

Global Automotive Grade Smart Automotive Computing Chip Market Growth 2023-2029

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Abstracts

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According to our (LP Info Research) latest study, the global Automotive Grade Smart Automotive Computing Chip market size was valued at US\$ million in 2022. With growing demand in downstream market and recovery from influence of COVID-19 and the Russia-Ukraine War, the Automotive Grade Smart Automotive Computing Chip is forecast to a readjusted size of US\$ million by 2029 with a CAGR of % during review period.

The research report highlights the growth potential of the global Automotive Grade Smart Automotive Computing Chip market. With recovery from influence of COVID-19 and the Russia-Ukraine War, Automotive Grade Smart Automotive Computing Chip are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Automotive Grade Smart Automotive Computing Chip. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Automotive Grade Smart Automotive Computing Chip market.

Automotive grade smart automotive computing chip is a type of semiconductor device that is designed to perform high-performance computing, artificial intelligence, and multimedia functions for advanced driver assistance systems (ADAS) and autonomous vehicles (AVs). These chips are built using leading chip manufacturing processes to maximize feature integration, performance, and power efficiency. They also support various wireless communication technologies, such as 5G, Wi-Fi, Bluetooth, and GNSS

navigation, to enable connected and intelligent mobility services. Some examples of automotive grade smart automotive computing chips are:

Kneron KL530: This chip supports Vision Transformers (ViT), a new class of deep learning architecture that can achieve more accurate image detection and reduced processing time than traditional Convolutional Neural Networks (CNN). It also has a 4-bit data processor that can process more frames per second and reduce data processing time by up to 66%. It can detect more apertures within any given time, so things like facial recognition can be sped up by up to half a second. It also has an image system processor that enables blind spot detection, classification, distance measuring and hazard recognition.

MediaTek Dimensity Auto: This is a range of new automotive solutions that feature scalable AI multi-processor equipped with both deep learning accelerator (MDLA) and vision processing unit (MVPU), MediaTek MiraVision smart display technology that supports multiple displays and up to 8K 120Hz screens in HDR, a dedicated DSP for microphone audio processing, full suite of entertainment streaming and decoding, fast sub-1s boot time, cutting-edge automotive communication technologies based on 3GPP open standards, including MediaTek 5G NTN, V2X, and 5G RedCap, Wi-Fi 7 equipped with MediaTek's unique hardware networking accelerator, comprehensive GNSS coverage for more accurate positioning².

Qualcomm Snapdragon Cockpit: This platform provides a comprehensive architecture for bringing connected and intelligent experiences to the modern vehicle, including in-car virtual assistance, contextual safety use cases, advanced audio, graphics, and multimedia. It also supports various connectivity solutions, such as 5G NR cellular vehicle-to-everything (C-V2X), Wi-Fi 6E/6/5/4/3/2/1 with dual-band simultaneous (DBS), Bluetooth 5.2 with aptX Adaptive audio technology.

Key Features:

The report on Automotive Grade Smart Automotive Computing Chip market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Automotive Grade Smart Automotive Computing Chip market. It may include historical data, market segmentation by Type (e.g., Radar Sensors, Vision Processor), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Automotive Grade Smart Automotive Computing Chip market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Automotive Grade Smart Automotive Computing Chip market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Automotive Grade Smart Automotive Computing Chip industry. This include advancements in Automotive Grade Smart Automotive Computing Chip technology, Automotive Grade Smart Automotive Computing Chip new entrants, Automotive Grade Smart Automotive Computing Chip new investment, and other innovations that are shaping the future of Automotive Grade Smart Automotive Computing Chip.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Automotive Grade Smart Automotive Computing Chip market. It includes factors influencing customer ' purchasing decisions, preferences for Automotive Grade Smart Automotive Computing Chip product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Automotive Grade Smart Automotive Computing Chip market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Automotive Grade Smart Automotive Computing Chip market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Automotive Grade Smart Automotive Computing Chip market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Automotive Grade Smart Automotive Computing Chip industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy

developments.

Recommendations and Opportunities: The report concludes with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Automotive Grade Smart Automotive Computing Chip market.

