

# Global Automotive Artificial Intelligence Hardware Market Research Report 2024(Status and Outlook)

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## Abstracts

### Report Overview:

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 Global Automotive Artificial Intelligence Hardware Market Size was estimated at USD 1092.47 million in 2023 and is projected to reach USD 4207.62 million by 2029, exhibiting a CAGR of 25.20% during the forecast period.

This report provides a deep insight into the global Automotive Artificial Intelligence Hardware market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five

forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Automotive Artificial Intelligence Hardware Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Automotive Artificial Intelligence Hardware market in any manner.

### Global Automotive Artificial Intelligence Hardware Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

#### Key Company

Nvidia

Intel Corporation

Qualcomm

Micron Technology

Tesla

Horizon Robotics

Market Segmentation (by Type)

Graphics processing unit (GPU)

Microprocessors (Incl. ASIC)

Field Programmable Gate Array (FPGA)

Memory and Storage systems

Image Sensors

Biometric Scanners

Others

Market Segmentation (by Application)

Human-Machine Interface

Semi-autonomous Driving

Autonomous Driving

Identity Authentication

Driver Monitoring

Autonomous Driving Processor Chips

Geographic Segmentation

North America (USA, Canada, Mexico)

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

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

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

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

#### Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Automotive Artificial Intelligence Hardware Market

Overview of the regional outlook of the Automotive Artificial Intelligence Hardware Market:

#### Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Note: this report may need to undergo a final check or review and this could take about 48 hours.

## Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Automotive Artificial Intelligence Hardware Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the Market's Competitive Landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share,

product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Automotive Artificial Intelligence Hardware
- 1.2 Key Market Segments
  - 1.2.1 Automotive Artificial Intelligence Hardware Segment by Type
  - 1.2.2 Automotive Artificial Intelligence Hardware Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 AUTOMOTIVE ARTIFICIAL INTELLIGENCE HARDWARE MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Automotive Artificial Intelligence Hardware Market Size (M USD) Estimates and Forecasts (2019-2030)
  - 2.1.2 Global Automotive Artificial Intelligence Hardware Sales Estimates and Forecasts (2019-2030)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 AUTOMOTIVE ARTIFICIAL INTELLIGENCE HARDWARE MARKET COMPETITIVE LANDSCAPE**

- 3.1 Global Automotive Artificial Intelligence Hardware Sales by Manufacturers (2019-2024)
- 3.2 Global Automotive Artificial Intelligence Hardware Revenue Market Share by Manufacturers (2019-2024)
- 3.3 Automotive Artificial Intelligence Hardware Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global Automotive Artificial Intelligence Hardware Average Price by Manufacturers (2019-2024)
- 3.5 Manufacturers Automotive Artificial Intelligence Hardware Sales Sites, Area Served, Product Type
- 3.6 Automotive Artificial Intelligence Hardware Market Competitive Situation and Trends



- 3.6.1 Automotive Artificial Intelligence Hardware Market Concentration Rate
- 3.6.2 Global 5 and 10 Largest Automotive Artificial Intelligence Hardware Players Market Share by Revenue
- 3.6.3 Mergers & Acquisitions, Expansion

## **4 AUTOMOTIVE ARTIFICIAL INTELLIGENCE HARDWARE INDUSTRY CHAIN ANALYSIS**

- 4.1 Automotive Artificial Intelligence Hardware Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF AUTOMOTIVE ARTIFICIAL INTELLIGENCE HARDWARE MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Market Restraints
- 5.5 Industry News
  - 5.5.1 New Product Developments
  - 5.5.2 Mergers & Acquisitions
  - 5.5.3 Expansions
  - 5.5.4 Collaboration/Supply Contracts
- 5.6 Industry Policies

## **6 AUTOMOTIVE ARTIFICIAL INTELLIGENCE HARDWARE MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Automotive Artificial Intelligence Hardware Sales Market Share by Type (2019-2024)
- 6.3 Global Automotive Artificial Intelligence Hardware Market Size Market Share by Type (2019-2024)
- 6.4 Global Automotive Artificial Intelligence Hardware Price by Type (2019-2024)

## **7 AUTOMOTIVE ARTIFICIAL INTELLIGENCE HARDWARE MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Automotive Artificial Intelligence Hardware Market Sales by Application (2019-2024)
- 7.3 Global Automotive Artificial Intelligence Hardware Market Size (M USD) by Application (2019-2024)
- 7.4 Global Automotive Artificial Intelligence Hardware Sales Growth Rate by Application (2019-2024)

