

Global High-performance Computing Autonomous Driving SoC Market Growth 2026-2032

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Abstracts

The global High-performance Computing Autonomous Driving SoC market size is predicted to grow from US\$ 11420 million in 2025 to US\$ 36180 million in 2032; it is expected to grow at a CAGR of 18.3% from 2026 to 2032.

High-performance Computing Autonomous Driving SoC refer to high-performance computing chips designed for autonomous driving systems, which have powerful data processing capabilities and can process large amounts of data from vehicle sensors in real time, including images, radar and lidar signals, to achieve environmental perception, decision making and vehicle control functions. These chips typically integrate advanced AI algorithms and high-performance computing architectures to support complex machine learning and deep learning tasks, ensuring the safe and efficient operation of autonomous vehicles in a variety of traffic and environmental conditions.

United States market for High-performance Computing Autonomous Driving SoC is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for High-performance Computing Autonomous Driving SoC is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for High-performance Computing Autonomous Driving SoC is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key High-performance Computing Autonomous Driving SoC players cover Black Sesame Technologies, Hisilicon, Horizon, Qualcomm, NXP, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "High-performance Computing Autonomous Driving SoC Industry Forecast" looks at past sales and reviews total world High-performance Computing Autonomous Driving SoC sales in 2025, providing a comprehensive analysis by region and market sector of projected High-performance Computing Autonomous Driving SoC sales for 2026 through 2032. With High-performance Computing Autonomous Driving SoC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-performance Computing Autonomous Driving SoC industry.

This Insight Report provides a comprehensive analysis of the global High-performance Computing Autonomous Driving SoC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-performance Computing Autonomous Driving SoC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-performance Computing Autonomous Driving SoC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-performance Computing Autonomous Driving SoC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-performance Computing Autonomous Driving SoC.

This report presents a comprehensive overview, market shares, and growth opportunities of High-performance Computing Autonomous Driving SoC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

CPU+GPU+ASIC Architecture

CPU+ASIC Architecture

CPU+FPGA Architecture

Segmentation by Application:

L2+ ADAS

L3 ADAS

L4 ADAS

L5 ADAS

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 analysing the company's coverage, product portfolio, its market penetration.

Black Sesame Technologies

Hisilicon

Horizon

Qualcomm

NXP

Mobileye

NVIDIA Corporation

Continental AG

Texas Instruments

Ambarella International LP.

MediaTek Inc

Renesas

AMD

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-performance Computing Autonomous Driving SoC market?

What factors are driving High-performance Computing Autonomous Driving SoC market growth, globally and by region?

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

How do High-performance Computing Autonomous Driving SoC market opportunities vary by end market size?

How does High-performance Computing Autonomous Driving SoC break out by Type, by Application?

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 High-performance Computing Autonomous Driving SoC Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for High-performance Computing Autonomous Driving SoC by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for High-performance Computing Autonomous Driving SoC by Country/Region, 2021, 2025 & 2032

2.2 High-performance Computing Autonomous Driving SoC Segment by Type

2.2.1 CPU+GPU+ASIC Architecture

2.2.2 CPU+ASIC Architecture

2.2.3 CPU+FPGA Architecture

2.2.4 High-performance Computing Autonomous Driving SoC Sales by Type

2.2.4.1 Global High-performance Computing Autonomous Driving SoC Sales Market Share by Type (2021-2026)

2.2.4.2 Global High-performance Computing Autonomous Driving SoC Revenue and Market Share by Type (2021-2026)

2.2.4.3 Global High-performance Computing Autonomous Driving SoC Sale Price by Type (2021-2026)

2.3 High-performance Computing Autonomous Driving SoC Segment by Application

2.3.1 L2+ ADAS

2.3.2 L3 ADAS

2.3.3 L4 ADAS

2.3.4 L5 ADAS

2.3.5 High-performance Computing Autonomous Driving SoC Sales by Application

2.3.5.1 Global High-performance Computing Autonomous Driving SoC Sale Market Share by Application (2021-2026)

2.3.5.2 Global High-performance Computing Autonomous Driving SoC Revenue and Market Share by Application (2021-2026)

2.3.5.3 Global High-performance Computing Autonomous Driving SoC Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global High-performance Computing Autonomous Driving SoC Breakdown Data by Company