Market Segmentation:

Automotive Grade Smart Automotive Computing Chip market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Radar Sensors

Vision Processor

Network Processor

Others

Segmentation by application

Commercial Vehicles

Passenger Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Qualcomm

MediaTek

Kneron

Infineon

NXP Semiconductors

Renesas Electronics

Texas Instruments Incorporated

STMicroelectronics

Bosch

Continental

Xilinx

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Grade Smart Automotive Computing Chip market?

What factors are driving Automotive Grade Smart Automotive Computing Chip market

growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Grade Smart Automotive Computing Chip market opportunities vary by end market size?

How does Automotive Grade Smart Automotive Computing Chip break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Automotive Grade Smart Automotive Computing Chip Annual Sales 2018-2029

2.1.2 World Current & Future Analysis for Automotive Grade Smart Automotive Computing Chip by Geographic Region, 2018, 2022 & 2029

2.1.3 World Current & Future Analysis for Automotive Grade Smart Automotive Computing Chip by Country/Region, 2018, 2022 & 2029

2.2 Automotive Grade Smart Automotive Computing Chip Segment by Type

2.2.1 Radar Sensors

2.2.2 Vision Processor

2.2.3 Network Processor

2.2.4 Others

2.3 Automotive Grade Smart Automotive Computing Chip Sales by Type

2.3.1 Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Type (2018-2023)

2.3.2 Global Automotive Grade Smart Automotive Computing Chip Revenue and Market Share by Type (2018-2023)

2.3.3 Global Automotive Grade Smart Automotive Computing Chip Sale Price by Type (2018-2023)

2.4 Automotive Grade Smart Automotive Computing Chip Segment by Application

2.4.1 Commercial Vehicles

2.4.2 Passenger Vehicles

2.5 Automotive Grade Smart Automotive Computing Chip Sales by Application

2.5.1 Global Automotive Grade Smart Automotive Computing Chip Sale Market Share

by Application (2018-2023)

2.5.2 Global Automotive Grade Smart Automotive Computing Chip Revenue and Market Share by Application (2018-2023)

2.5.3 Global Automotive Grade Smart Automotive Computing Chip Sale Price by Application (2018-2023)

3 GLOBAL AUTOMOTIVE GRADE SMART AUTOMOTIVE COMPUTING CHIP BY COMPANY

3.1 Global Automotive Grade Smart Automotive Computing Chip Breakdown Data by Company

3.1.1 Global Automotive Grade Smart Automotive Computing Chip Annual Sales by Company (2018-2023)

3.1.2 Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Company (2018-2023)

3.2 Global Automotive Grade Smart Automotive Computing Chip Annual Revenue by Company (2018-2023)

3.2.1 Global Automotive Grade Smart Automotive Computing Chip Revenue by Company (2018-2023)

3.2.2 Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Company (2018-2023)

3.3 Global Automotive Grade Smart Automotive Computing Chip Sale Price by Company

3.4 Key Manufacturers Automotive Grade Smart Automotive Computing Chip Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Automotive Grade Smart Automotive Computing Chip Product Location Distribution

3.4.2 Players Automotive Grade Smart Automotive Computing Chip Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR AUTOMOTIVE GRADE SMART AUTOMOTIVE COMPUTING CHIP BY GEOGRAPHIC REGION

4.1 World Historic Automotive Grade Smart Automotive Computing Chip Market Size by Geographic Region (2018-2023)

- 4.1.1 Global Automotive Grade Smart Automotive Computing Chip Annual Sales by Geographic Region (2018-2023)
- 4.1.2 Global Automotive Grade Smart Automotive Computing Chip Annual Revenue by Geographic Region (2018-2023)
- 4.2 World Historic Automotive Grade Smart Automotive Computing Chip Market Size by Country/Region (2018-2023)
 - 4.2.1 Global Automotive Grade Smart Automotive Computing Chip Annual Sales by Country/Region (2018-2023)
 - 4.2.2 Global Automotive Grade Smart Automotive Computing Chip Annual Revenue by Country/Region (2018-2023)
- 4.3 Americas Automotive Grade Smart Automotive Computing Chip Sales Growth
- 4.4 APAC Automotive Grade Smart Automotive Computing Chip Sales Growth
- 4.5 Europe Automotive Grade Smart Automotive Computing Chip Sales Growth
- 4.6 Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales Growth

