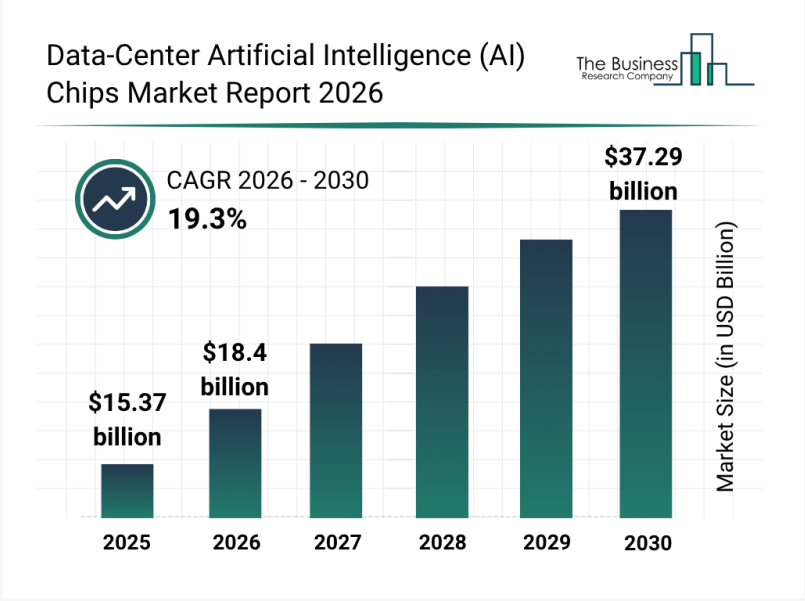
Outlook for the Data-Center Artificial Intelligence (AI) Chips Market to 2030: Size, CAGR, Trends, and Forecast Analysis

The Business Research Company's Data-Center Artificial Intelligence (AI) Chips Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035



Data-Center Artificial Intelligence (AI) Chips Market Share

The Business Research Company

LONDON, GREATER LONDON, UNITED KINGDOM, September 29, 2026 /EINPresswire.com/ -- The data-center artificial intelligence (AI) chips market is experiencing rapid growth driven by the increasing integration of AI technologies in various industries. As demand for cloud-based AI services and high-performance computing continues to rise, this market is poised for significant expansion in the coming years. Let's explore the current market size, key growth factors, regional dominance, and emerging trends shaping this dynamic sector.

Current and Future Market Size of Data-Center AI Chips

The data-center artificial intelligence (AI) chips market has expanded swiftly over recent years. It is projected to increase from $15.37 billion in 2025 to $18.4 billion in 2026, demonstrating a strong compound annual growth rate (CAGR) of 19.7%. This surge has been driven by the rising adoption of AI applications, growing demand for cloud-based AI services, expansion of data center infrastructure, the need for high-performance computing, and the increasing deployment of machine learning workloads.

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Looking ahead, the market is expected to continue its rapid growth trajectory, reaching $37.29 billion by 2030, with a CAGR of 19.3%. Key factors fueling this growth include the rising demand for generative AI processing, optimization of AI inference, widespread adoption of specialized AI accelerators, increased investments in AI-focused data centers, and the growing need for energy-efficient AI computing solutions. Important trends forecasting the market's evolution include advanced development of high-performance AI accelerator chips, greater adoption of energy-efficient semiconductor architectures, integration of cutting-edge memory technologies for AI processing, enhanced scalability of AI chips in data center settings, and innovations in chip packaging tailored for AI workloads.

Understanding Data-Center AI Chips and Their Role
Data-center AI chips are specialized semiconductor processors designed specifically to accelerate artificial intelligence tasks within data center environments. They facilitate AI model training, inference operations, data analytics, and high-performance computing. These chips deliver exceptional computational power, energy efficiency, and scalability, serving cloud providers, enterprises, and research institutions that require robust AI processing capabilities.

View the full data-center artificial intelligence (ai) chips market report:
https://www.thebusinessresearchcompany.com/report/data-center-artificial-intelligence-ai-chips-market-global-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Sep_PR

Key Drivers Accelerating Growth in the Data-Center AI Chips Market
One of the significant growth drivers for the data-center AI chips market is the ongoing expansion of 5G infrastructure and connectivity. This includes the hardware, software, and communication technologies that enable ultra-fast, low-latency, and high-capacity wireless connections for various devices, applications, and services. The growing demand for high-speed wireless communication to support data-intensive applications and a multitude of connected devices is fueling this expansion.

Data-center AI chips are pivotal in supporting 5G networks by enabling real-time data processing, optimizing network performance, facilitating edge computing, and providing AI-driven analytics needed to manage vast amounts of data generated by 5G connectivity. For example, in May 2025, Sweden-based telecommunications company Telefonaktiebolaget LM Ericsson projected that 5G mobile subscriptions will increase dramatically from 1.62 billion in 2023 to 6.29 billion by 2030. This rapid growth in 5G usage underscores how the expansion of 5G infrastructure is propelling demand for data-center AI chips.

Leading Regions in the Data-Center AI Chips Market
In 2025, North America held the largest share of the data-center artificial intelligence (AI) chips

market. However, the Asia-Pacific region is expected to emerge as the fastest-growing market during the forecast period. The comprehensive market report covers several key regions including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a broad view of regional growth patterns and opportunities.

New strategic additions in our 2026 market reports include market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based forecasting dashboards, market hotspots infographics, key technologies and future trend analysis, along with updated graphics and tables.

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