

Global Edge AI for Automotive Market Research Report 2026(Status and Outlook)

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Abstracts

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.

The global Edge AI for Automotive market size was estimated at USD 1395.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 18.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Edge AI for Automotive market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Edge AI for Automotive market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of

market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Edge AI for Automotive market.

Global Edge AI for Automotive Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

STMicroelectronics
NVIDIA
Intel
AMD
Google Cloud
Qualcomm
NXP
Kneron
Hailo
Ambarella
Hisilicon
Cambricon
Horizon Robotics
Black Sesame Technologies

Market Segmentation (by Type)

Speech Processing
Machine Vision
Sensing

Market Segmentation (by Application)

ADAS
Others

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 Edge AI for Automotive Market
Overview of the regional outlook of the Edge AI for Automotive Market:

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.

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 Edge AI for Automotive 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 shares the main producing countries of Edge AI for Automotive, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 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 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

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 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

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Edge AI for Automotive
- 1.2 Key Market Segments
 - 1.2.1 Edge AI for Automotive Segment by Type
 - 1.2.2 Edge AI for Automotive 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
- 1.4 Key Data of Global Auto Market
 - 1.4.1 Global Automobile Production by Country
 - 1.4.2 Global Automobile Production by Type

2 EDGE AI FOR AUTOMOTIVE MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Edge AI for Automotive Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Edge AI for Automotive Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 EDGE AI FOR AUTOMOTIVE MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Edge AI for Automotive Product Life Cycle
- 3.3 Global Edge AI for Automotive Sales by Manufacturers (2020-2025)
- 3.4 Global Edge AI for Automotive Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Edge AI for Automotive Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Edge AI for Automotive Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Edge AI for Automotive Market Competitive Situation and Trends
 - 3.8.1 Edge AI for Automotive Market Concentration Rate

3.8.2 Global 5 and 10 Largest Edge AI for Automotive Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 EDGE AI FOR AUTOMOTIVE INDUSTRY CHAIN ANALYSIS

4.1 Edge AI for Automotive 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 EDGE AI FOR AUTOMOTIVE MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Edge AI for Automotive Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Edge AI for Automotive Market

5.7 ESG Ratings of Leading Companies

6 EDGE AI FOR AUTOMOTIVE MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Edge AI for Automotive Sales Market Share by Type (2020-2025)

6.3 Global Edge AI for Automotive Market Size by Type (2020-2025)

6.4 Global Edge AI for Automotive Price by Type (2020-2025)

7 EDGE AI FOR AUTOMOTIVE MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Edge AI for Automotive Market Sales by Application (2020-2025)
- 7.3 Global Edge AI for Automotive Market Size (M USD) by Application (2020-2025)
- 7.4 Global Edge AI for Automotive Sales Growth Rate by Application (2020-2025)

8 EDGE AI FOR AUTOMOTIVE MARKET SALES BY REGION

- 8.1 Global Edge AI for Automotive Sales by Region
 - 8.1.1 Global Edge AI for Automotive Sales by Region
 - 8.1.2 Global Edge AI for Automotive Sales Market Share by Region
- 8.2 Global Edge AI for Automotive Market Size by Region
 - 8.2.1 Global Edge AI for Automotive Market Size by Region
 - 8.2.2 Global Edge AI for Automotive Market Size by Region
- 8.3 North America
 - 8.3.1 North America Edge AI for Automotive Sales by Country
 - 8.3.2 North America Edge AI for Automotive Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Edge AI for Automotive Sales by Country
 - 8.4.2 Europe Edge AI for Automotive Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Edge AI for Automotive Sales by Region
 - 8.5.2 Asia Pacific Edge AI for Automotive Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Edge AI for Automotive Sales by Country

8.6.2 South America Edge AI for Automotive Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Edge AI for Automotive Sales by Region

8.7.2 Middle East and Africa Edge AI for Automotive Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 EDGE AI FOR AUTOMOTIVE MARKET PRODUCTION BY REGION