3.1.1 Global High-performance Computing Autonomous Driving SoC Annual Sales by Company (2021-2026)

3.1.2 Global High-performance Computing Autonomous Driving SoC Sales Market Share by Company (2021-2026)

3.2 Global High-performance Computing Autonomous Driving SoC Annual Revenue by Company (2021-2026)

3.2.1 Global High-performance Computing Autonomous Driving SoC Revenue by Company (2021-2026)

3.2.2 Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Company (2021-2026)

3.3 Global High-performance Computing Autonomous Driving SoC Sale Price by Company

3.4 Key Manufacturers High-performance Computing Autonomous Driving SoC Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers High-performance Computing Autonomous Driving SoC Product Location Distribution

3.4.2 Players High-performance Computing Autonomous Driving SoC Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HIGH-PERFORMANCE COMPUTING AUTONOMOUS DRIVING SOC BY GEOGRAPHIC REGION

4.1 World Historic High-performance Computing Autonomous Driving SoC Market Size

by Geographic Region (2021-2026)

4.1.1 Global High-performance Computing Autonomous Driving SoC Annual Sales by Geographic Region (2021-2026)

4.1.2 Global High-performance Computing Autonomous Driving SoC Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic High-performance Computing Autonomous Driving SoC Market Size by Country/Region (2021-2026)

4.2.1 Global High-performance Computing Autonomous Driving SoC Annual Sales by Country/Region (2021-2026)

4.2.2 Global High-performance Computing Autonomous Driving SoC Annual Revenue by Country/Region (2021-2026)

4.3 Americas High-performance Computing Autonomous Driving SoC Sales Growth

4.4 APAC High-performance Computing Autonomous Driving SoC Sales Growth

4.5 Europe High-performance Computing Autonomous Driving SoC Sales Growth

4.6 Middle East & Africa High-performance Computing Autonomous Driving SoC Sales Growth

5 AMERICAS

5.1 Americas High-performance Computing Autonomous Driving SoC Sales by Country

5.1.1 Americas High-performance Computing Autonomous Driving SoC Sales by Country (2021-2026)

5.1.2 Americas High-performance Computing Autonomous Driving SoC Revenue by Country (2021-2026)

5.2 Americas High-performance Computing Autonomous Driving SoC Sales by Type (2021-2026)

5.3 Americas High-performance Computing Autonomous Driving SoC Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC High-performance Computing Autonomous Driving SoC Sales by Region

6.1.1 APAC High-performance Computing Autonomous Driving SoC Sales by Region (2021-2026)

6.1.2 APAC High-performance Computing Autonomous Driving SoC Revenue by

Region (2021-2026)

6.2 APAC High-performance Computing Autonomous Driving SoC Sales by Type (2021-2026)

6.3 APAC High-performance Computing Autonomous Driving SoC Sales by Application (2021-2026)

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 High-performance Computing Autonomous Driving SoC by Country

7.1.1 Europe High-performance Computing Autonomous Driving SoC Sales by Country (2021-2026)

7.1.2 Europe High-performance Computing Autonomous Driving SoC Revenue by Country (2021-2026)

7.2 Europe High-performance Computing Autonomous Driving SoC Sales by Type (2021-2026)

7.3 Europe High-performance Computing Autonomous Driving SoC Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa High-performance Computing Autonomous Driving SoC by Country

8.1.1 Middle East & Africa High-performance Computing Autonomous Driving SoC Sales by Country (2021-2026)

8.1.2 Middle East & Africa High-performance Computing Autonomous Driving SoC Revenue by Country (2021-2026)

8.2 Middle East & Africa High-performance Computing Autonomous Driving SoC Sales

by Type (2021-2026)

8.3 Middle East & Africa High-performance Computing Autonomous Driving SoC Sales

by Application (2021-2026)

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 High-performance Computing Autonomous Driving SoC

10.3 Manufacturing Process Analysis of High-performance Computing Autonomous Driving SoC

10.4 Industry Chain Structure of High-performance Computing Autonomous Driving SoC

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 High-performance Computing Autonomous Driving SoC Distributors

11.3 High-performance Computing Autonomous Driving SoC Customer

12 WORLD FORECAST REVIEW FOR HIGH-PERFORMANCE COMPUTING AUTONOMOUS DRIVING SOC BY GEOGRAPHIC REGION

12.1 Global High-performance Computing Autonomous Driving SoC Market Size Forecast by Region

12.1.1 Global High-performance Computing Autonomous Driving SoC Forecast by

Region (2027-2032)

