

Data Center Chip Market Report by Chip Type (GPU, ASIC, FPGA, CPU, and Others), Data Center Size (Small and Medium Size, Large Size), Industry Vertical (BFSI, Manufacturing, Government, IT and Telecom, Retail, Transportation, Energy and Utilities, and Others), and Region 2024-2032

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Abstracts

The global data center chip market size reached US\$ 10.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 17.8 Billion by 2032, exhibiting a growth rate (CAGR) of 5.5% during 2024-2032. The market is primarily driven by the expanding information technology (IT) industry, the continuous technological advancements, the extensive research and development (R&D) efforts by the leading players, and the introduction of the five-nanometer process for semiconductor manufacturing.

Data Center Chip Market Analysis:

Major Market Drivers: The extensive utilization of cloud computing services by businesses and consumers is among the primary factors driving the data center chip market outlook. Moreover, the escalating demand for powerful and energy-efficient chips to support virtualization, storage, networking, and other critical workloads is also catalyzing the market growth.

Key Market Trends: The integration of specialized hardware accelerators, such as GPUs (Graphics Processing Units), TPUs (Tensor Processing Units), and FPGAs (Field-Programmable Gate Arrays) to optimize the performance of AI workloads is propelling the data center chip market trends. Additionally, the growing popularity of advanced semiconductor process nodes, such as 7nm and 5nm, to enable higher transistor density, improved performance, and lower power consumption is also catalyzing the

global market.

Competitive Landscape: Some of the major market players in the data center chip industry include Achronix Semiconductor Corporation, Advanced Micro Devices Inc., Arm Limited, Broadcom Inc., Fujitsu Limited, GlobalFoundries Inc., Huawei Technologies Co. Ltd., Intel Corporation, Marvell Technology Inc., Nvidia Corporation, Taiwan Semiconductor Manufacturing Company Limited, among many others.

Geographical Trends: North America accounted for the largest share in the data center chip market analysis, owing to the development of advanced telecommunications infrastructure and reliable power supply. Besides this, the increasing number of leading companies, the inflating investments in cloud computing, and the extensive utilization of data-intensive applications are stimulating the data center chip market statistics in the region.

Challenges and Opportunities: The extensive processing of complex workloads, including AI/ML, high-performance computing, and big data analytics, while minimizing power consumption and latency poses challenges for the market. However, the development of customized chip solutions, including application-specific integrated circuits (ASICs) and domain-specific architectures (DSAs) for specific uses presents significant growth opportunities for the data center chip market share.

Data Center Chip Market Trends:

The Increasing Demand for Cloud Services and Big Data Analytics

The expanding infrastructure of cloud service providers, such as Microsoft Azure, Amazon Web Services (AWS), and Google Cloud is propelling the market growth. Besides this, the escalating demand for data centers to store, manage, and process large amounts of information is further stimulating the data center chip market growth. For instance, Amazon Web Services Inc. has launched a supply chain management application that would eliminate the requirement for businesses to utilize multiple systems and vendors to access critical network data. AWS Supply Chain is a machine learning-powered application that automatically combines and analyzes data across numerous supply chain systems, creating a “unified data lake.” Moreover, in May 2023, IBM unveiled IBM Hybrid Cloud Mesh, a SaaS offering that was developed to facilitate enterprises to obtain management to their hybrid multi-cloud infrastructure.

Expanding IoT and Edge Computing

The growing popularity of edge data centers to process and analyze the data generated from IoT devices, such as smart wearables, sensors, and connected appliances in real-time is positively influencing the data center chip market demand. Moreover, the

extensive utilization of these components to enhance data security, reduce latency, and enable faster decision-making is acting as another significant growth-inducing factor. For instance, according to the data from GSMA Intelligence, the 5G market penetration worldwide is expected to increase from 3% in 2020 to 64% in 2030. Additionally, as part of the Digital India initiative, the Government of India has planned to give IoT a push in the country. The government has allocated INR 7,000-crore funds to develop 100 smart cities in the country powered by IoT devices. The government intends to control traffic, efficiently use water and power, and collect data using IoT sensors for healthcare and other services.

Growth of AI and Machine Learning Applications

The escalating demand for advanced data center chips in AI and ML algorithms to process and analyze vast amounts of datasets is positively influencing the market growth. Besides this, the incorporation of AI and ML across various industries, such as healthcare, retail, finance, and autonomous vehicles to improve efficiency and make data-driven decisions is also bolstering the market growth. For instance, in April 2023, Oracle Corporation and GitLab Inc. announced the availability of a new offering that expands ML and AI functionalities. Customers can run AI and ML workloads with GPU-enabled GitLab runners on Oracle Cloud Infrastructure (OCI) and get access to deploy cloud services wherever needed, including on-premises and multi-cloud environments. Moreover, Inflection AI secured one of the largest artificial machine learning funding rounds, totaling US\$ 225 Million. It is referred to as a machine learning and AI startup. It is expected to improve machine learning, allowing for intuitive human-computer interfaces in the near future.

Data Center Chip Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on chip type, data center size, and industry vertical.