9.1 Global Production of Edge AI for Automotive by Region(2020-2025)

9.2 Global Edge AI for Automotive Revenue Market Share by Region (2020-2025)

9.3 Global Edge AI for Automotive Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Edge AI for Automotive Production

9.4.1 North America Edge AI for Automotive Production Growth Rate (2020-2025)

9.4.2 North America Edge AI for Automotive Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Edge AI for Automotive Production

9.5.1 Europe Edge AI for Automotive Production Growth Rate (2020-2025)

9.5.2 Europe Edge AI for Automotive Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Edge AI for Automotive Production (2020-2025)

9.6.1 Japan Edge AI for Automotive Production Growth Rate (2020-2025)

9.6.2 Japan Edge AI for Automotive Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Edge AI for Automotive Production (2020-2025)

9.7.1 China Edge AI for Automotive Production Growth Rate (2020-2025)

9.7.2 China Edge AI for Automotive Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 STMicroelectronics

- 10.1.1 STMicroelectronics Basic Information
- 10.1.2 STMicroelectronics Edge AI for Automotive Product Overview
- 10.1.3 STMicroelectronics Edge AI for Automotive Product Market Performance
- 10.1.4 STMicroelectronics Business Overview
- 10.1.5 STMicroelectronics SWOT Analysis
- 10.1.6 STMicroelectronics Recent Developments
- 10.2 NVIDIA
 - 10.2.1 NVIDIA Basic Information
 - 10.2.2 NVIDIA Edge AI for Automotive Product Overview
 - 10.2.3 NVIDIA Edge AI for Automotive Product Market Performance
 - 10.2.4 NVIDIA Business Overview
 - 10.2.5 NVIDIA SWOT Analysis
 - 10.2.6 NVIDIA Recent Developments
- 10.3 Intel
 - 10.3.1 Intel Basic Information
 - 10.3.2 Intel Edge AI for Automotive Product Overview
 - 10.3.3 Intel Edge AI for Automotive Product Market Performance
 - 10.3.4 Intel Business Overview
 - 10.3.5 Intel SWOT Analysis
 - 10.3.6 Intel Recent Developments
- 10.4 AMD
 - 10.4.1 AMD Basic Information
 - 10.4.2 AMD Edge AI for Automotive Product Overview
 - 10.4.3 AMD Edge AI for Automotive Product Market Performance
 - 10.4.4 AMD Business Overview
 - 10.4.5 AMD Recent Developments
- 10.5 Google Cloud
 - 10.5.1 Google Cloud Basic Information
 - 10.5.2 Google Cloud Edge AI for Automotive Product Overview
 - 10.5.3 Google Cloud Edge AI for Automotive Product Market Performance
 - 10.5.4 Google Cloud Business Overview
 - 10.5.5 Google Cloud Recent Developments
- 10.6 Qualcomm
 - 10.6.1 Qualcomm Basic Information
 - 10.6.2 Qualcomm Edge AI for Automotive Product Overview
 - 10.6.3 Qualcomm Edge AI for Automotive Product Market Performance
 - 10.6.4 Qualcomm Business Overview
 - 10.6.5 Qualcomm Recent Developments
- 10.7 NXP