5 AMERICAS

- 5.1 Americas Automotive Grade Smart Automotive Computing Chip Sales by Country
 - 5.1.1 Americas Automotive Grade Smart Automotive Computing Chip Sales by Country (2018-2023)
 - 5.1.2 Americas Automotive Grade Smart Automotive Computing Chip Revenue by Country (2018-2023)
- 5.2 Americas Automotive Grade Smart Automotive Computing Chip Sales by Type
- 5.3 Americas Automotive Grade Smart Automotive Computing Chip Sales by Application
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Automotive Grade Smart Automotive Computing Chip Sales by Region
 - 6.1.1 APAC Automotive Grade Smart Automotive Computing Chip Sales by Region (2018-2023)
 - 6.1.2 APAC Automotive Grade Smart Automotive Computing Chip Revenue by Region (2018-2023)
- 6.2 APAC Automotive Grade Smart Automotive Computing Chip Sales by Type

6.3 APAC Automotive Grade Smart Automotive Computing Chip Sales by Application

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Automotive Grade Smart Automotive Computing Chip by Country

7.1.1 Europe Automotive Grade Smart Automotive Computing Chip Sales by Country (2018-2023)

7.1.2 Europe Automotive Grade Smart Automotive Computing Chip Revenue by Country (2018-2023)

7.2 Europe Automotive Grade Smart Automotive Computing Chip Sales by Type

7.3 Europe Automotive Grade Smart Automotive Computing Chip Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Automotive Grade Smart Automotive Computing Chip by Country

8.1.1 Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales by Country (2018-2023)

8.1.2 Middle East & Africa Automotive Grade Smart Automotive Computing Chip Revenue by Country (2018-2023)

8.2 Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales by Type

8.3 Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales by Application

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Automotive Grade Smart Automotive Computing Chip

10.3 Manufacturing Process Analysis of Automotive Grade Smart Automotive Computing Chip

10.4 Industry Chain Structure of Automotive Grade Smart Automotive Computing Chip

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Automotive Grade Smart Automotive Computing Chip Distributors

11.3 Automotive Grade Smart Automotive Computing Chip Customer

12 WORLD FORECAST REVIEW FOR AUTOMOTIVE GRADE SMART AUTOMOTIVE COMPUTING CHIP BY GEOGRAPHIC REGION

12.1 Global Automotive Grade Smart Automotive Computing Chip Market Size Forecast by Region

12.1.1 Global Automotive Grade Smart Automotive Computing Chip Forecast by Region (2024-2029)

12.1.2 Global Automotive Grade Smart Automotive Computing Chip Annual Revenue Forecast by Region (2024-2029)

12.2 Americas Forecast by Country

12.3 APAC Forecast by Region

12.4 Europe Forecast by Country

12.5 Middle East & Africa Forecast by Country

- 12.6 Global Automotive Grade Smart Automotive Computing Chip Forecast by Type
- 12.7 Global Automotive Grade Smart Automotive Computing Chip Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 Qualcomm

- 13.1.1 Qualcomm Company Information

- 13.1.2 Qualcomm Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

- 13.1.3 Qualcomm Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)

- 13.1.4 Qualcomm Main Business Overview

- 13.1.5 Qualcomm Latest Developments

13.2 MediaTek

- 13.2.1 MediaTek Company Information

- 13.2.2 MediaTek Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

- 13.2.3 MediaTek Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)

- 13.2.4 MediaTek Main Business Overview

- 13.2.5 MediaTek Latest Developments

13.3 Kneron

- 13.3.1 Kneron Company Information

- 13.3.2 Kneron Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

- 13.3.3 Kneron Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)

- 13.3.4 Kneron Main Business Overview

- 13.3.5 Kneron Latest Developments

13.4 Infineon

- 13.4.1 Infineon Company Information

- 13.4.2 Infineon Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

- 13.4.3 Infineon Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)