12.1.2 Global High-performance Computing Autonomous Driving SoC Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global High-performance Computing Autonomous Driving SoC Forecast by Type (2027-2032)

12.7 Global High-performance Computing Autonomous Driving SoC Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Black Sesame Technologies

13.1.1 Black Sesame Technologies Company Information

13.1.2 Black Sesame Technologies High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

13.1.3 Black Sesame Technologies High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Black Sesame Technologies Main Business Overview

13.1.5 Black Sesame Technologies Latest Developments

13.2 Hisilicon

13.2.1 Hisilicon Company Information

13.2.2 Hisilicon High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

13.2.3 Hisilicon High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Hisilicon Main Business Overview

13.2.5 Hisilicon Latest Developments

13.3 Horizon

13.3.1 Horizon Company Information

13.3.2 Horizon High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

13.3.3 Horizon High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Horizon Main Business Overview

13.3.5 Horizon Latest Developments

13.4 Qualcomm

- 13.4.1 Qualcomm Company Information
- 13.4.2 Qualcomm High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
- 13.4.3 Qualcomm High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Qualcomm Main Business Overview
- 13.4.5 Qualcomm Latest Developments
- 13.5 NXP
 - 13.5.1 NXP Company Information
 - 13.5.2 NXP High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
 - 13.5.3 NXP High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 NXP Main Business Overview
 - 13.5.5 NXP Latest Developments
- 13.6 Mobileye
 - 13.6.1 Mobileye Company Information
 - 13.6.2 Mobileye High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
 - 13.6.3 Mobileye High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Mobileye Main Business Overview
 - 13.6.5 Mobileye Latest Developments
- 13.7 NVIDIA Corporation
 - 13.7.1 NVIDIA Corporation Company Information
 - 13.7.2 NVIDIA Corporation High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
 - 13.7.3 NVIDIA Corporation High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 NVIDIA Corporation Main Business Overview
 - 13.7.5 NVIDIA Corporation Latest Developments
- 13.8 Continental AG
 - 13.8.1 Continental AG Company Information
 - 13.8.2 Continental AG High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
 - 13.8.3 Continental AG High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Continental AG Main Business Overview
 - 13.8.5 Continental AG Latest Developments

13.9 Texas Instruments

13.9.1 Texas Instruments Company Information

13.9.2 Texas Instruments High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

13.9.3 Texas Instruments High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Texas Instruments Main Business Overview

13.9.5 Texas Instruments Latest Developments

13.10 Ambarella International LP.

13.10.1 Ambarella International LP. Company Information

13.10.2 Ambarella International LP. High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

13.10.3 Ambarella International LP. High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Ambarella International LP. Main Business Overview

13.10.5 Ambarella International LP. Latest Developments

13.11 MediaTek Inc

13.11.1 MediaTek Inc Company Information

13.11.2 MediaTek Inc High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

13.11.3 MediaTek Inc High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 MediaTek Inc Main Business Overview

13.11.5 MediaTek Inc Latest Developments

13.12 Renesas

13.12.1 Renesas Company Information

13.12.2 Renesas High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

13.12.3 Renesas High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Renesas Main Business Overview

13.12.5 Renesas Latest Developments

13.13 AMD

13.13.1 AMD Company Information

13.13.2 AMD High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

13.13.3 AMD High-performance Computing Autonomous Driving SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 AMD Main Business Overview

13.13.5 AMD Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. High-performance Computing Autonomous Driving SoC Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. High-performance Computing Autonomous Driving SoC Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of CPU+GPU+ASIC Architecture

Table 4. Major Players of CPU+ASIC Architecture

Table 5. Major Players of CPU+FPGA Architecture

Table 6. Global High-performance Computing Autonomous Driving SoC Sales by Type (2021-2026) & (K Units)

Table 7. Global High-performance Computing Autonomous Driving SoC Sales Market Share by Type (2021-2026)

Table 8. Global High-performance Computing Autonomous Driving SoC Revenue by Type (2021-2026) & (\$ million)

Table 9. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Type (2021-2026)

Table 10. Global High-performance Computing Autonomous Driving SoC Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Global High-performance Computing Autonomous Driving SoC Sale by Application (2021-2026) & (K Units)

