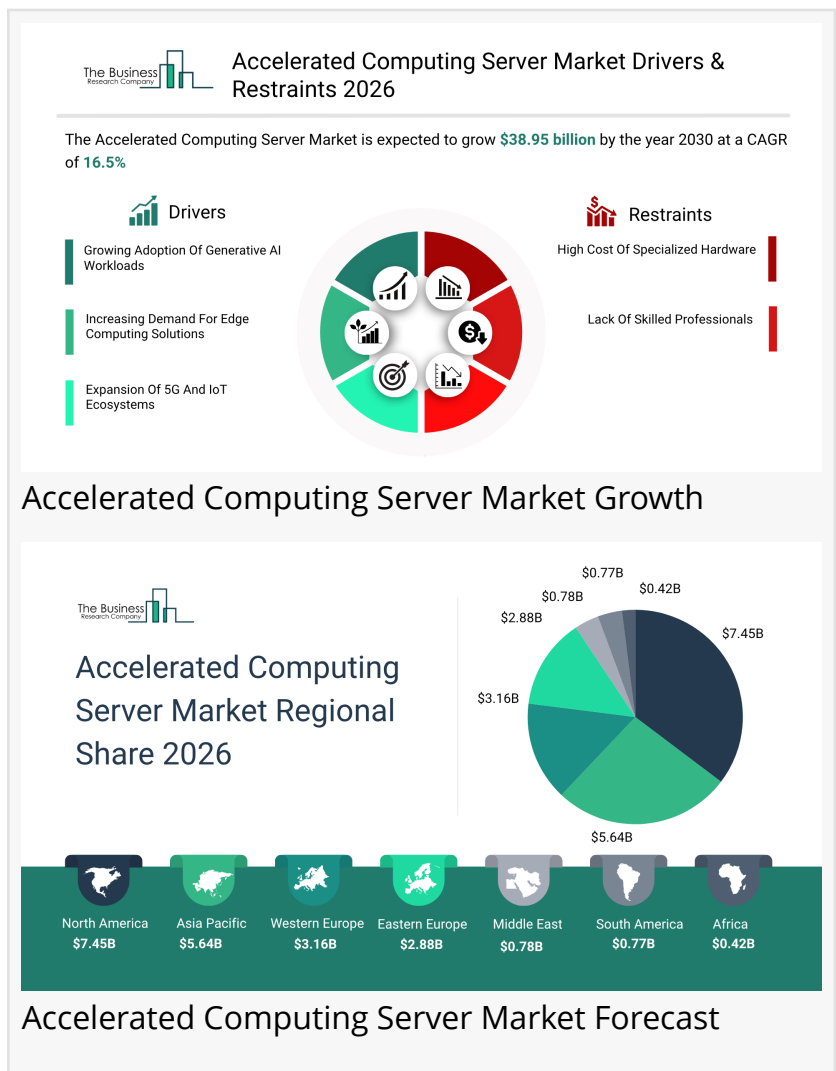
Which Will Be The Biggest Region In The Accelerated Computing Server Market In 2030
North America will be [the largest region in the accelerated computing server market in 2030](#), valued at \$12 billion. The market is expected to grow from \$7 billion in 2025 at a compound annual growth rate (CAGR) of 13%. The rapid growth can be attributed to increasing deployment of edge AI infrastructure across industries, strong government and defense investments in high-performance computing

systems, rising adoption of accelerated computing in scientific research and simulation workloads, growing demand for energy-efficient data center architectures, and expansion of AI-driven enterprise applications across sectors such as healthcare, finance, and automotive within the region.

Which Will Be The Largest Country In The Global Accelerated Computing Server Market In 2030?
The USA will be the largest country in the accelerated computing server market in 2030, valued

at \$10 billion. The market is expected to grow from \$6 billion in 2025 at a compound annual growth rate (CAGR) of 13%. The rapid growth can be attributed to increasing development of custom AI chips and domain-specific accelerators, rising adoption of accelerated computing in autonomous systems and robotics, strong growth in AI-driven content creation and media processing workloads, expanding use of accelerated servers in cybersecurity and real-time threat detection, and increasing investments in advanced cooling technologies and data center optimization solutions.

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What Will Be Largest Segment In The Accelerated Computing Server Market In 2030?

