

Global Edge AI Acceleration Card Market Growth 2026-2032

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Abstracts

The global Edge AI Acceleration Card market size is predicted to grow from US\$ 46360 million in 2025 to US\$ 471710 million in 2032; it is expected to grow at a CAGR of 40.1% from 2026 to 2032.

An edge AI accelerator card is a hardware device designed to accelerate artificial intelligence (AI) reasoning and training tasks in an edge computing environment. It is usually equipped with a high-performance GPU, FPGA, ASIC or a dedicated neural network processor (NPU), and can be directly deployed on a local server, industrial PC or embedded system close to the data source to achieve real-time data processing and intelligent decision-making. The edge AI accelerator card is designed to reduce dependence on cloud resources, reduce latency and increase response speed while ensuring data privacy and security. It has a wide range of application scenarios, including but not limited to intelligent monitoring, autonomous driving, intelligent manufacturing, medical image analysis and other fields.

The development trend of edge AI accelerator cards shows the characteristics of high performance, low power consumption, and multi-functional integration. With the rapid development of the Internet of Things and artificial intelligence, edge computing scenarios have an increasing demand for real-time data processing and low latency, driving AI accelerator cards to optimize towards higher performance and lower energy consumption. In the future, edge AI accelerator cards will adopt more dedicated chip architectures (such as ASIC and FPGA), combined with advanced process technology, to achieve stronger computing power and lower power consumption. In addition, the software ecosystem that supports multiple AI frameworks (such as TensorFlow, PyTorch) will be further improved to enhance development convenience. At the same time, the combination of 5G and edge AI will promote the widespread application of

accelerator cards in smart manufacturing, autonomous driving, smart cities and other fields, bringing new growth points to the industry.

LP Information, Inc. (LPI) ' newest research report, the "Edge AI Acceleration Card Industry Forecast" looks at past sales and reviews total world Edge AI Acceleration Card sales in 2025, providing a comprehensive analysis by region and market sector of projected Edge AI Acceleration Card sales for 2026 through 2032. With Edge AI Acceleration 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 Acceleration Card industry.

This Insight Report provides a comprehensive analysis of the global Edge AI Acceleration 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 Acceleration 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 Acceleration Card market.

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

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

Segmentation by Type:

GPU

FPGA

ASIC

Segmentation by Application:

Cloud Deployment

Terminal Deployment

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.

NVIDIA

AMD

Intel

Huawei

Qualcomm

IBM

Hailo

Denglin Technology

HYGON

Shanghai Iluvatar CoreX Semiconductor Co., Ltd.

Shanghai Suiyuan Technology Co., Ltd.

Kunlunxin

Cambricon Technologies Co., Ltd.

Vastai Technologies

Advantech Co., Ltd.

Key Questions Addressed in this Report

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

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

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

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

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

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