- 13.4.4 Infineon Main Business Overview

- 13.4.5 Infineon Latest Developments

13.5 NXP Semiconductors

- 13.5.1 NXP Semiconductors Company Information
- 13.5.2 NXP Semiconductors Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications
- 13.5.3 NXP Semiconductors Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.5.4 NXP Semiconductors Main Business Overview
- 13.5.5 NXP Semiconductors Latest Developments
- 13.6 Renesas Electronics
 - 13.6.1 Renesas Electronics Company Information
 - 13.6.2 Renesas Electronics Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications
 - 13.6.3 Renesas Electronics Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.6.4 Renesas Electronics Main Business Overview
 - 13.6.5 Renesas Electronics Latest Developments
- 13.7 Texas Instruments Incorporated
 - 13.7.1 Texas Instruments Incorporated Company Information
 - 13.7.2 Texas Instruments Incorporated Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications
 - 13.7.3 Texas Instruments Incorporated Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.7.4 Texas Instruments Incorporated Main Business Overview
 - 13.7.5 Texas Instruments Incorporated Latest Developments
- 13.8 STMicroelectronics
 - 13.8.1 STMicroelectronics Company Information
 - 13.8.2 STMicroelectronics Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications
 - 13.8.3 STMicroelectronics Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.8.4 STMicroelectronics Main Business Overview
 - 13.8.5 STMicroelectronics Latest Developments
- 13.9 Bosch
 - 13.9.1 Bosch Company Information
 - 13.9.2 Bosch Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications
 - 13.9.3 Bosch Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.9.4 Bosch Main Business Overview
 - 13.9.5 Bosch Latest Developments

13.10 Continental

13.10.1 Continental Company Information

13.10.2 Continental Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

13.10.3 Continental Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)

13.10.4 Continental Main Business Overview

13.10.5 Continental Latest Developments

13.11 Xilinx

13.11.1 Xilinx Company Information

13.11.2 Xilinx Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

13.11.3 Xilinx Automotive Grade Smart Automotive Computing Chip Sales, Revenue, Price and Gross Margin (2018-2023)

13.11.4 Xilinx Main Business Overview

13.11.5 Xilinx Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Automotive Grade Smart Automotive Computing Chip Annual Sales CAGR by Geographic Region (2018, 2022 & 2029) & (\$ millions)
- Table 2. Automotive Grade Smart Automotive Computing Chip Annual Sales CAGR by Country/Region (2018, 2022 & 2029) & (\$ millions)
- Table 3. Major Players of Radar Sensors
- Table 4. Major Players of Vision Processor
- Table 5. Major Players of Network Processor
- Table 6. Major Players of Others
- Table 7. Global Automotive Grade Smart Automotive Computing Chip Sales by Type (2018-2023) & (K Units)
- Table 8. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Type (2018-2023)
- Table 9. Global Automotive Grade Smart Automotive Computing Chip Revenue by Type (2018-2023) & (\$ million)
- Table 10. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Type (2018-2023)
- Table 11. Global Automotive Grade Smart Automotive Computing Chip Sale Price by Type (2018-2023) & (US\$/Unit)
- Table 12. Global Automotive Grade Smart Automotive Computing Chip Sales by Application (2018-2023) & (K Units)
- Table 13. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Application (2018-2023)
- Table 14. Global Automotive Grade Smart Automotive Computing Chip Revenue by Application (2018-2023)
- Table 15. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Application (2018-2023)
- Table 16. Global Automotive Grade Smart Automotive Computing Chip Sale Price by Application (2018-2023) & (US\$/Unit)
- Table 17. Global Automotive Grade Smart Automotive Computing Chip Sales by Company (2018-2023) & (K Units)
- Table 18. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Company (2018-2023)
- Table 19. Global Automotive Grade Smart Automotive Computing Chip Revenue by Company (2018-2023) (\$ Millions)
- Table 20. Global Automotive Grade Smart Automotive Computing Chip Revenue Market

Share by Company (2018-2023)

Table 21. Global Automotive Grade Smart Automotive Computing Chip Sale Price by Company (2018-2023) & (US\$/Unit)

Table 22. Key Manufacturers Automotive Grade Smart Automotive Computing Chip Producing Area Distribution and Sales Area

Table 23. Players Automotive Grade Smart Automotive Computing Chip Products Offered

Table 24. Automotive Grade Smart Automotive Computing Chip Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

Table 25. New Products and Potential Entrants

Table 26. Mergers & Acquisitions, Expansion

Table 27. Global Automotive Grade Smart Automotive Computing Chip Sales by Geographic Region (2018-2023) & (K Units)

Table 28. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share Geographic Region (2018-2023)

Table 29. Global Automotive Grade Smart Automotive Computing Chip Revenue by Geographic Region (2018-2023) & (\$ millions)

