

Global Edge AI Processor Chip Market Growth 2025-2031

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Abstracts

The global Edge AI Processor Chip market size is predicted to grow from US\$ 1031 million in 2025 to US\$ 3034 million in 2031; it is expected to grow at a CAGR of 19.7% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Edge AI processor IC is a processor designed specifically to efficiently run artificial intelligence algorithms on terminal devices such as smartphones, IoT devices, and autonomous vehicles. Its purpose is to achieve low-power, high real-time AI computing through hardware-level optimization, forming the core hardware foundation for the implementation of edge AI, and solving a series of problems such as low energy efficiency ratio in the application of traditional chips in mobile devices and the dependence on the cloud. Edge AI processor IC has characteristics such as high energy efficiency ratio, low latency, privacy and security guarantee, and offline operation ability. Its functions are rich and diverse, covering aspects such as architecture design and key technology innovation. For example, it adopts a heterogeneous computing architecture to integrate multiple computing units to handle different tasks, and has key technology innovations such as quantization computing, sparsification acceleration technology, memory-in-computing technology, and dynamic scheduling technology to improve performance.

United States market for Edge AI Processor Chip is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Edge AI Processor Chip is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Edge AI Processor Chip is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Edge AI Processor Chip players cover Syntiant (Knowles), Qualcomm, Ambiq, Hailo Technologies, Kneron, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Edge AI Processor Chip Industry Forecast" looks at past sales and reviews total world Edge AI Processor Chip sales in 2024, providing a comprehensive analysis by region and market sector of projected Edge AI Processor Chip sales for 2025 through 2031. With Edge AI Processor Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Edge AI Processor Chip industry.

This Insight Report provides a comprehensive analysis of the global Edge AI Processor Chip 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 Processor Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Edge AI Processor Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Edge AI Processor Chip 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 Processor Chip.

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

Segmentation by Type:

Audio Edge Processors

Vision Processor Units(VPUs)

Image Signal Processor (ISP)

Segmentation by Application:

Smart Home

Automotive Electronic

Wearable Consumer Electronic

IoT Smart Device

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Syntiant (Knowles)

Qualcomm

Ambiq

Hailo Technologies

Kneron

POLYN Technology

Synsense

Innatera

Imagination Technologies

Ningbo Axera Semiconductor

Zhuhai Actions Technology

Shenzhen Bluetrum Technology

Fuzhou Rockchips Electronics

Zhuhai Spacetouch Technology

Amlogic

Hangzhou Nationalchip Science and Technology

Chengdu Chipintelli

Beijing Unisound AI Technology

Espressif Systems (Shanghai)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Edge AI Processor Chip market?

What factors are driving Edge AI Processor Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Edge AI Processor Chip market opportunities vary by end market size?
How does Edge AI Processor Chip break out by Type, by Application?

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