- 10.7.1 NXP Basic Information
- 10.7.2 NXP Edge AI for Automotive Product Overview
- 10.7.3 NXP Edge AI for Automotive Product Market Performance
- 10.7.4 NXP Business Overview
- 10.7.5 NXP Recent Developments
- 10.8 Kneron
 - 10.8.1 Kneron Basic Information
 - 10.8.2 Kneron Edge AI for Automotive Product Overview
 - 10.8.3 Kneron Edge AI for Automotive Product Market Performance
 - 10.8.4 Kneron Business Overview
 - 10.8.5 Kneron Recent Developments
- 10.9 Hailo
 - 10.9.1 Hailo Basic Information
 - 10.9.2 Hailo Edge AI for Automotive Product Overview
 - 10.9.3 Hailo Edge AI for Automotive Product Market Performance
 - 10.9.4 Hailo Business Overview
 - 10.9.5 Hailo Recent Developments
- 10.10 Ambarella
 - 10.10.1 Ambarella Basic Information
 - 10.10.2 Ambarella Edge AI for Automotive Product Overview
 - 10.10.3 Ambarella Edge AI for Automotive Product Market Performance
 - 10.10.4 Ambarella Business Overview
 - 10.10.5 Ambarella Recent Developments
- 10.11 Hisilicon
 - 10.11.1 Hisilicon Basic Information
 - 10.11.2 Hisilicon Edge AI for Automotive Product Overview
 - 10.11.3 Hisilicon Edge AI for Automotive Product Market Performance
 - 10.11.4 Hisilicon Business Overview
 - 10.11.5 Hisilicon Recent Developments
- 10.12 Cambricon
 - 10.12.1 Cambricon Basic Information
 - 10.12.2 Cambricon Edge AI for Automotive Product Overview
 - 10.12.3 Cambricon Edge AI for Automotive Product Market Performance
 - 10.12.4 Cambricon Business Overview
 - 10.12.5 Cambricon Recent Developments
- 10.13 Horizon Robotics
 - 10.13.1 Horizon Robotics Basic Information
 - 10.13.2 Horizon Robotics Edge AI for Automotive Product Overview
 - 10.13.3 Horizon Robotics Edge AI for Automotive Product Market Performance

- 10.13.4 Horizon Robotics Business Overview
- 10.13.5 Horizon Robotics Recent Developments
- 10.14 Black Sesame Technologies
 - 10.14.1 Black Sesame Technologies Basic Information
 - 10.14.2 Black Sesame Technologies Edge AI for Automotive Product Overview
 - 10.14.3 Black Sesame Technologies Edge AI for Automotive Product Market Performance
 - 10.14.4 Black Sesame Technologies Business Overview
 - 10.14.5 Black Sesame Technologies Recent Developments

11 EDGE AI FOR AUTOMOTIVE MARKET FORECAST BY REGION

- 11.1 Global Edge AI for Automotive Market Size Forecast
- 11.2 Global Edge AI for Automotive Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Edge AI for Automotive Market Size Forecast by Country
 - 11.2.3 Asia Pacific Edge AI for Automotive Market Size Forecast by Region
 - 11.2.4 South America Edge AI for Automotive Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Edge AI for Automotive by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Edge AI for Automotive Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Edge AI for Automotive by Type (2026-2035)
 - 12.1.2 Global Edge AI for Automotive Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Edge AI for Automotive by Type (2026-2035)
- 12.2 Global Edge AI for Automotive Market Forecast by Application (2026-2035)
 - 12.2.1 Global Edge AI for Automotive Sales (K Units) Forecast by Application
 - 12.2.2 Global Edge AI for Automotive Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type
Table 2. Introduction of the Application
Table 3. Global Automobile Production by Region (Units)
Table 4. Market Share and Development Potential of Automobiles by Region
Table 5. Global Automobile Production by Country (Units)
Table 6. Market Share and Development Potential of Automobiles by Country
Table 7. Motor Vehicle Production Market Share by Type (2024)
Table 8. Global Automobile Production by Type
Table 9. Market Share and Development Potential of Automobiles by Type
Table 10. Global Edge AI for Automotive Market Size by Type (M USD)
Table 11. Global Edge AI for Automotive Market Size by Application
Table 12. Edge AI for Automotive Market Size Comparison by Region (M USD)
Table 13. Global Edge AI for Automotive Sales (K Units) by Manufacturers (2020-2025)
Table 14. Global Edge AI for Automotive Sales Market Share by Manufacturers (2020-2025)
Table 15. Global Edge AI for Automotive Revenue (M USD) by Manufacturers (2020-2025)
Table 16. Global Edge AI for Automotive Revenue Share by Manufacturers (2020-2025)
Table 17. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Edge AI for Automotive as of 2025)
Table 18. Global Market Edge AI for Automotive Average Price (USD/Unit) of Key Manufacturers (2020-2025)
Table 19. Manufacturers? Manufacturing Sites, Areas Served
Table 20. Manufacturers? Product Type
Table 21. Global Edge AI for Automotive Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 22. Mergers & Acquisitions, Expansion Plans
Table 23. Market Overview of Key Raw Materials
Table 24. Midstream Market Analysis
Table 25. Downstream Customer Analysis
Table 26. Key Development Trends
Table 27. Driving Factors
Table 28. Edge AI for Automotive Market Challenges
Table 29. Goldman Sachs' forecast real GDP growth rate for 2025-2026
Table 30. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 31. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 32. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 33. Global Edge AI for Automotive Sales by Type (K Units)