Table 30. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Geographic Region (2018-2023)

Table 31. Global Automotive Grade Smart Automotive Computing Chip Sales by Country/Region (2018-2023) & (K Units)

Table 32. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Country/Region (2018-2023)

Table 33. Global Automotive Grade Smart Automotive Computing Chip Revenue by Country/Region (2018-2023) & (\$ millions)

Table 34. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Country/Region (2018-2023)

Table 35. Americas Automotive Grade Smart Automotive Computing Chip Sales by Country (2018-2023) & (K Units)

Table 36. Americas Automotive Grade Smart Automotive Computing Chip Sales Market Share by Country (2018-2023)

Table 37. Americas Automotive Grade Smart Automotive Computing Chip Revenue by Country (2018-2023) & (\$ Millions)

Table 38. Americas Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Country (2018-2023)

Table 39. Americas Automotive Grade Smart Automotive Computing Chip Sales by Type (2018-2023) & (K Units)

Table 40. Americas Automotive Grade Smart Automotive Computing Chip Sales by Application (2018-2023) & (K Units)

Table 41. APAC Automotive Grade Smart Automotive Computing Chip Sales by Region (2018-2023) & (K Units)

Table 42. APAC Automotive Grade Smart Automotive Computing Chip Sales Market Share by Region (2018-2023)

Table 43. APAC Automotive Grade Smart Automotive Computing Chip Revenue by Region (2018-2023) & (\$ Millions)

Table 44. APAC Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Region (2018-2023)

Table 45. APAC Automotive Grade Smart Automotive Computing Chip Sales by Type (2018-2023) & (K Units)

Table 46. APAC Automotive Grade Smart Automotive Computing Chip Sales by Application (2018-2023) & (K Units)

Table 47. Europe Automotive Grade Smart Automotive Computing Chip Sales by Country (2018-2023) & (K Units)

Table 48. Europe Automotive Grade Smart Automotive Computing Chip Sales Market Share by Country (2018-2023)

Table 49. Europe Automotive Grade Smart Automotive Computing Chip Revenue by Country (2018-2023) & (\$ Millions)

Table 50. Europe Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Country (2018-2023)

Table 51. Europe Automotive Grade Smart Automotive Computing Chip Sales by Type (2018-2023) & (K Units)

Table 52. Europe Automotive Grade Smart Automotive Computing Chip Sales by Application (2018-2023) & (K Units)

Table 53. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales by Country (2018-2023) & (K Units)

Table 54. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales Market Share by Country (2018-2023)

Table 55. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Revenue by Country (2018-2023) & (\$ Millions)

Table 56. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Country (2018-2023)

Table 57. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales by Type (2018-2023) & (K Units)

Table 58. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales by Application (2018-2023) & (K Units)

Table 59. Key Market Drivers & Growth Opportunities of Automotive Grade Smart Automotive Computing Chip

Table 60. Key Market Challenges & Risks of Automotive Grade Smart Automotive

Computing Chip

Table 61. Key Industry Trends of Automotive Grade Smart Automotive Computing Chip

Table 62. Automotive Grade Smart Automotive Computing Chip Raw Material

Table 63. Key Suppliers of Raw Materials

Table 64. Automotive Grade Smart Automotive Computing Chip Distributors List

Table 65. Automotive Grade Smart Automotive Computing Chip Customer List

Table 66. Global Automotive Grade Smart Automotive Computing Chip Sales Forecast by Region (2024-2029) & (K Units)

Table 67. Global Automotive Grade Smart Automotive Computing Chip Revenue Forecast by Region (2024-2029) & (\$ millions)

Table 68. Americas Automotive Grade Smart Automotive Computing Chip Sales Forecast by Country (2024-2029) & (K Units)

Table 69. Americas Automotive Grade Smart Automotive Computing Chip Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 70. APAC Automotive Grade Smart Automotive Computing Chip Sales Forecast by Region (2024-2029) & (K Units)

Table 71. APAC Automotive Grade Smart Automotive Computing Chip Revenue Forecast by Region (2024-2029) & (\$ millions)

Table 72. Europe Automotive Grade Smart Automotive Computing Chip Sales Forecast by Country (2024-2029) & (K Units)

Table 73. Europe Automotive Grade Smart Automotive Computing Chip Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 74. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales Forecast by Country (2024-2029) & (K Units)

