

Data Center CPU Market Expected to Witness Rapid Expansion Through 2033 | Intel Corporation, Advanced Micro Devices

CMI estimates that the global Data Center CPU Market stood at USD 14 Bn in 2025 and will expand USD 26 Bn by 2033, registering CAGR of 7% between 2026 and 2033

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[The Data Center CPU Market](#) : A thorough analysis of statistics about the current as well as emerging trends offers clarity regarding the Data Center CPU dynamics. The report includes Porter's Five Forces to analyze the prominence of various features such as the understanding of both the suppliers and customers, risks posed by various agents, the strength of competition, and promising emerging businesspersons to understand a valuable resource. Also, the report spans the Data Center CPU Market research data of various companies, benefits, gross margin, strategic decisions of the worldwide, and more through tables, charts, and infographics.

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The Data Center CPU report highlights an all-inclusive assessment of the revenue generated by the various segments across different regions for the forecast period, 2026 to 2033. To leverage business owners, and gain a thorough understanding of the current momentum, the Data Center CPU Market research taps hard-to-find data on aspects including but not limited to demand and supply, distribution channel, and technology upgrades. Principally, the determination of strict government policies and regulations and government initiatives building



the growth of the Data Center CPU offers knowledge of what is in store for business owners in the upcoming years.

Global Data Center CPU Market Key Takeaways

According to Coherent Market Insights (CMI), the global data center CPU market size is projected to grow from US\$ 14 Bn in 2026 to US\$ 26 Bn by 2033, registering a compound annual growth rate (CAGR) of 7.0% during the forecast period.

Based on processor architecture, x86 segment accounted for 54% of the data center CPU market share in 2025 on account of its widespread adoption and strong compatibility with existing enterprise workloads.

Tower servers segment dominates the market with a share of 38% in 2025 because of their cost-effectiveness, ease of deployment, and suitability for SMEs.

By application, cloud computing segment held 33% share in 2025, thanks to rising cloud adoption and growing demand for scalable data storage and processing.

North America leads the data center CPU industry with a share of 29% in 2025, mostly due to strong presence of hyperscale cloud providers and advanced data center infrastructure.

Asia Pacific, holding 24% share in 2025, is poised to emerge as the most lucrative market for data center CPU manufacturers during the forecast period due to rapid digitalization and rising investments in data center infrastructure.

Rapid Expansion of Cloud Computing Fueling Data Center CPU Market Growth

Coherent Market Insights' latest data center CPU market analysis outlines major factors spurring industry growth. These include rising adoption of cloud computing, increasing AI, machine learning, and big data workloads, digital transformation, growing demand for high-performance computing, and advancements in CPU architecture and technologies.

Rising shift towards cloud-based services is providing a strong impetus for the growth of data center CPU market. Enterprises in the contemporary world are migrating workloads to public, private, and hybrid clouds, thereby increasing demand for high-performance CPUs in hyperscale data centers.

For example, hyperscale cloud companies (Amazon, Microsoft, Google, Meta) are expected to spend around \$645 billion on AI and data center infrastructure in 2026. Amazon alone is planning up to \$200 billion in capital expenditure, largely for AI infrastructure. Similarly, growth of SaaS, IaaS, and PaaS platforms, along with the rising number of hyperscale data centers, is expected to fuel data center CPU demand in the coming years.

□ Data Center CPU Market Key Players

- Intel Corporation
- Advanced Micro Devices
- NVIDIA Corporation

- Amazon Web Services
- Google LLC
- Broadcom Inc
- Arm Holdings Plc
- Qualcomm Incorporated
- IBM Corporation
- Microsoft Corporation
- Tencent Holdings Limited
- Samsung Electronics Co. Ltd
- SK Hynix Inc
- Micron Technology Inc
- Monolithic Power Systems Inc

□ Data Center CPU Market Segments

- By Processor Architecture: x86, ARM, RISC-V, Power, and Others
- By Server Form Factor: Tower Servers, Rackmount Servers, Blade Servers, and Microservers
- By Application: Cloud Computing, Artificial Intelligence, High-Performance Computing, Big Data Analytics, Web Hosting, and Others

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Supply Chain Constraints and High Costs Hampering Market Growth

The global data center CPU market outlook appears promising due to increasing digital transformation initiatives and rising adoption of cloud-based technologies. However, high costs and supply chain challenges are expected to restrain data center CPU market growth during the forecast period.

