

Global Edge AI for Automotive Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G8B46DAEC93CEN.html>

Date: November 2025

Pages: 125

Price: US\$ 3,480.00 (Single User License)

ID: G8B46DAEC93CEN

Abstracts

According to our (Global Info Research) latest study, the global Edge AI for Automotive market size was valued at US\$ 1435 million in 2024 and is forecast to a readjusted size of USD 4432 million by 2031 with a CAGR of 17.7% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Edge AI chips are microprocessors specially designed to handle artificial intelligence tasks inside cars. They play a key role in smart driving, assisted driving, autonomous driving and other in-vehicle intelligent systems. These chips need to process a large amount of sensor data, including camera images, radar signals, LiDAR data, ultrasonic sensor information, etc., to achieve real-time environmental perception, object recognition, path planning and other functions.

This report is a detailed and comprehensive analysis for global Edge AI for Automotive 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 2025, are provided.

Key Features:

Global Edge AI for Automotive market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Edge AI for Automotive market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Edge AI for Automotive market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Edge AI for Automotive market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 for Automotive

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 for Automotive 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 STMicroelectronics, NVIDIA, Intel, AMD, Google Cloud, Qualcomm, NXP, Kneron, Hailo, Ambarella, etc.

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

Market Segmentation

Edge AI for Automotive market is split by Type and by Application. For the period 2020-2031, 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

Speech Processing

Machine Vision

Sensing

Market segment by Application

ADAS

Others

Major players covered

STMicroelectronics

NVIDIA

Intel

AMD

Google Cloud

Qualcomm

NXP

Kneron

Hailo

Ambarella

Hisilicon

Cambricon

Horizon Robotics

Black Sesame Technologies

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 for Automotive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Edge AI for Automotive, with price, sales quantity, revenue, and global market share of Edge AI for Automotive from 2020 to 2025.

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

Chapter 4, the Edge AI for Automotive breakdown data are shown at the regional level,

to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Edge AI for Automotive market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 for Automotive.

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

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