Table 34. Global Edge AI for Automotive Market Size by Type (M USD)

Table 35. Global Edge AI for Automotive Sales (K Units) by Type (2020-2025)

Table 36. Global Edge AI for Automotive Sales Market Share by Type (2020-2025)

Table 37. Global Edge AI for Automotive Market Size (M USD) by Type (2020-2025)

Table 38. Global Edge AI for Automotive Market Share by Type (2020-2025)

Table 39. Global Edge AI for Automotive Price (USD/Unit) by Type (2020-2025)

Table 40. Global Edge AI for Automotive Sales (K Units) by Application

Table 41. Global Edge AI for Automotive Market Size by Application

Table 42. Global Edge AI for Automotive Sales by Application (2020-2025) & (K Units)

Table 43. Global Edge AI for Automotive Sales Market Share by Application (2020-2025)

Table 44. Global Edge AI for Automotive Market Size by Application (2020-2025) & (M USD)

Table 45. Global Edge AI for Automotive Market Share by Application (2020-2025)

Table 46. Global Edge AI for Automotive Sales Growth Rate by Application (2020-2025)

Table 47. Global Edge AI for Automotive Sales by Region (2020-2025) & (K Units)

Table 48. Global Edge AI for Automotive Sales Market Share by Region (2020-2025)

Table 49. Global Edge AI for Automotive Market Size by Region (2020-2025) & (M USD)

Table 50. Global Edge AI for Automotive Market Size by Region (2020-2025)

Table 51. North America Edge AI for Automotive Sales by Country (2020-2025) & (K Units)

Table 52. North America Edge AI for Automotive Market Size by Country (2020-2025) & (M USD)

Table 53. Europe Edge AI for Automotive Sales by Country (2020-2025) & (K Units)

Table 54. Europe Edge AI for Automotive Market Size by Country (2020-2025) & (M USD)

Table 55. Asia Pacific Edge AI for Automotive Sales by Region (2020-2025) & (K Units)

Table 56. Asia Pacific Edge AI for Automotive Market Size by Region (2020-2025) & (M USD)

Table 57. South America Edge AI for Automotive Sales by Country (2020-2025) & (K Units)

Table 58. South America Edge AI for Automotive Market Size by Country (2020-2025) & (M USD)

Table 59. Middle East and Africa Edge AI for Automotive Sales by Region (2020-2025)

& (K Units)

Table 60. Middle East and Africa Edge AI for Automotive Market Size by Region (2020-2025) & (M USD)

Table 61. Global Edge AI for Automotive Production (K Units) by Region(2020-2025)

Table 62. Global Edge AI for Automotive Revenue (US\$ Million) by Region (2020-2025)

Table 63. Global Edge AI for Automotive Revenue Market Share by Region (2020-2025)

Table 64. Global Edge AI for Automotive Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. North America Edge AI for Automotive Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 66. Europe Edge AI for Automotive Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 67. Japan Edge AI for Automotive Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 68. China Edge AI for Automotive Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 69. STMicroelectronics Basic Information

Table 70. STMicroelectronics Edge AI for Automotive Product Overview

Table 71. STMicroelectronics Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 72. STMicroelectronics Business Overview