Table 12. Global High-performance Computing Autonomous Driving SoC Sale Market Share by Application (2021-2026)

Table 13. Global High-performance Computing Autonomous Driving SoC Revenue by Application (2021-2026) & (\$ million)

Table 14. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Application (2021-2026)

Table 15. Global High-performance Computing Autonomous Driving SoC Sale Price by Application (2021-2026) & (US\$/Unit)

Table 16. Global High-performance Computing Autonomous Driving SoC Sales by Company (2021-2026) & (K Units)

Table 17. Global High-performance Computing Autonomous Driving SoC Sales Market Share by Company (2021-2026)

Table 18. Global High-performance Computing Autonomous Driving SoC Revenue by Company (2021-2026) & (\$ millions)

Table 19. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Company (2021-2026)

Table 20. Global High-performance Computing Autonomous Driving SoC Sale Price by Company (2021-2026) & (US\$/Unit)

Table 21. Key Manufacturers High-performance Computing Autonomous Driving SoC Producing Area Distribution and Sales Area

Table 22. Players High-performance Computing Autonomous Driving SoC Products Offered

Table 23. High-performance Computing Autonomous Driving SoC Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global High-performance Computing Autonomous Driving SoC Sales by Geographic Region (2021-2026) & (K Units)

Table 27. Global High-performance Computing Autonomous Driving SoC Sales Market Share Geographic Region (2021-2026)

Table 28. Global High-performance Computing Autonomous Driving SoC Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 29. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Geographic Region (2021-2026)

Table 30. Global High-performance Computing Autonomous Driving SoC Sales by Country/Region (2021-2026) & (K Units)

Table 31. Global High-performance Computing Autonomous Driving SoC Sales Market Share by Country/Region (2021-2026)

Table 32. Global High-performance Computing Autonomous Driving SoC Revenue by Country/Region (2021-2026) & (\$ millions)

Table 33. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Country/Region (2021-2026)

Table 34. Americas High-performance Computing Autonomous Driving SoC Sales by Country (2021-2026) & (K Units)

Table 35. Americas High-performance Computing Autonomous Driving SoC Sales Market Share by Country (2021-2026)

Table 36. Americas High-performance Computing Autonomous Driving SoC Revenue by Country (2021-2026) & (\$ millions)

Table 37. Americas High-performance Computing Autonomous Driving SoC Sales by Type (2021-2026) & (K Units)

Table 38. Americas High-performance Computing Autonomous Driving SoC Sales by Application (2021-2026) & (K Units)

Table 39. APAC High-performance Computing Autonomous Driving SoC Sales by Region (2021-2026) & (K Units)

Table 40. APAC High-performance Computing Autonomous Driving SoC Sales Market

Share by Region (2021-2026)

Table 41. APAC High-performance Computing Autonomous Driving SoC Revenue by Region (2021-2026) & (\$ millions)

Table 42. APAC High-performance Computing Autonomous Driving SoC Sales by Type (2021-2026) & (K Units)

Table 43. APAC High-performance Computing Autonomous Driving SoC Sales by Application (2021-2026) & (K Units)

Table 44. Europe High-performance Computing Autonomous Driving SoC Sales by Country (2021-2026) & (K Units)

Table 45. Europe High-performance Computing Autonomous Driving SoC Revenue by Country (2021-2026) & (\$ millions)

Table 46. Europe High-performance Computing Autonomous Driving SoC Sales by Type (2021-2026) & (K Units)

Table 47. Europe High-performance Computing Autonomous Driving SoC Sales by Application (2021-2026) & (K Units)

Table 48. Middle East & Africa High-performance Computing Autonomous Driving SoC Sales by Country (2021-2026) & (K Units)

Table 49. Middle East & Africa High-performance Computing Autonomous Driving SoC Revenue Market Share by Country (2021-2026)

Table 50. Middle East & Africa High-performance Computing Autonomous Driving SoC Sales by Type (2021-2026) & (K Units)

Table 51. Middle East & Africa High-performance Computing Autonomous Driving SoC Sales by Application (2021-2026) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of High-performance Computing Autonomous Driving SoC

Table 53. Key Market Challenges & Risks of High-performance Computing Autonomous Driving SoC

