

Global Edge AI ICs Market Growth 2026-2032

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Abstracts

The global Edge AI ICs market size is predicted to grow from US\$ 3648 million in 2025 to US\$ 10840 million in 2032; it is expected to grow at a CAGR of 17.2% from 2026 to 2032.

Edge AI is an emerging technology that combines the power of artificial intelligence (AI) with the advantages of edge computing, enabling the processing of data and execution of AI algorithms directly on devices at the edge of the network, rather than relying on centralized cloud-based systems.

The growth of the Edge AI ICs market is primarily driven by increasing demand for real-time processing, heightened data privacy and security requirements, and the rapid advancement of intelligent edge devices. Applications such as autonomous driving, industrial automation, machine vision, and intelligent surveillance require ultra-low latency and localized decision-making, exposing the limitations of cloud-centric AI architectures in terms of delay and bandwidth cost. At the same time, stricter data protection and compliance regulations favor on-device data processing. In addition, the rapid expansion of IoT deployments, progress in AI model compression and algorithm optimization, and the maturation of advanced process nodes and heterogeneous computing architectures (CPU combined with GPU, NPU, or ASIC) have significantly reduced the cost and complexity of deploying edge AI solutions, accelerating their adoption across a wide range of end-use scenarios.

LP Information, Inc. (LPI) ' newest research report, the "Edge AI ICs Industry Forecast" looks at past sales and reviews total world Edge AI ICs sales in 2025, providing a comprehensive analysis by region and market sector of projected Edge AI ICs sales for 2026 through 2032. With Edge AI ICs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Edge AI ICs industry.

This Insight Report provides a comprehensive analysis of the global Edge AI ICs landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Edge AI ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Edge AI ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Edge AI ICs and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Edge AI ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of Edge AI ICs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Audio And Sound Processing

Machine Vision

Sensor Data Analysis

Others

Segmentation by Computing Performance:

Low Performance (10 TOPS)

Segmentation by Power:

Ultra-low Power (mW-level)

Low Power (

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