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Global Automotive Artificial Intelligence Hardware Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Artificial Intelligence Hardware market size was valued at USD 4320.4 million in 2023 and is forecast to a readjusted size of USD 19550 million by 2030 with a CAGR of 24.1% during review period.

Automotive Artificial Intelligence (AI) hardware refers to the physical components that are used to enable AI algorithms and machine learning models to process and analyze data related to the environment and operation of a vehicle. These hardware components are designed to help vehicles perform tasks autonomously or semi-autonomously by processing large amounts of data in real-time.

Some examples of automotive AI hardware include sensors such as cameras, radar, lidar, and ultrasonic sensors that collect data about the vehicle's environment. Processors such as CPUs from Intel and Nvidia are used to analyze the data collected by these sensors and make decisions based on it. Memory is used to temporarily store data, allowing processors to access it quickly. Communication modules enable vehicles to communicate with other vehicles and infrastructure, such as traffic lights and road signs. Finally, power management units are responsible for managing the power supply to the vehicle's components, ensuring that they receive the right amount of power at the right time.

The top 5 suppliers of Automotive Artificial Intelligence Hardware (AHI) worldwide are Nvidia, Intel Corporation, Qualcomm, Micron Technology, Tesla, and Horizon Robotics. Nvidia is the largest player. From the sales side, the main sales markets are North America, Europe, Asia Pacific, South America, the Middle East and Africa, with Asia

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Pacific being the largest sales market, followed by North America and Europe. In terms of type, GPUs occupy a significant market position with a share of about 30%. In terms of their applications, human-machine interface, autonomous driving processor chips and semi-autonomous driving are the main application areas, with autonomous driving processor chips accounting for about 40%.

The Global Info Research report includes an overview of the development of the Automotive Artificial Intelligence Hardware industry chain, the market status of Human-Machine Interface (Graphics processing unit (GPU), Microprocessors (Incl. ASIC)), Semi-autonomous Driving (Graphics processing unit (GPU), Microprocessors (Incl. ASIC)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Automotive Artificial Intelligence Hardware.

Regionally, the report analyzes the Automotive Artificial Intelligence Hardware 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 Automotive Artificial Intelligence Hardware market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Automotive Artificial Intelligence Hardware 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 Automotive Artificial Intelligence Hardware 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 revenue generated, and market share of different by Type (e.g., Graphics processing unit (GPU), Microprocessors (Incl. ASIC)).

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 Automotive Artificial Intelligence Hardware market.

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Regional Analysis: The report involves examining the Automotive Artificial Intelligence Hardware 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 Automotive Artificial Intelligence Hardware market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Automotive Artificial Intelligence Hardware:

Company Analysis: Report covers individual Automotive Artificial Intelligence Hardware players, 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 Automotive Artificial Intelligence Hardware This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Human-Machine Interface, Semi-autonomous Driving).

Technology Analysis: Report covers specific technologies relevant to Automotive Artificial Intelligence Hardware. It assesses the current state, advancements, and potential future developments in Automotive Artificial Intelligence Hardware areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Automotive Artificial Intelligence Hardware 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

Automotive Artificial Intelligence Hardware market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations

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and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Graphics processing unit (GPU)

Microprocessors (Incl. ASIC)

Field Programmable Gate Array (FPGA)

Memory and Storage systems

Image Sensors

Biometric Scanners

Others

Market segment by Application

Human-Machine Interface

Semi-autonomous Driving

Autonomous Driving

Identity Authentication

Driver Monitoring

Autonomous Driving Processor Chips

Market segment by players, this report covers

Nvidia

Intel Corporation

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Qualcomm

Micron Technology

Tesla

Horizon Robotics

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Automotive Artificial Intelligence Hardware product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Automotive Artificial Intelligence Hardware, with revenue, gross margin and global market share of Automotive Artificial Intelligence Hardware from 2019 to 2024.

Chapter 3, the Automotive Artificial Intelligence Hardware competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

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Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024.and Automotive Artificial Intelligence Hardware market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Automotive Artificial Intelligence Hardware.

Chapter 13, to describe Automotive Artificial Intelligence Hardware research findings and conclusion.

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