## **8 AUTOMOTIVE ARTIFICIAL INTELLIGENCE HARDWARE MARKET SEGMENTATION BY REGION**

- 8.1 Global Automotive Artificial Intelligence Hardware Sales by Region
  - 8.1.1 Global Automotive Artificial Intelligence Hardware Sales by Region
  - 8.1.2 Global Automotive Artificial Intelligence Hardware Sales Market Share by Region
- 8.2 North America
  - 8.2.1 North America Automotive Artificial Intelligence Hardware Sales by Country
  - 8.2.2 U.S.
  - 8.2.3 Canada
  - 8.2.4 Mexico
- 8.3 Europe
  - 8.3.1 Europe Automotive Artificial Intelligence Hardware Sales by Country
  - 8.3.2 Germany
  - 8.3.3 France
  - 8.3.4 U.K.
  - 8.3.5 Italy
  - 8.3.6 Russia
- 8.4 Asia Pacific
  - 8.4.1 Asia Pacific Automotive Artificial Intelligence Hardware Sales by Region
  - 8.4.2 China
  - 8.4.3 Japan
  - 8.4.4 South Korea
  - 8.4.5 India
  - 8.4.6 Southeast Asia
- 8.5 South America
  - 8.5.1 South America Automotive Artificial Intelligence Hardware Sales by Country
  - 8.5.2 Brazil
  - 8.5.3 Argentina
  - 8.5.4 Columbia

## 8.6 Middle East and Africa

### 8.6.1 Middle East and Africa Automotive Artificial Intelligence Hardware Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

## 9 KEY COMPANIES PROFILE

### 9.1 Nvidia

9.1.1 Nvidia Automotive Artificial Intelligence Hardware Basic Information

9.1.2 Nvidia Automotive Artificial Intelligence Hardware Product Overview

9.1.3 Nvidia Automotive Artificial Intelligence Hardware Product Market Performance

9.1.4 Nvidia Business Overview

9.1.5 Nvidia Automotive Artificial Intelligence Hardware SWOT Analysis

9.1.6 Nvidia Recent Developments

### 9.2 Intel Corporation

9.2.1 Intel Corporation Automotive Artificial Intelligence Hardware Basic Information

9.2.2 Intel Corporation Automotive Artificial Intelligence Hardware Product Overview

9.2.3 Intel Corporation Automotive Artificial Intelligence Hardware Product Market Performance

9.2.4 Intel Corporation Business Overview

9.2.5 Intel Corporation Automotive Artificial Intelligence Hardware SWOT Analysis

9.2.6 Intel Corporation Recent Developments

### 9.3 Qualcomm

9.3.1 Qualcomm Automotive Artificial Intelligence Hardware Basic Information

9.3.2 Qualcomm Automotive Artificial Intelligence Hardware Product Overview

9.3.3 Qualcomm Automotive Artificial Intelligence Hardware Product Market Performance

9.3.4 Qualcomm Automotive Artificial Intelligence Hardware SWOT Analysis

9.3.5 Qualcomm Business Overview

9.3.6 Qualcomm Recent Developments

### 9.4 Micron Technology

9.4.1 Micron Technology Automotive Artificial Intelligence Hardware Basic Information

9.4.2 Micron Technology Automotive Artificial Intelligence Hardware Product Overview

9.4.3 Micron Technology Automotive Artificial Intelligence Hardware Product Market Performance

- 9.4.4 Micron Technology Business Overview
- 9.4.5 Micron Technology Recent Developments

## 9.5 Tesla

- 9.5.1 Tesla Automotive Artificial Intelligence Hardware Basic Information
- 9.5.2 Tesla Automotive Artificial Intelligence Hardware Product Overview
- 9.5.3 Tesla Automotive Artificial Intelligence Hardware Product Market Performance
- 9.5.4 Tesla Business Overview
- 9.5.5 Tesla Recent Developments

## 9.6 Horizon Robotics

- 9.6.1 Horizon Robotics Automotive Artificial Intelligence Hardware Basic Information
- 9.6.2 Horizon Robotics Automotive Artificial Intelligence Hardware Product Overview
- 9.6.3 Horizon Robotics Automotive Artificial Intelligence Hardware Product Market Performance
- 9.6.4 Horizon Robotics Business Overview
- 9.6.5 Horizon Robotics Recent Developments

