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Global Edge AI Accelerator Card Market Growth 2025-2031

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Abstracts

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The global Edge AI Accelerator Card market size is predicted to grow from US$ million in 2025 to US$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

Edge AI accelerator cards are used to speed up the processing of massive data and reduce power consumption through division and prioritization. The physical distance between where the data is generated by the accelerator card and where it is processed is shorter, and latency is greatly reduced. It also reduces the amount of power needed to move data, as well as the cost of storing it.

China and the United States are two leaders in AI industry. On the AI 100 list (2022) released by CB Insights, the number of companies in the United States ranks first, with more than 70 companies, followed by the United Kingdom, with 8 companies on the list. China and Canada both holds 5 companies on the list. According to data from the China Academy of Information and Communications Technology, the scale of China's core artificial intelligence industry reached ?508 billion in 2022, a year-on-year increase of 18%. From 2013 to November 2022, the cumulative number of patent applications for artificial intelligence inventions in the world reached 729,000, and the cumulative number of applications in China reached 389,000, accounting for 53.4%. However, the Global Artificial Intelligence Innovation Index Report 2021 released by the China Institute of Scientific and Technological Information shows that the overall strength of the United States is still far ahead. The number of artificial intelligence companies in the United States is about 4,670, while China has only 880. China's data center is less than 1/55 of that of the United States.

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

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

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

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

Segmentation by Type:

CPU Architecture

GPU Architecture

FPGA Architecture

Segmentation by Application:

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- Smart Grid
- Smart Manufacturing
- Smart Rail Transit
- Smart Finance
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe

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- 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.

- Hailo
- Mythic
- Steatite
- Blaize
- Xilinx
- Asus

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Lanner Electronics

IEI Integration

Advantech

NEXCOM

ADLINK

SOPHGO

Axiomtek

Innodisk

Cambricon Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Edge AI Accelerator Card market?

What factors are driving Edge AI Accelerator Card market growth, globally and by region?

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

How do Edge AI Accelerator Card market opportunities vary by end market size?

How does Edge AI Accelerator Card break out by Type, by Application?

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