

# Global Edge AI Box Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global Edge AI Box market size was valued at USD 829.3 million in 2022 and is forecast to a readjusted size of USD 1381.3 million by 2029 with a CAGR of 7.6% during review period.

The Edge AI Box market is experiencing significant growth and is expected to continue expanding in the coming years. The market is primarily driven by the increasing demand for real-time data processing and analysis at the edge of the network, as well as the growing adoption of AI-powered applications in various industries. The market for Edge AI Boxes is witnessing strong growth across various regions. North America is currently the largest market, driven by the presence of major tech companies and the early adoption of AI technologies. Europe is also a significant market, with countries like Germany, France, and the UK leading the adoption of edge AI solutions. The Asia-Pacific region is expected to witness the highest growth rate, primarily due to the rapid digital transformation and increasing investments in AI technologies in countries like China, Japan, and South Korea. The Edge AI Box market is highly competitive, with several key players dominating the market. These companies have a strong presence in the AI industry and offer a wide range of edge AI solutions. However, there are also several smaller players and startups that are entering the market, offering specialized edge AI Box solutions for specific industries or use cases. The Edge AI Box market presents several opportunities for growth. The increasing demand for real-time data processing and analysis at the edge of the network is driving the adoption of edge AI solutions. Industries such as healthcare, manufacturing, retail, transportation, and smart cities are actively exploring the use of edge AI to improve operational efficiency, enhance customer experience, and enable new services. Additionally, the rise of 5G networks and the Internet of Things (IoT) is expected to further fuel the demand for edge AI solutions. Despite the growth opportunities, the Edge AI Box market also faces

certain challenges. One of the key challenges is the complexity of deploying and managing edge AI solutions. Edge AI Boxes require integration with existing infrastructure, data management, and security considerations, which can be challenging for organizations. Additionally, there are concerns around data privacy and security, as edge AI involves processing sensitive data at the edge of the network. Ensuring data protection and compliance with regulations is crucial for the widespread adoption of edge AI solutions. Overall, the Edge AI Box market is poised for significant growth, driven by the increasing demand for real-time data processing and analysis at the edge of the network. While major players dominate the market, there are also opportunities for smaller players and startups to offer specialized edge AI solutions. However, challenges related to deployment complexity and data privacy need to be addressed for the market to reach its full potential.

The Global Info Research report includes an overview of the development of the Edge AI Box industry chain, the market status of Industrial Automation (GPU-based Edge AI Box, FPGA-based Edge AI Box), Smart Cities (GPU-based Edge AI Box, FPGA-based Edge AI Box), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Edge AI Box.

Regionally, the report analyzes the Edge AI Box markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Edge AI Box market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Edge AI Box market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Edge AI Box industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., GPU-based Edge AI Box, FPGA-based Edge AI Box).

**Industry Analysis:** Report analyse the broader industry trends, such as government

policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Edge AI Box market.

**Regional Analysis:** The report involves examining the Edge AI Box market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Edge AI Box market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Edge AI Box:

**Company Analysis:** Report covers individual Edge AI Box manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Edge AI Box. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial Automation, Smart Cities).

**Technology Analysis:** Report covers specific technologies relevant to Edge AI Box. It assesses the current state, advancements, and potential future developments in Edge AI Box areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Edge AI Box market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Edge AI Box market is split by Type and by Application. For the period 2018-2029, the

growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

#### Market segment by Type

GPU-based Edge AI Box

FPGA-based Edge AI Box

ASIC-based Edge AI Box

CPU-based Edge AI Box

Other

#### Market segment by Application

Industrial Automation

Smart Cities

Retail

Autonomous Vehicles

Agriculture

Transportation and Logistics

Security and Surveillance

Other

#### Major players covered

Qualcomm

Hailo

Intel

Advantech

Thundercomm

Milesight

Inventec

AAEON

3DiVi

Edgematrix

ThunderSoft

JWIPC

Xy-idrive

VVDN

VIVOTEK

SEFORM ELECTRONICS

Econe

LiteMAX

Axiomtek

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 Box product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Edge AI Box, with price, sales, revenue and global market share of Edge AI Box from 2018 to 2023.

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

Chapter 4, the Edge AI Box breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Edge AI Box market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Box.

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

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