Table 54. Key Industry Trends of High-performance Computing Autonomous Driving SoC

Table 55. High-performance Computing Autonomous Driving SoC Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. High-performance Computing Autonomous Driving SoC Distributors List

Table 58. High-performance Computing Autonomous Driving SoC Customer List

Table 59. Global High-performance Computing Autonomous Driving SoC Sales Forecast by Region (2027-2032) & (K Units)

Table 60. Global High-performance Computing Autonomous Driving SoC Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 61. Americas High-performance Computing Autonomous Driving SoC Sales Forecast by Country (2027-2032) & (K Units)

Table 62. Americas High-performance Computing Autonomous Driving SoC Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 63. APAC High-performance Computing Autonomous Driving SoC Sales Forecast by Region (2027-2032) & (K Units)

Table 64. APAC High-performance Computing Autonomous Driving SoC Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 65. Europe High-performance Computing Autonomous Driving SoC Sales Forecast by Country (2027-2032) & (K Units)

Table 66. Europe High-performance Computing Autonomous Driving SoC Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 67. Middle East & Africa High-performance Computing Autonomous Driving SoC Sales Forecast by Country (2027-2032) & (K Units)

Table 68. Middle East & Africa High-performance Computing Autonomous Driving SoC Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. Global High-performance Computing Autonomous Driving SoC Sales Forecast by Type (2027-2032) & (K Units)

Table 70. Global High-performance Computing Autonomous Driving SoC Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 71. Global High-performance Computing Autonomous Driving SoC Sales Forecast by Application (2027-2032) & (K Units)

Table 72. Global High-performance Computing Autonomous Driving SoC Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 73. Black Sesame Technologies Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors

Table 74. Black Sesame Technologies High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

Table 75. Black Sesame Technologies High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 76. Black Sesame Technologies Main Business

Table 77. Black Sesame Technologies Latest Developments

Table 78. Hisilicon Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors

Table 79. Hisilicon High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

Table 80. Hisilicon High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 81. Hisilicon Main Business

Table 82. Hisilicon Latest Developments

Table 83. Horizon Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors

Table 84. Horizon High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

Table 85. Horizon High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 86. Horizon Main Business

Table 87. Horizon Latest Developments

Table 88. Qualcomm Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors

Table 89. Qualcomm High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

Table 90. Qualcomm High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. Qualcomm Main Business

Table 92. Qualcomm Latest Developments

Table 93. NXP Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors

Table 94. NXP High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

Table 95. NXP High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. NXP Main Business

Table 97. NXP Latest Developments

Table 98. Mobileye Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors

Table 99. Mobileye High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

Table 100. Mobileye High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Mobileye Main Business

Table 102. Mobileye Latest Developments

Table 103. NVIDIA Corporation Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors

Table 104. NVIDIA Corporation High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

Table 105. NVIDIA Corporation High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. NVIDIA Corporation Main Business

Table 107. NVIDIA Corporation Latest Developments
Table 108. Continental AG Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors
Table 109. Continental AG High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
Table 110. Continental AG High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 111. Continental AG Main Business
Table 112. Continental AG Latest Developments
Table 113. Texas Instruments Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors
Table 114. Texas Instruments High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
Table 115. Texas Instruments High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 116. Texas Instruments Main Business
Table 117. Texas Instruments Latest Developments
Table 118. Ambarella International LP. Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors
Table 119. Ambarella International LP. High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
Table 120. Ambarella International LP. High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 121. Ambarella International LP. Main Business
Table 122. Ambarella International LP. Latest Developments
Table 123. MediaTek Inc Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors
Table 124. MediaTek Inc High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
Table 125. MediaTek Inc High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 126. MediaTek Inc Main Business
Table 127. MediaTek Inc Latest Developments
Table 128. Renesas Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors
Table 129. Renesas High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications
Table 130. Renesas High-performance Computing Autonomous Driving SoC Sales (K

Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 131. Renesas Main Business

Table 132. Renesas Latest Developments

Table 133. AMD Basic Information, High-performance Computing Autonomous Driving SoC Manufacturing Base, Sales Area and Its Competitors

Table 134. AMD High-performance Computing Autonomous Driving SoC Product Portfolios and Specifications

Table 135. AMD High-performance Computing Autonomous Driving SoC Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 136. AMD Main Business