Table 73. STMicroelectronics SWOT Analysis

Table 74. STMicroelectronics Recent Developments

Table 75. NVIDIA Basic Information

Table 76. NVIDIA Edge AI for Automotive Product Overview

Table 77. NVIDIA Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 78. NVIDIA Business Overview

Table 79. NVIDIA SWOT Analysis

Table 80. NVIDIA Recent Developments

Table 81. Intel Basic Information

Table 82. Intel Edge AI for Automotive Product Overview

Table 83. Intel Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 84. Intel Business Overview

Table 85. Intel SWOT Analysis

Table 86. Intel Recent Developments

Table 87. AMD Basic Information

Table 88. AMD Edge AI for Automotive Product Overview

Table 89. AMD Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 90. AMD Business Overview

Table 91. AMD Recent Developments

Table 92. Google Cloud Basic Information

Table 93. Google Cloud Edge AI for Automotive Product Overview

Table 94. Google Cloud Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 95. Google Cloud Business Overview

Table 96. Google Cloud Recent Developments

Table 97. Qualcomm Basic Information

Table 98. Qualcomm Edge AI for Automotive Product Overview

Table 99. Qualcomm Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 100. Qualcomm Business Overview

Table 101. Qualcomm Recent Developments

Table 102. NXP Basic Information

Table 103. NXP Edge AI for Automotive Product Overview

Table 104. NXP Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 105. NXP Business Overview

Table 106. NXP Recent Developments

Table 107. Kneron Basic Information

Table 108. Kneron Edge AI for Automotive Product Overview

Table 109. Kneron Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 110. Kneron Business Overview

Table 111. Kneron Recent Developments

Table 112. Hailo Basic Information

Table 113. Hailo Edge AI for Automotive Product Overview

Table 114. Hailo Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 115. Hailo Business Overview

Table 116. Hailo Recent Developments

Table 117. Ambarella Basic Information

Table 118. Ambarella Edge AI for Automotive Product Overview

Table 119. Ambarella Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 120. Ambarella Business Overview

Table 121. Ambarella Recent Developments
Table 122. Hisilicon Basic Information
Table 123. Hisilicon Edge AI for Automotive Product Overview
Table 124. Hisilicon Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 125. Hisilicon Business Overview
Table 126. Hisilicon Recent Developments
Table 127. Cambricon Basic Information
Table 128. Cambricon Edge AI for Automotive Product Overview
Table 129. Cambricon Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 130. Cambricon Business Overview
Table 131. Cambricon Recent Developments
Table 132. Horizon Robotics Basic Information
Table 133. Horizon Robotics Edge AI for Automotive Product Overview
Table 134. Horizon Robotics Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 135. Horizon Robotics Business Overview
Table 136. Horizon Robotics Recent Developments
Table 137. Black Sesame Technologies Basic Information
Table 138. Black Sesame Technologies Edge AI for Automotive Product Overview
Table 139. Black Sesame Technologies Edge AI for Automotive Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 140. Black Sesame Technologies Business Overview
Table 141. Black Sesame Technologies Recent Developments
Table 142. Global Edge AI for Automotive Sales Forecast by Region (2026-2035) & (K Units)
Table 143. Global Edge AI for Automotive Market Size Forecast by Region (2026-2035) & (M USD)
Table 144. North America Edge AI for Automotive Sales Forecast by Country (2026-2035) & (K Units)
Table 145. North America Edge AI for Automotive Market Size Forecast by Country (2026-2035) & (M USD)
Table 146. Europe Edge AI for Automotive Sales Forecast by Country (2026-2035) & (K Units)
Table 147. Europe Edge AI for Automotive Market Size Forecast by Country (2026-2035) & (M USD)
Table 148. Asia Pacific Edge AI for Automotive Sales Forecast by Region (2026-2035) & (K Units)

Table 149. Asia Pacific Edge AI for Automotive Market Size Forecast by Region (2026-2035) & (M USD)

