

Global Edge AI ICs 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 ICs market size was valued at USD 2796.7 million in 2023 and is forecast to a readjusted size of USD 7822.7 million by 2030 with a CAGR of 15.8% during review period.

Edge AI is an emerging technology that combines the power of artificial intelligence (AI) with the advantages of edge computing, enabling the processing of data and execution of AI algorithms directly on devices at the edge of the network, rather than relying on centralized cloud-based systems.

The Global Info Research report includes an overview of the development of the Edge AI ICs industry chain, the market status of Automotive (Audio And Sound Processing, Machine Vision), Robotics (Audio And Sound Processing, Machine Vision), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Edge AI ICs.

Regionally, the report analyzes the Edge AI ICs 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 ICs market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Edge AI ICs 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 ICs 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., Audio And Sound Processing, Machine Vision).

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 ICs market.

Regional Analysis: The report involves examining the Edge AI ICs 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 ICs 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 ICs:

Company Analysis: Report covers individual Edge AI ICs 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 ICs This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Robotics).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Edge AI ICs 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 ICs 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.

Market segment by Type

Audio And Sound Processing

Machine Vision

Sensor Data Analysis

Others

Market segment by Application

Automotive

Robotics

Smart Manufacturing

Smart City

Security & Surveillance

Others

Major players covered

NVIDIA

Intel

AMD Xilinx

Google

Qualcomm

NXP

STMicroelectronics

Texas Instruments

Kneron

Hailo

Ambarella

Hisilicon

Cambricon

Horizon Robotics

Black Sesame Technologies

Corerain

Amlogic

Ingenic Semiconductor

Fuzhou Rockchip Electronics

OmniVision

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

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

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

Chapter 4, the Edge AI ICs 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 application, with sales market share and growth rate by type, 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 2017 to 2023. and Edge AI ICs market forecast, by regions, type and 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 ICs.

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

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