The accelerated computing server market is segmented by component into hardware, software, and services. The hardware segment will be the largest segment of the accelerated computing server market segmented by component, accounting for 63% or \$24 billion of the total in 2030. The hardware segment will be supported by increasing demand for high-performance GPUs, TPUs, and specialized accelerators, rising adoption of AI, machine learning, and deep learning workloads across industries, growing investments in data center infrastructure and hyperscale computing environments, expanding deployment of high-performance computing (HPC) systems for scientific and enterprise applications, increasing need for low-latency and high-throughput processing capabilities, and continuous advancements in semiconductor technologies and chip architectures.

The accelerated computing server market is segmented by deployment mode into on-premises and cloud-based solutions.

The accelerated computing server market is segmented by enterprise size into small and medium enterprises, and large enterprises.

The accelerated computing server market is segmented by application into artificial intelligence, high-performance computing, data analytics, and other applications.

What Is The Expected CAGR For The Accelerated Computing Server Market Leading Up To 2030?

The expected CAGR for the accelerated computing server market leading up to 2030 is 16%.

What Will Be The Growth Driving Factors In The Global Accelerated Computing Server Market In The Forecast Period?

[The rapid growth of the global accelerated computing server market](#) leading up to 2030 will be driven by the following key factors that are expected to reshape artificial intelligence infrastructure, high-performance computing architectures, data center scalability frameworks, and enterprise digital transformation strategies across the global technology ecosystem.

Growing Adoption Of Generative AI Workloads - The growing adoption of generative AI workloads is expected to become a key growth driver for the accelerated computing server market by 2030. Enterprises and cloud service providers are increasingly deploying GPU-accelerated servers to support large language models, image and video generation, and advanced AI inference applications. These workloads require massive parallel processing capabilities, high-bandwidth memory, and optimized interconnect technologies to ensure efficient model training and deployment. As generative AI applications expand across industries such as healthcare, finance, media, and automotive, demand for high-performance accelerated computing infrastructure continues to rise. As a result, the growing adoption of generative AI workloads is anticipated to contribute approximately 2.7% annual growth to the market.

Increasing Demand For Edge Computing Solutions - The increasing demand for edge computing solutions is expected to emerge as a major factor driving the expansion of the accelerated computing server market by 2030. Organizations are deploying compact, GPU-enabled servers closer to data sources to enable real-time processing, reduce latency, and improve operational efficiency in applications such as autonomous systems, industrial automation, and smart cities. Edge-based accelerated computing allows faster decision-making without reliance on centralized cloud infrastructure, supporting mission-critical and latency-sensitive workloads. Additionally, the proliferation of connected devices and distributed computing environments is accelerating the adoption of edge-optimized server architectures. Consequently, the increasing demand for edge computing solutions is projected to contribute around 2.5% annual growth to the market.

Expansion Of 5G And IoT Ecosystems - The expansion of 5G and IoT ecosystems is expected to act as a key growth catalyst for the accelerated computing server market by 2030. The rapid rollout of 5G networks and the growing number of connected IoT devices are generating vast volumes of real-time data that require high-speed processing and analytics. Accelerated computing servers play a critical role in handling this data through AI-driven analytics, network optimization, and real-time application processing. Telecom operators and enterprises are increasingly investing in GPU-accelerated infrastructure to support network slicing, predictive

maintenance, and intelligent automation use cases. Therefore, the expansion of 5G and IoT ecosystems is projected to contribute approximately 2.2% annual growth to the market.

Access The Detailed Accelerated Computing Server Market Report Here

https://www.thebusinessresearchcompany.com/report/accelerated-computing-server-global-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Mar_PR

What Are The Key Growth Opportunities In The Accelerated Computing Server Market In 2030? The most significant growth opportunities are anticipated in the hardware market, software market, and services market. Collectively, these segments are projected to contribute over \$21 billion in market value by 2030, driven by the increasing adoption of AI and high-performance computing workloads, rising demand for GPU- and accelerator-based server architectures, growing investments in hyperscale and enterprise data center infrastructure, expanding deployment of cloud-based accelerated computing platforms, and increasing need for efficient processing of large-scale data and complex computational tasks. This momentum reflects the technology industry's focus on enhancing computational performance, enabling advanced analytics, and supporting next-generation digital applications, accelerating growth across the global accelerated computing server ecosystem.

The hardware market is projected to grow by \$13 billion, the software market is expected to grow by \$5 billion, and the services market is expected to grow by \$3 billion over the next five years from 2025 to 2030.

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