## **10 AUTOMOTIVE ARTIFICIAL INTELLIGENCE HARDWARE MARKET FORECAST BY REGION**

- 10.1 Global Automotive Artificial Intelligence Hardware Market Size Forecast
- 10.2 Global Automotive Artificial Intelligence Hardware Market Forecast by Region
  - 10.2.1 North America Market Size Forecast by Country
  - 10.2.2 Europe Automotive Artificial Intelligence Hardware Market Size Forecast by Country
  - 10.2.3 Asia Pacific Automotive Artificial Intelligence Hardware Market Size Forecast by Region
  - 10.2.4 South America Automotive Artificial Intelligence Hardware Market Size Forecast by Country
  - 10.2.5 Middle East and Africa Forecasted Consumption of Automotive Artificial Intelligence Hardware by Country

## **11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)**

- 11.1 Global Automotive Artificial Intelligence Hardware Market Forecast by Type (2025-2030)
  - 11.1.1 Global Forecasted Sales of Automotive Artificial Intelligence Hardware by Type (2025-2030)
  - 11.1.2 Global Automotive Artificial Intelligence Hardware Market Size Forecast by Type (2025-2030)

11.1.3 Global Forecasted Price of Automotive Artificial Intelligence Hardware by Type (2025-2030)

11.2 Global Automotive Artificial Intelligence Hardware Market Forecast by Application (2025-2030)

11.2.1 Global Automotive Artificial Intelligence Hardware Sales (K Units) Forecast by Application

11.2.2 Global Automotive Artificial Intelligence Hardware Market Size (M USD) Forecast by Application (2025-2030)

## **12 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Automotive Artificial Intelligence Hardware Market Size Comparison by Region (M USD)

Table 5. Global Automotive Artificial Intelligence Hardware Sales (K Units) by Manufacturers (2019-2024)

Table 6. Global Automotive Artificial Intelligence Hardware Sales Market Share by Manufacturers (2019-2024)

Table 7. Global Automotive Artificial Intelligence Hardware Revenue (M USD) by Manufacturers (2019-2024)

Table 8. Global Automotive Artificial Intelligence Hardware Revenue Share by Manufacturers (2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Automotive Artificial Intelligence Hardware as of 2022)

Table 10. Global Market Automotive Artificial Intelligence Hardware Average Price (USD/Unit) of Key Manufacturers (2019-2024)

Table 11. Manufacturers Automotive Artificial Intelligence Hardware Sales Sites and Area Served

Table 12. Manufacturers Automotive Artificial Intelligence Hardware Product Type

Table 13. Global Automotive Artificial Intelligence Hardware Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Automotive Artificial Intelligence Hardware

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Automotive Artificial Intelligence Hardware Market Challenges

Table 22. Global Automotive Artificial Intelligence Hardware Sales by Type (K Units)

Table 23. Global Automotive Artificial Intelligence Hardware Market Size by Type (M USD)

Table 24. Global Automotive Artificial Intelligence Hardware Sales (K Units) by Type (2019-2024)

Table 25. Global Automotive Artificial Intelligence Hardware Sales Market Share by Type (2019-2024)

Table 26. Global Automotive Artificial Intelligence Hardware Market Size (M USD) by Type (2019-2024)

Table 27. Global Automotive Artificial Intelligence Hardware Market Size Share by Type (2019-2024)

Table 28. Global Automotive Artificial Intelligence Hardware Price (USD/Unit) by Type (2019-2024)

Table 29. Global Automotive Artificial Intelligence Hardware Sales (K Units) by Application

Table 30. Global Automotive Artificial Intelligence Hardware Market Size by Application

Table 31. Global Automotive Artificial Intelligence Hardware Sales by Application (2019-2024) & (K Units)

Table 32. Global Automotive Artificial Intelligence Hardware Sales Market Share by Application (2019-2024)

Table 33. Global Automotive Artificial Intelligence Hardware Sales by Application (2019-2024) & (M USD)

Table 34. Global Automotive Artificial Intelligence Hardware Market Share by Application (2019-2024)

Table 35. Global Automotive Artificial Intelligence Hardware Sales Growth Rate by Application (2019-2024)

Table 36. Global Automotive Artificial Intelligence Hardware Sales by Region (2019-2024) & (K Units)

Table 37. Global Automotive Artificial Intelligence Hardware Sales Market Share by Region (2019-2024)

