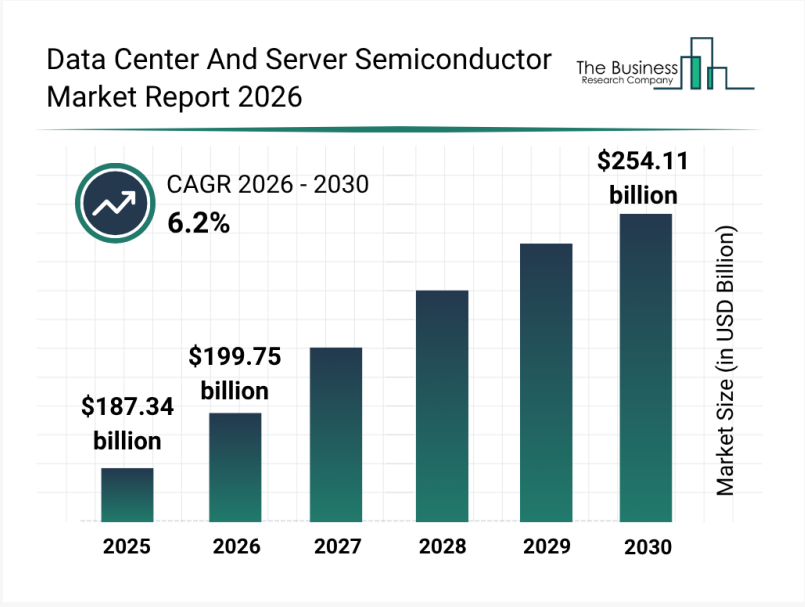
Data Center and Server Semiconductor Market Projected Grow to $254.11 Billion by 2030 Fueled Increasing Industry Demand

The Business Research Company's Data Center and Server Semiconductor Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035



Data Center and Server Semiconductor Market Share

The Business Research Company

LONDON, GREATER LONDON, UNITED KINGDOM, September 29, 2026 /EINPresswire.com/ -- The data center and server semiconductor sector has experienced remarkable growth recently, driven by the expanding needs of modern IT infrastructure. As technology advances and digital services multiply, this market is set to continue its upward trajectory. Let's explore the current market size, growth drivers, regional trends, and key factors shaping the future of this important industry.

Market Size and Growth Projections for the Data Center and Server Semiconductor Market

The market for data center and server semiconductors has expanded significantly over recent years. It is projected to increase from $187.34 billion in 2025 to $199.75 billion in 2026, representing a compound annual growth rate (CAGR) of 6.6%. This historical growth is largely fueled by the rising demand for cloud computing infrastructure, the growing adoption of enterprise data centers, the expansion of hyperscale data centers, the increasing need for high-performance computing systems, and the broad deployment of server infrastructure to support digital services.

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Looking ahead, the market is forecast to maintain solid growth momentum, reaching $254.11 billion by 2030 with a CAGR of 6.2%. Factors contributing to this expansion include heightened demand for AI workloads and data processing, increased requirements for high-bandwidth semiconductor components, greater adoption of edge computing infrastructure, rising investments in next-generation server technologies, and a growing need for scalable data center architectures. Emerging trends expected to influence market dynamics in the coming years involve the adoption of advanced semiconductor architectures for data center computing, development of energy-efficient server semiconductor solutions, incorporation of advanced packaging technologies in data center chips, demand for higher speed memory and processing capabilities, and a stronger focus on semiconductor reliability and thermal management enhancements.

Understanding Data Center and Server Semiconductors and Their Applications
Data center and server semiconductors consist of specialized semiconductor components designed to power data center infrastructure and server systems. These components enable high-speed computing, efficient data processing, vast storage, and seamless network communication. Their primary role is to ensure reliable operation, scalability, and efficient workload management within cloud computing environments, enterprise IT settings, and hyperscale data centers.

View the full data center and server semiconductor market report:
https://www.thebusinessresearchcompany.com/report/data-center-and-server-semiconductor-market-global-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Sep_PR

Growing Preference for Cloud Computing Boosting Semiconductor Demand
The expanding adoption of cloud computing services is a major growth driver for the data center and server semiconductor market. Cloud computing delivers scalable computing resources—such as storage, processing power, networking, and software—via the internet on demand. This model meets the increasing requirement for flexible, cost-effective, and scalable IT infrastructure, allowing businesses to efficiently store, manage, and access data while advancing digital transformation initiatives. The surge in cloud computing usage creates a higher demand for high-performance data center and server semiconductors that support scalable computing power, rapid data processing, and efficient storage to handle growing cloud workloads.

A concrete example of this trend occurred in January 2026, when Eurostat, the official statistical agency of the European Union, reported that in 2025, 52.74% of EU enterprises utilized paid cloud computing services—primarily for email, office software, and file storage—marking an increase compared to 2023. This rise further illustrates how cloud adoption is driving semiconductor demand in data centers and servers.

Regional Distribution and Market Growth Patterns in the Data Center and Server Semiconductor Industry

In 2025, North America held the largest share of the data center and server semiconductor market, reflecting its mature infrastructure and advanced technology adoption. However, the Asia-Pacific region is expected to emerge as the fastest-growing market during the forecast period, supported by expanding digital economies, increasing investments in data center infrastructure, and accelerating adoption of cloud and edge computing technologies. The market report also covers other key regions including South East Asia, Western Europe, Eastern Europe, South America, the Middle East, and Africa, providing a comprehensive view of global market trends and regional dynamics.

Our 2026 market reports now feature expanded strategic intelligence through market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based dashboards, market hotspots infographics, key technology and future trend analysis, along with updated graphics and tables.

Speak With Our Expert:
Saumya Sahay
Americas +1 310-496-7795
Asia +44 7882 955267 & +91 8897263534
Europe +44 7882 955267
Email: marketing@tbrc.info

The Business Research Company - www.thebusinessresearchcompany.com

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• LinkedIn: https://in.linkedin.com/company/the-business-research-company

Oliver Guirdham
The Business Research Company
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