Breakup by Chip Type:

- GPU
- ASIC
- FPGA
- CPU
- Others

The report has provided a detailed breakup and analysis of the market based on the chip type. This includes GPU, ASIC, FPGA, CPU, and others. According to the report, GPU represented the largest segment. These processors are widely used in data centers for artificial intelligence, data analytics, machine learning, and scientific simulations. Moreover, GPUs handle matrix operations and calculations required by neural networks effectively. For instance, Acer has launched new NVIDIA Tesla GPU-powered servers in India. The server can host up to eight NVIDIA Tesla V100 32GB SXM2 GPU accelerators. GPU pair includes one Peripheral Component Interconnect (PCIe) slot for high-speed interconnect. Additionally, in Japan, KDDI, one of the prominent telecom companies, has partnered with NVIDIA to offer GeForce Now game-streaming service to customers. It would place NVIDIA's RTX gaming servers in a new data center in Tokyo.

Breakup by Data Center Size:

Small and Medium Size

Large Size

The report has provided a detailed breakup and analysis of the market based on the data center size. This includes small and medium size and large size. According to the report, the large size accounted for the largest market segment. Large data centers are extensively utilized for managing huge amounts of data, infrastructure requirements, and computing power. For instance, Power Grid Corporation India Ltd and Tele India Datacenter, also known as 'Datasamudra,' India's first On-demand and On-requirement datacenter based in Bangalore, offering globally aligned colocation, hosting & cloud services, signed a Memorandum of Understanding to combine their resources to improve user experience. Moreover, in the upcoming years, a wide variety of new data center operators will transform the Indian data center landscape by offering innovative concepts and scalability across cities. Additionally, Karnataka is projected to become a premier data center destination in India and take the lead as one of the leading digital economies in the nation, supported by its most recent dedicated data center (DC) strategy.

Breakup by Industry Vertical:

BFSI

Manufacturing

Government

IT and Telecom

Retail
Transportation
Energy and Utilities
Others

The report has provided a detailed breakup and analysis of the market based on the industry vertical. This includes BFSI, manufacturing, government, IT and telecom, retail, transportation, energy and utilities, and others. According to the report, BFSI accounted for the largest market share. The extensive utilization of data centers in the BFSI industry to analyze and process financial transactions, customer data, and sensitive information securely. For instance, McAfee, a global leader in online security, announced a partnership with Mastercard to provide online security software to cardholders. The collaboration will allow Mastercard Cardholders to purchase McAfee internet security software. Moreover, BPER Banca Group, one of Italy's largest banking groups, announced a four-year partnership with IBM Corporation to assist in accelerating the bank's development into a completely digital corporation. The four-year agreement will expand the bank's hybrid cloud strategy to modernize its technology infrastructure and applications by combining the security, scalability, and reliability of IBM Cloud for Financial Services with the resiliency of IBM z16 and Red Hat OpenShift, a leading Kubernetes platform, to help meet the compliance requirements of the heavily regulated industry.

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom

Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share, owing to the increasing urbanization and industrialization activities and the development of efficient and reliable telecommunications infrastructure. Besides this, the strict adherence of consumers and businesses to data privacy and security standards is also propelling the data center chip market growth in this region. For instance, with the introduction of faster network alternatives, such as 5G and extensive fiber connectivity supporting technologies like FWA, data consumption through smartphones increased from 1.8 GB to about 8.5 GB. This consumption is expected to further increase to more than 64 GB by 2029. Moreover, NetIX, the Bulgarian global platform, partnered with data center company eStruxture to provide global connectivity solutions in Canada. According to eStruxture, the collaboration would enable customers to access all of NetIX's global locations, Internet Exchange Points (IXPs), and NetIX's Global Internet Exchange (GIX) peering solutions directly from any one of eStruxture's data centers through the Tunnelling over Internet (ToI) service.

Competitive Landscape:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the major market players in the Data Center Chip industry include Achronix Semiconductor Corporation, Advanced Micro Devices Inc., Arm Limited, Broadcom Inc., Fujitsu Limited, GlobalFoundries Inc., Huawei Technologies Co. Ltd., Intel Corporation, Marvell Technology Inc., Nvidia Corporation,

Taiwan Semiconductor Manufacturing Company Limited, among many others.

Data Center Chip Market News:

January 2023: Huawei Technologies Co. Ltd. launched Industry-First 50G POL Prototype for Next-Generation Wi-Fi 7 Campus Networks. It upgrades campus networks from 10G PON to 50G PON and allows campus customers to enjoy an ultra-broadband network experience. Also, customers can build networks on demand and smoothly upgrade networks to 50G PON in the future, protecting initial network construction investments.

March 2023: Marvell Technology Inc. launched the Marvell Nova 1.6 Tbps PAM4 electro-optics platform. It enables the highest speed of data movement in cloud artificial intelligence (AI) / machine learning (ML) and data center networks.

March 2024: ORCA Computing, Pixel Photonics, Sparrow Quantum, and the Niels Bohr Institute (NBI) announce their collaboration on the Eurostars project 'SupremeQ.' This landmark initiative brings together quantum experts from the United Kingdom, Germany, and Denmark with a shared goal of accelerating the development and commercialization of photonic quantum computing technologies to deliver quantum advantage.

Key Questions Answered in This Report

1. How big is the global data center chip market?
2. What is the expected growth rate of the global data center chip market during 2024-2032?
3. What are the key factors driving the global data center chip market?
4. What has been the impact of COVID-19 on the global data center chip market?
5. What is the breakup of the global data center chip market based on the chip type?
6. What is the breakup of the global data center chip market based on the data center size?
7. What is the breakup of the global data center chip market based on the industry vertical?
8. What are the key regions in the global data center chip market?
9. Who are the key players/companies in the global data center chip market?

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