Table 38. North America Automotive Artificial Intelligence Hardware Sales by Country (2019-2024) & (K Units)

Table 39. Europe Automotive Artificial Intelligence Hardware Sales by Country (2019-2024) & (K Units)

Table 40. Asia Pacific Automotive Artificial Intelligence Hardware Sales by Region (2019-2024) & (K Units)

Table 41. South America Automotive Artificial Intelligence Hardware Sales by Country (2019-2024) & (K Units)

Table 42. Middle East and Africa Automotive Artificial Intelligence Hardware Sales by Region (2019-2024) & (K Units)

Table 43. Nvidia Automotive Artificial Intelligence Hardware Basic Information

Table 44. Nvidia Automotive Artificial Intelligence Hardware Product Overview

Table 45. Nvidia Automotive Artificial Intelligence Hardware Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 46. Nvidia Business Overview

Table 47. Nvidia Automotive Artificial Intelligence Hardware SWOT Analysis

Table 48. Nvidia Recent Developments

Table 49. Intel Corporation Automotive Artificial Intelligence Hardware Basic Information

Table 50. Intel Corporation Automotive Artificial Intelligence Hardware Product Overview

Table 51. Intel Corporation Automotive Artificial Intelligence Hardware Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 52. Intel Corporation Business Overview

Table 53. Intel Corporation Automotive Artificial Intelligence Hardware SWOT Analysis

Table 54. Intel Corporation Recent Developments

Table 55. Qualcomm Automotive Artificial Intelligence Hardware Basic Information

Table 56. Qualcomm Automotive Artificial Intelligence Hardware Product Overview

Table 57. Qualcomm Automotive Artificial Intelligence Hardware Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 58. Qualcomm Automotive Artificial Intelligence Hardware SWOT Analysis

Table 59. Qualcomm Business Overview

Table 60. Qualcomm Recent Developments

Table 61. Micron Technology Automotive Artificial Intelligence Hardware Basic Information

Table 62. Micron Technology Automotive Artificial Intelligence Hardware Product Overview

Table 63. Micron Technology Automotive Artificial Intelligence Hardware Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 64. Micron Technology Business Overview

Table 65. Micron Technology Recent Developments

Table 66. Tesla Automotive Artificial Intelligence Hardware Basic Information

Table 67. Tesla Automotive Artificial Intelligence Hardware Product Overview

Table 68. Tesla Automotive Artificial Intelligence Hardware Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 69. Tesla Business Overview

Table 70. Tesla Recent Developments

Table 71. Horizon Robotics Automotive Artificial Intelligence Hardware Basic Information

Table 72. Horizon Robotics Automotive Artificial Intelligence Hardware Product Overview

Table 73. Horizon Robotics Automotive Artificial Intelligence Hardware Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 74. Horizon Robotics Business Overview



Table 75. Horizon Robotics Recent Developments

Table 76. Global Automotive Artificial Intelligence Hardware Sales Forecast by Region (2025-2030) & (K Units)

Table 77. Global Automotive Artificial Intelligence Hardware Market Size Forecast by Region (2025-2030) & (M USD)

Table 78. North America Automotive Artificial Intelligence Hardware Sales Forecast by Country (2025-2030) & (K Units)

Table 79. North America Automotive Artificial Intelligence Hardware Market Size Forecast by Country (2025-2030) & (M USD)

Table 80. Europe Automotive Artificial Intelligence Hardware Sales Forecast by Country (2025-2030) & (K Units)

Table 81. Europe Automotive Artificial Intelligence Hardware Market Size Forecast by Country (2025-2030) & (M USD)

Table 82. Asia Pacific Automotive Artificial Intelligence Hardware Sales Forecast by Region (2025-2030) & (K Units)

Table 83. Asia Pacific Automotive Artificial Intelligence Hardware Market Size Forecast by Region (2025-2030) & (M USD)

Table 84. South America Automotive Artificial Intelligence Hardware Sales Forecast by Country (2025-2030) & (K Units)

Table 85. South America Automotive Artificial Intelligence Hardware Market Size Forecast by Country (2025-2030) & (M USD)

Table 86. Middle East and Africa Automotive Artificial Intelligence Hardware Consumption Forecast by Country (2025-2030) & (Units)

Table 87. Middle East and Africa Automotive Artificial Intelligence Hardware Market Size Forecast by Country (2025-2030) & (M USD)