Table 75. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 76. Global Automotive Grade Smart Automotive Computing Chip Sales Forecast by Type (2024-2029) & (K Units)

Table 77. Global Automotive Grade Smart Automotive Computing Chip Revenue Forecast by Type (2024-2029) & (\$ Millions)

Table 78. Global Automotive Grade Smart Automotive Computing Chip Sales Forecast by Application (2024-2029) & (K Units)

Table 79. Global Automotive Grade Smart Automotive Computing Chip Revenue Forecast by Application (2024-2029) & (\$ Millions)

Table 80. Qualcomm Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 81. Qualcomm Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 82. Qualcomm Automotive Grade Smart Automotive Computing Chip Sales (K

Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 83. Qualcomm Main Business

Table 84. Qualcomm Latest Developments

Table 85. MediaTek Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 86. MediaTek Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 87. MediaTek Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 88. MediaTek Main Business

Table 89. MediaTek Latest Developments

Table 90. Kneron Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 91. Kneron Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 92. Kneron Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 93. Kneron Main Business

Table 94. Kneron Latest Developments

Table 95. Infineon Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 96. Infineon Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 97. Infineon Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 98. Infineon Main Business

Table 99. Infineon Latest Developments

Table 100. NXP Semiconductors Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 101. NXP Semiconductors Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 102. NXP Semiconductors Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 103. NXP Semiconductors Main Business

Table 104. NXP Semiconductors Latest Developments

Table 105. Renesas Electronics Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 106. Renesas Electronics Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 107. Renesas Electronics Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 108. Renesas Electronics Main Business

Table 109. Renesas Electronics Latest Developments

Table 110. Texas Instruments Incorporated Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 111. Texas Instruments Incorporated Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 112. Texas Instruments Incorporated Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 113. Texas Instruments Incorporated Main Business

Table 114. Texas Instruments Incorporated Latest Developments

Table 115. STMicroelectronics Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 116. STMicroelectronics Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 117. STMicroelectronics Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 118. STMicroelectronics Main Business

Table 119. STMicroelectronics Latest Developments

Table 120. Bosch Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 121. Bosch Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 122. Bosch Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 123. Bosch Main Business

Table 124. Bosch Latest Developments

Table 125. Continental Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 126. Continental Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 127. Continental Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 128. Continental Main Business

Table 129. Continental Latest Developments

Table 130. Xilinx Basic Information, Automotive Grade Smart Automotive Computing Chip Manufacturing Base, Sales Area and Its Competitors

Table 131. Xilinx Automotive Grade Smart Automotive Computing Chip Product Portfolios and Specifications

Table 132. Xilinx Automotive Grade Smart Automotive Computing Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 133. Xilinx Main Business

Table 134. Xilinx Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Automotive Grade Smart Automotive Computing Chip

Figure 2. Automotive Grade Smart Automotive Computing Chip Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Automotive Grade Smart Automotive Computing Chip Sales Growth Rate 2018-2029 (K Units)

Figure 7. Global Automotive Grade Smart Automotive Computing Chip Revenue Growth Rate 2018-2029 (\$ Millions)

Figure 8. Automotive Grade Smart Automotive Computing Chip Sales by Region (2018, 2022 & 2029) & (\$ Millions)

Figure 9. Product Picture of Radar Sensors

Figure 10. Product Picture of Vision Processor

Figure 11. Product Picture of Network Processor

Figure 12. Product Picture of Others

Figure 13. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Type in 2022

Figure 14. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Type (2018-2023)

Figure 15. Automotive Grade Smart Automotive Computing Chip Consumed in Commercial Vehicles

Figure 16. Global Automotive Grade Smart Automotive Computing Chip Market: Commercial Vehicles (2018-2023) & (K Units)

Figure 17. Automotive Grade Smart Automotive Computing Chip Consumed in Passenger Vehicles

Figure 18. Global Automotive Grade Smart Automotive Computing Chip Market: Passenger Vehicles (2018-2023) & (K Units)

Figure 19. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Application (2022)

Figure 20. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Application in 2022

Figure 21. Automotive Grade Smart Automotive Computing Chip Sales Market by Company in 2022 (K Units)

Figure 22. Global Automotive Grade Smart Automotive Computing Chip Sales Market

Share by Company in 2022

Figure 23. Automotive Grade Smart Automotive Computing Chip Revenue Market by Company in 2022 (\$ Million)

