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Global Automotive AI chips Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

Automotive AI chips are chips used for AI technologies applied in the automotive field. These chips usually have high-performance computing power and the ability to perform complex algorithm processing, and are used to implement automated driving, intelligent perception, voice recognition, image recognition, natural language processing, and other functions in vehicles. Automotive AI chips can be used to process data from in-vehicle sensors, execute deep learning algorithms, and perform real-time decision-making and control, thereby realising vehicle intelligence, autonomy, and safety performance. These chips typically feature low power consumption, high reliability, and adaptability to the automotive environment to meet the automotive industry's demand for highly integrated, high performance, and low cost.

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

This report is a detailed and comprehensive analysis for global Automotive AI chips 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:

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

Global Automotive AI chips 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 Automotive AI chips 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 Automotive AI chips 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 Automotive AI chips

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 Automotive AI chips 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, Qualcomm, Intel, Advanced Micro Devices, Mobileye, IBM, Black Sesame Technologies, SemiDrive, Huawei, SenseTime, etc.

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

Market Segmentation

Automotive AI chips 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

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analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CPU

GPU

DSP

NPU

Other

Market segment by Application

Passenger Vehicle

Commercial Vehicle

Major players covered

NVIDIA

Qualcomm

Intel

Advanced Micro Devices

Mobileye

IBM

Black Sesame Technologies

SemiDrive

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Huawei

SenseTime

Autobrains

SiLC

Brainchip

Hailo

Kinara

Kneron

StradVision

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

Chapter 2, to profile the top manufacturers of Automotive AI chips, with price, sales

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quantity, revenue, and global market share of Automotive AI chips from 2019 to 2024.

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

Chapter 4, the Automotive AI chips 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 Automotive AI chips 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 Automotive AI chips.

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

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