Advanced CPUs use very small and advanced fabrication nodes (for example, sub-10nm), but the manufacturing capacity for these is limited. Rising demand from AI-based workloads has made the shortage even worse, causing price changes and difficulties in buying CPUs. Because of this, data center expansion slows down and CPU availability becomes limited.

Growth of Data Generation and Digital Transformation Opening Revenue Streams

There is a rapid increase in data generation across industries, which creates need for advanced data center infrastructure. This, in turn, is expected to boost demand for data center CPUs during the forthcoming period. Rising use of IoT devices, social media, streaming platforms, and big data applications is generating large volumes of data that require efficient processing. At the same time, ongoing digital transformation and increasing adoption of cloud computing and AI technologies are creating new growth opportunities for the data center CPU market.

Emerging Data Center CPU Market Trends

Increasing adoption of artificial intelligence (AI), machine learning, and big data is driving demand for data center CPUs. These workloads significantly increase computational requirements. CPUs are evolving with higher core counts and improved support for AI-optimized processing. This includes training and inference of AI models, generative AI and large language models (LLMs), and real-time data processing and analytics.

Rising demand for high-performance computing (HPC) is expected to boost data center CPU market growth during the forthcoming period. Industries like healthcare, finance, research, and automotive require advanced computing power, increasing demand for high-performance CPUs. These processors support applications including scientific simulations, financial risk analysis, and genomics and drug discovery.

Expansion of hyperscale and edge data centers is increasing the sales of data center CPUs. These facilities need efficient and high-performance processors to support low-latency applications like 5G, IoT, and autonomous systems.

Continuous advancements in CPU architecture and technologies are supporting market growth. Modern CPUs are being designed with higher core counts as well as built-in AI accelerators and improved energy efficiency. New technologies like Compute Express Link (CXL) are enabling faster data transfer and scalable memory performance in data centers.

Regional Outlook:

The following section of the report offers valuable insights into different regions and the key players operating within each of them. To assess the growth of a specific region or country, economic, social, environmental, technological, and political factors have been carefully considered. The section also provides readers with revenue and sales data for each region and country, gathered through comprehensive research. This information is intended to assist readers in determining the potential value of an investment in a particular region.

- » North America (U.S., Canada, Mexico)
- » Europe (Germany, U.K., France, Italy, Russia, Spain, Rest of Europe)
- » Asia-Pacific (China, India, Japan, Singapore, Australia, New Zealand, Rest of APAC)
- » South America (Brazil, Argentina, Rest of SA)
- » Middle East & Africa (Turkey, Saudi Arabia, Iran, UAE, Africa, Rest of MEA)

The Report covers:

- Analyze players — examine company profiles, products, capacity, sales, revenue, pricing, gross margins, and vendor challenges.
- Assess global and regional outlook — evaluate current conditions and growth forecasts by region, country, type, and application.
- Highlight key trends — focus on rising competition and ongoing innovation.

- Identify drivers and opportunities — emphasize growing demand and emerging technologies.
- Apply Porter's Five Forces — evaluate competitive pressure from new entrants, supplier/buyer power, substitutes, and industry rivalry.

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- Unbiased conclusions and insights
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- Highly efficient and experienced team of analysts striving to create top-quality reports
- Our reports have facilitated the growth of over 500 companies
- The systematic and methodical research process

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Key Questions Addressed in the Data Center CPU Market Report:

- What is the forecasted size, share, & CAGR of the in the forecast period?
- What are the key trends projected to affect the during 2026-2033?
- What is the estimated demand for different types of products/services in the?
- What would be the impact of strategic developments on the in the mid to long term?
- Who are the key stakeholders and players participating in the?
- What are the different segments & sub-segments considered in the research study?

Author of thising PR:

Alice Mutum is a seasoned senior PR writer, leveraging extensive expertise gained from her previous role as a content writer. With seven years in content development, Alice masterfully employs SEO best practices and cutting-edge digitaling strategies to craft high-ranking, impactful content. As an writer, she meticulously ensures flawless grammar and punctuation, precise data accuracy, and perfect alignment with audience needs in every research report. Alice's dedication to excellence and her strategic approach to content make her an invaluable asset in the world of insights

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