

Global Edge AI Acceleration Card Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Edge AI Acceleration Card market size was valued at US\$ 20090 million in 2023 and is forecast to a readjusted size of USD 246840 million by 2030 with a CAGR of 37.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Edge AI Acceleration Card market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Edge AI Acceleration Card market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Edge AI Acceleration Card market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Edge AI Acceleration Card market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Edge AI Acceleration Card market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Edge AI Acceleration Card

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Edge AI Acceleration Card market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, AMD, Intel, Huawei, Qualcomm, IBM, Hailo, Denglin Technology, HYGON, Shanghai Iluvatar CoreX Semiconductor Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Edge AI Acceleration Card market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- GPU
- FPGA
- ASIC

Market segment by Application

- Cloud Deployment
- Terminal Deployment

Major players covered

- 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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Edge AI Acceleration Card product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Edge AI Acceleration Card, with price, sales quantity, revenue, and global market share of Edge AI Acceleration Card from 2019 to 2024.

Chapter 3, the Edge AI Acceleration Card competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Edge AI Acceleration Card breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Edge AI Acceleration Card market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Edge AI Acceleration Card.

Chapter 14 and 15, to describe Edge AI Acceleration Card sales channel, distributors, customers, research findings and conclusion.

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