Figure 24. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Company in 2022

Figure 25. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share by Geographic Region (2018-2023)

Figure 26. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Geographic Region in 2022

Figure 27. Americas Automotive Grade Smart Automotive Computing Chip Sales 2018-2023 (K Units)

Figure 28. Americas Automotive Grade Smart Automotive Computing Chip Revenue 2018-2023 (\$ Millions)

Figure 29. APAC Automotive Grade Smart Automotive Computing Chip Sales 2018-2023 (K Units)

Figure 30. APAC Automotive Grade Smart Automotive Computing Chip Revenue 2018-2023 (\$ Millions)

Figure 31. Europe Automotive Grade Smart Automotive Computing Chip Sales 2018-2023 (K Units)

Figure 32. Europe Automotive Grade Smart Automotive Computing Chip Revenue 2018-2023 (\$ Millions)

Figure 33. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales 2018-2023 (K Units)

Figure 34. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Revenue 2018-2023 (\$ Millions)

Figure 35. Americas Automotive Grade Smart Automotive Computing Chip Sales Market Share by Country in 2022

Figure 36. Americas Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Country in 2022

Figure 37. Americas Automotive Grade Smart Automotive Computing Chip Sales Market Share by Type (2018-2023)

Figure 38. Americas Automotive Grade Smart Automotive Computing Chip Sales Market Share by Application (2018-2023)

Figure 39. United States Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 40. Canada Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 41. Mexico Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 42. Brazil Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 43. APAC Automotive Grade Smart Automotive Computing Chip Sales Market Share by Region in 2022

Figure 44. APAC Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Regions in 2022

Figure 45. APAC Automotive Grade Smart Automotive Computing Chip Sales Market Share by Type (2018-2023)

Figure 46. APAC Automotive Grade Smart Automotive Computing Chip Sales Market Share by Application (2018-2023)

Figure 47. China Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 48. Japan Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 49. South Korea Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 50. Southeast Asia Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 51. India Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 52. Australia Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 53. China Taiwan Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 54. Europe Automotive Grade Smart Automotive Computing Chip Sales Market Share by Country in 2022

Figure 55. Europe Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Country in 2022

Figure 56. Europe Automotive Grade Smart Automotive Computing Chip Sales Market Share by Type (2018-2023)

Figure 57. Europe Automotive Grade Smart Automotive Computing Chip Sales Market Share by Application (2018-2023)

Figure 58. Germany Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 59. France Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 60. UK Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 61. Italy Automotive Grade Smart Automotive Computing Chip Revenue Growth

2018-2023 (\$ Millions)

Figure 62. Russia Automotive Grade Smart Automotive Computing Chip Revenue

Growth 2018-2023 (\$ Millions)

Figure 63. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales Market Share by Country in 2022

Figure 64. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Revenue Market Share by Country in 2022

Figure 65. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales Market Share by Type (2018-2023)

Figure 66. Middle East & Africa Automotive Grade Smart Automotive Computing Chip Sales Market Share by Application (2018-2023)

Figure 67. Egypt Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 68. South Africa Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 69. Israel Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 70. Turkey Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 71. GCC Country Automotive Grade Smart Automotive Computing Chip Revenue Growth 2018-2023 (\$ Millions)

Figure 72. Manufacturing Cost Structure Analysis of Automotive Grade Smart Automotive Computing Chip in 2022

Figure 73. Manufacturing Process Analysis of Automotive Grade Smart Automotive Computing Chip

Figure 74. Industry Chain Structure of Automotive Grade Smart Automotive Computing Chip

Figure 75. Channels of Distribution

Figure 76. Global Automotive Grade Smart Automotive Computing Chip Sales Market Forecast by Region (2024-2029)

Figure 77. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share Forecast by Region (2024-2029)

Figure 78. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share Forecast by Type (2024-2029)

Figure 79. Global Automotive Grade Smart Automotive Computing Chip Revenue Market Share Forecast by Type (2024-2029)

Figure 80. Global Automotive Grade Smart Automotive Computing Chip Sales Market Share Forecast by Application (2024-2029)

Figure 81. Global Automotive Grade Smart Automotive Computing Chip Revenue

Market Share Forecast by Application (2024-2029)

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