

AI on Edge Semiconductor Market Size, Share, Trends and Growth Forecast to Reach \$15.5 Billion by 2030

The Business Research Company's AI on Edge Semiconductor Market Size, Share, Trends and Growth Forecast to Reach \$15.5 Billion by 2030

LONDON, GREATER LONDON, UNITED KINGDOM, October 13, 2026

/EINPresswire.com/ -- "The [artificial intelligence \(AI\) on edge semiconductor market](#)

is undergoing swift expansion as more industries adopt edge computing technologies. This market is set to transform how data is processed locally on devices, meeting the rising demand for faster, smarter, and more efficient AI applications. Let's explore the market size, growth drivers, key trends, and regional insights shaping the future of AI-enabled edge semiconductors.



Expected to grow to \$15.5 billion in 2030 at a compound annual growth rate (CAGR) of 17.5%"

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Market Size and Growth Expectations for AI on Edge Semiconductor Market

The AI on edge semiconductor market has experienced rapid growth in recent years. It is projected to increase from \$6.89 billion in 2025 to \$8.13 billion in 2026, representing a compound annual growth rate (CAGR) of

17.9%. This historic surge is largely driven by the expanding use of edge computing, a growing need for real-time data processing, the rising deployment of connected devices, demands for low-latency decision-making, and the broader adoption of AI-embedded systems.

Download a free sample of the [artificial intelligence \(ai\) on edge semiconductor market report](#):
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Looking ahead, the market is anticipated to continue its rapid ascent, reaching \$15.5 billion by 2030 with a CAGR of 17.5%. The forecasted growth is expected to stem from rising demand for

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energy-efficient AI processing, increased adoption of autonomous edge devices, a growing need for localized AI inference, greater emphasis on privacy-preserving computing, and the integration of specialized AI accelerators. Key trends include the widespread adoption of on-device AI inference, rising demand for low-latency AI operations, focus on energy efficiency in AI semiconductors, greater incorporation of AI accelerators in edge chips, and heightened requirements for enhanced data privacy at the edge.

Understanding AI on Edge Semiconductors and Their Capabilities

AI on edge semiconductors are specialized chips designed to perform artificial intelligence computations directly on edge devices without relying on cloud infrastructure. These semiconductors combine dedicated AI acceleration with processing power, memory, and connectivity to enable real-time data analysis and low-latency decision-making. Their design emphasizes improved energy efficiency and stronger data privacy, supporting intelligent computing by allowing AI inference to happen close to where data is generated.

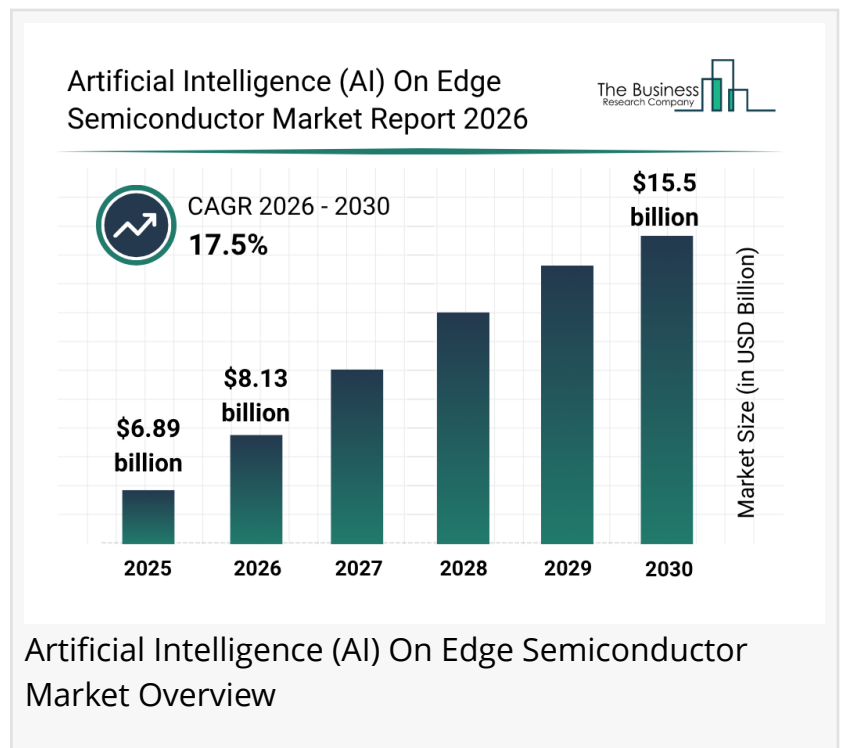
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Key Drivers Fueling Expansion in the AI on Edge Semiconductor Market

A major factor propelling growth in this market is the increasing deployment of Internet of Things (IoT) devices. IoT devices are physical objects equipped with sensors, software, and connectivity that gather, exchange, and process data through the internet. The surge in IoT devices is driven by the demand for automation, as connected devices enable real-time monitoring, data collection, and automated control with minimal human intervention.

These IoT devices play a crucial role in supporting AI on edge semiconductors by providing real-time sensor data that edge AI processors analyze locally. This capability enables intelligent decision-making with low latency, enhances data security and privacy, and powers more efficient, autonomous smart applications. For example, in July 2025, the European Commission reported that approximately 40 billion IoT-connected devices were deployed worldwide in 2023, with



projections reaching 49 billion devices by 2026, representing an annual growth rate of 7%. This rapid expansion in IoT deployment is a significant engine driving the AI on edge semiconductor market forward.

Regional Analysis and Market Dynamics for AI on Edge Semiconductors

In 2025, North America held the largest share of the AI on edge semiconductor market. However, the Asia-Pacific region is forecasted to be the fastest-growing market during the coming years. The market report encompasses key regions including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global market trends and opportunities.

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- 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
- Updated graphics and tables

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