Table 88. Global Automotive Artificial Intelligence Hardware Sales Forecast by Type (2025-2030) & (K Units)

Table 89. Global Automotive Artificial Intelligence Hardware Market Size Forecast by Type (2025-2030) & (M USD)

Table 90. Global Automotive Artificial Intelligence Hardware Price Forecast by Type (2025-2030) & (USD/Unit)

Table 91. Global Automotive Artificial Intelligence Hardware Sales (K Units) Forecast by Application (2025-2030)

Table 92. Global Automotive Artificial Intelligence Hardware Market Size Forecast by Application (2025-2030) & (M USD)

## List Of Figures

### LIST OF FIGURES

Figure 1. Product Picture of Automotive Artificial Intelligence Hardware

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Automotive Artificial Intelligence Hardware Market Size (M USD), 2019-2030

Figure 5. Global Automotive Artificial Intelligence Hardware Market Size (M USD) (2019-2030)

Figure 6. Global Automotive Artificial Intelligence Hardware Sales (K Units) & (2019-2030)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Automotive Artificial Intelligence Hardware Market Size by Country (M USD)

Figure 11. Automotive Artificial Intelligence Hardware Sales Share by Manufacturers in 2023

Figure 12. Global Automotive Artificial Intelligence Hardware Revenue Share by Manufacturers in 2023

Figure 13. Automotive Artificial Intelligence Hardware Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023

Figure 14. Global Market Automotive Artificial Intelligence Hardware Average Price (USD/Unit) of Key Manufacturers in 2023

Figure 15. The Global 5 and 10 Largest Players: Market Share by Automotive Artificial Intelligence Hardware Revenue in 2023

Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 17. Global Automotive Artificial Intelligence Hardware Market Share by Type

Figure 18. Sales Market Share of Automotive Artificial Intelligence Hardware by Type (2019-2024)

Figure 19. Sales Market Share of Automotive Artificial Intelligence Hardware by Type in 2023

Figure 20. Market Size Share of Automotive Artificial Intelligence Hardware by Type (2019-2024)

Figure 21. Market Size Market Share of Automotive Artificial Intelligence Hardware by Type in 2023

Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 23. Global Automotive Artificial Intelligence Hardware Market Share by

## Application

Figure 24. Global Automotive Artificial Intelligence Hardware Sales Market Share by Application (2019-2024)

Figure 25. Global Automotive Artificial Intelligence Hardware Sales Market Share by Application in 2023

Figure 26. Global Automotive Artificial Intelligence Hardware Market Share by Application (2019-2024)

Figure 27. Global Automotive Artificial Intelligence Hardware Market Share by Application in 2023

Figure 28. Global Automotive Artificial Intelligence Hardware Sales Growth Rate by Application (2019-2024)

Figure 29. Global Automotive Artificial Intelligence Hardware Sales Market Share by Region (2019-2024)

Figure 30. North America Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 31. North America Automotive Artificial Intelligence Hardware Sales Market Share by Country in 2023

Figure 32. U.S. Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada Automotive Artificial Intelligence Hardware Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico Automotive Artificial Intelligence Hardware Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe Automotive Artificial Intelligence Hardware Sales Market Share by Country in 2023

Figure 37. Germany Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific Automotive Artificial Intelligence Hardware Sales and Growth Rate (K Units)

Figure 43. Asia Pacific Automotive Artificial Intelligence Hardware Sales Market Share by Region in 2023

Figure 44. China Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America Automotive Artificial Intelligence Hardware Sales and Growth Rate (K Units)

Figure 50. South America Automotive Artificial Intelligence Hardware Sales Market Share by Country in 2023

Figure 51. Brazil Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa Automotive Artificial Intelligence Hardware Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa Automotive Artificial Intelligence Hardware Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa Automotive Artificial Intelligence Hardware Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global Automotive Artificial Intelligence Hardware Sales Forecast by Volume (2019-2030) & (K Units)

Figure 62. Global Automotive Artificial Intelligence Hardware Market Size Forecast by

Value (2019-2030) & (M USD)

Figure 63. Global Automotive Artificial Intelligence Hardware Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global Automotive Artificial Intelligence Hardware Market Share Forecast by Type (2025-2030)

Figure 65. Global Automotive Artificial Intelligence Hardware Sales Forecast by Application (2025-2030)

Figure 66. Global Automotive Artificial Intelligence Hardware Market Share Forecast by Application (2025-2030)

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