Table 150. South America Edge AI for Automotive Sales Forecast by Country (2026-2035) & (K Units)

Table 151. South America Edge AI for Automotive Market Size Forecast by Country (2026-2035) & (M USD)

Table 152. Middle East and Africa Edge AI for Automotive Sales Forecast by Country (2026-2035) & (Units)

Table 153. Middle East and Africa Edge AI for Automotive Market Size Forecast by Country (2026-2035) & (M USD)

Table 154. Global Edge AI for Automotive Sales Forecast by Type (2026-2035) & (K Units)

Table 155. Global Edge AI for Automotive Market Size Forecast by Type (2026-2035) & (M USD)

Table 156. Global Edge AI for Automotive Price Forecast by Type (2026-2035) & (USD/Unit)

Table 157. Global Edge AI for Automotive Sales (K Units) Forecast by Application (2026-2035)

Table 158. Global Edge AI for Automotive Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Edge AI for Automotive
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Motor Vehicle Production (M Units)
- Figure 5. Global Edge AI for Automotive Market Size (M USD), 2025-2035
- Figure 6. Global Edge AI for Automotive Market Size (M USD) (2020-2035)
- Figure 7. Global Edge AI for Automotive Sales (K Units) & (2020-2035)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 9. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 10. Evaluation Matrix of Regional Market Development Potential
- Figure 11. Edge AI for Automotive Market Size by Country (M USD)
- Figure 12. Company Assessment Quadrant
- Figure 13. Global Edge AI for Automotive Product Life Cycle
- Figure 14. Edge AI for Automotive Sales Share by Manufacturers in 2025
- Figure 15. Global Edge AI for Automotive Revenue Share by Manufacturers in 2025
- Figure 16. Edge AI for Automotive Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 17. Global Market Edge AI for Automotive Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 18. The Global 5 and 10 Largest Players: Market Share by Edge AI for Automotive Revenue in 2025
- Figure 19. Industry Chain Map of Edge AI for Automotive
- Figure 20. Global Edge AI for Automotive Market PEST Analysis
- Figure 21. Global Edge AI for Automotive Market Porter's Five Forces Analysis
- Figure 22. Global Merchandise Trade as a Percentage Of GDP
- Figure 23. US - Imports of Goods by Country
- Figure 24. China Exports by Country
- Figure 25. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 26. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 27. Global Edge AI for Automotive Market Share by Type
- Figure 28. Sales Market Share of Edge AI for Automotive by Type (2020-2025)
- Figure 29. Sales Market Share of Edge AI for Automotive by Type in 2025
- Figure 30. Market Share of Edge AI for Automotive by Type (2020-2025)
- Figure 31. Market Share of Edge AI for Automotive by Type in 2025
- Figure 32. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 33. Global Edge AI for Automotive Market Share by Application

Figure 34. Global Edge AI for Automotive Sales Market Share by Application
(2020-2025)

Figure 35. Global Edge AI for Automotive Sales Market Share by Application in 2025

Figure 36. Global Edge AI for Automotive Market Share by Application (2020-2025)

Figure 37. Global Edge AI for Automotive Market Share by Application in 2025

Figure 38. Global Edge AI for Automotive Sales Growth Rate by Application
(2020-2025)

Figure 39. Global Edge AI for Automotive Sales Market Share by Region (2020-2025)

Figure 40. Global Edge AI for Automotive Market Size by Region (2020-2025)

Figure 41. North America Edge AI for Automotive Sales and Growth Rate (2020-2025)
& (K Units)

Figure 42. North America Edge AI for Automotive Sales and Growth Rate (2020-2025)
& (K Units)

Figure 43. North America Edge AI for Automotive Sales Market Share by Country in
2024

Figure 44. North America Edge AI for Automotive Market Size and Growth Rate
(2020-2025) & (M USD)

Figure 45. North America Edge AI for Automotive Market Size by Country in 2024

Figure 46. U.S. Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 47. U.S. Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M
USD)

Figure 48. Canada Edge AI for Automotive Sales (K Units) and Growth Rate
(2020-2025)

Figure 49. Canada Edge AI for Automotive Market Size (M USD) and Growth Rate
(2020-2025)

Figure 50. Mexico Edge AI for Automotive Sales (Units) and Growth Rate (2020-2025)

Figure 51. Mexico Edge AI for Automotive Market Size (Units) and Growth Rate
(2020-2025)

Figure 52. Europe Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K
Units)

Figure 53. Europe Edge AI for Automotive Sales Market Share by Country in 2024

Figure 54. Europe Edge AI for Automotive Market Size and Growth Rate (2020-2025) &
(M USD)

Figure 55. Europe Edge AI for Automotive Market Size by Country in 2024

Figure 56. Germany Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K
Units)

Figure 57. Germany Edge AI for Automotive Market Size and Growth Rate (2020-2025)
& (M USD)

Figure 58. France Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 59. France Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 60. U.K. Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 61. U.K. Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 62. Italy Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 63. Italy Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 64. Spain Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 65. Spain Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 66. Asia Pacific Edge AI for Automotive Sales and Growth Rate (K Units)

Figure 67. Asia Pacific Edge AI for Automotive Sales Market Share by Region in 2024

Figure 68. Asia Pacific Edge AI for Automotive Market Size by Region in 2024

Figure 69. China Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 70. China Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 71. Japan Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 72. Japan Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 73. South Korea Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 74. South Korea Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 75. India Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 76. India Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 77. Southeast Asia Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 78. Southeast Asia Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 79. South America Edge AI for Automotive Sales and Growth Rate (K Units)

Figure 80. South America Edge AI for Automotive Sales Market Share by Country in 2024

Figure 81. South America Edge AI for Automotive Market Size and Growth Rate (M USD)

Figure 82. South America Edge AI for Automotive Market Size by Country in 2024

Figure 83. Brazil Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 84. Brazil Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 85. Argentina Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 86. Argentina Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 87. Columbia Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 88. Columbia Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 89. Middle East and Africa Edge AI for Automotive Sales and Growth Rate (K Units)

Figure 90. Middle East and Africa Edge AI for Automotive Sales Market Share by Region in 2024

Figure 91. Middle East and Africa Edge AI for Automotive Market Size and Growth Rate (M USD)

Figure 92. Middle East and Africa Edge AI for Automotive Market Size by Region in 2024

Figure 93. Saudi Arabia Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 94. Saudi Arabia Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 95. UAE Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 96. UAE Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 97. Egypt Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 98. Egypt Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 99. Nigeria Edge AI for Automotive Sales and Growth Rate (2020-2025) & (K Units)

Figure 100. Nigeria Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 101. South Africa Edge AI for Automotive Sales and Growth Rate (2020-2025) &

(K Units)

Figure 102. South Africa Edge AI for Automotive Market Size and Growth Rate (2020-2025) & (M USD)

Figure 103. Global Edge AI for Automotive Production Market Share by Region (2020-2025)

Figure 104. North America Edge AI for Automotive Production (K Units) Growth Rate (2020-2025)

Figure 105. Europe Edge AI for Automotive Production (K Units) Growth Rate (2020-2025)

Figure 106. Japan Edge AI for Automotive Production (K Units) Growth Rate (2020-2025)

Figure 107. China Edge AI for Automotive Production (K Units) Growth Rate (2020-2025)

Figure 108. Global Edge AI for Automotive Sales Forecast by Volume (2020-2035) & (K Units)

Figure 109. Global Edge AI for Automotive Market Size Forecast by Value (2020-2035) & (M USD)

Figure 110. Global Edge AI for Automotive Sales Market Share Forecast by Type (2026-2035)

Figure 111. Global Edge AI for Automotive Market Share Forecast by Type (2026-2035)

Figure 112. Global Edge AI for Automotive Sales Forecast by Application (2026-2035)

Figure 113. Global Edge AI for Automotive Market Share Forecast by Application (2026-2035)

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