Table 137. AMD Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of High-performance Computing Autonomous Driving SoC
- Figure 2. High-performance Computing Autonomous Driving SoC Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High-performance Computing Autonomous Driving SoC Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global High-performance Computing Autonomous Driving SoC Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. High-performance Computing Autonomous Driving SoC Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. High-performance Computing Autonomous Driving SoC Sales Market Share by Country/Region (2025)
- Figure 10. High-performance Computing Autonomous Driving SoC Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of CPU+GPU+ASIC Architecture
- Figure 12. Product Picture of CPU+ASIC Architecture
- Figure 13. Product Picture of CPU+FPGA Architecture
- Figure 14. Global High-performance Computing Autonomous Driving SoC Sales Market Share by Type in 2026
- Figure 15. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Type (2021-2026)
- Figure 16. High-performance Computing Autonomous Driving SoC Consumed in L2+ ADAS
- Figure 17. Global High-performance Computing Autonomous Driving SoC Market: L2+ ADAS (2021-2026) & (K Units)
- Figure 18. High-performance Computing Autonomous Driving SoC Consumed in L3 ADAS
- Figure 19. Global High-performance Computing Autonomous Driving SoC Market: L3 ADAS (2021-2026) & (K Units)
- Figure 20. High-performance Computing Autonomous Driving SoC Consumed in L4 ADAS
- Figure 21. Global High-performance Computing Autonomous Driving SoC Market: L4 ADAS (2021-2026) & (K Units)

Figure 22. High-performance Computing Autonomous Driving SoC Consumed in L5 ADAS

Figure 23. Global High-performance Computing Autonomous Driving SoC Market: L5 ADAS (2021-2026) & (K Units)

Figure 24. Global High-performance Computing Autonomous Driving SoC Sale Market Share by Application (2025)

Figure 25. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Application in 2026

Figure 26. High-performance Computing Autonomous Driving SoC Sales by Company in 2026 (K Units)

Figure 27. Global High-performance Computing Autonomous Driving SoC Sales Market Share by Company in 2026

Figure 28. High-performance Computing Autonomous Driving SoC Revenue by Company in 2026 (\$ millions)

Figure 29. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Company in 2026

Figure 30. Global High-performance Computing Autonomous Driving SoC Sales Market Share by Geographic Region (2021-2026)

Figure 31. Global High-performance Computing Autonomous Driving SoC Revenue Market Share by Geographic Region in 2026

Figure 32. Americas High-performance Computing Autonomous Driving SoC Sales 2021-2026 (K Units)

Figure 33. Americas High-performance Computing Autonomous Driving SoC Revenue 2021-2026 (\$ millions)

Figure 34. APAC High-performance Computing Autonomous Driving SoC Sales 2021-2026 (K Units)

Figure 35. APAC High-performance Computing Autonomous Driving SoC Revenue 2021-2026 (\$ millions)

Figure 36. Europe High-performance Computing Autonomous Driving SoC Sales 2021-2026 (K Units)

Figure 37. Europe High-performance Computing Autonomous Driving SoC Revenue 2021-2026 (\$ millions)

Figure 38. Middle East & Africa High-performance Computing Autonomous Driving SoC Sales 2021-2026 (K Units)

Figure 39. Middle East & Africa High-performance Computing Autonomous Driving SoC Revenue 2021-2026 (\$ millions)

Figure 40. Americas High-performance Computing Autonomous Driving SoC Sales Market Share by Country in 2026

Figure 41. Americas High-performance Computing Autonomous Driving SoC Revenue

Market Share by Country (2021-2026)

Figure 42. Americas High-performance Computing Autonomous Driving SoC Sales

Market Share by Type (2021-2026)

Figure 43. Americas High-performance Computing Autonomous Driving SoC Sales

Market Share by Application (2021-2026)

Figure 44. United States High-performance Computing Autonomous Driving SoC
Revenue Growth 2021-2026 (\$ millions)

Figure 45. Canada High-performance Computing Autonomous Driving SoC Revenue
Growth 2021-2026 (\$ millions)

Figure 46. Mexico High-performance Computing Autonomous Driving SoC Revenue
Growth 2021-2026 (\$ millions)

Figure 47. Brazil High-performance Computing Autonomous Driving SoC Revenue
Growth 2021-2026 (\$ millions)

Figure 48. APAC High-performance Computing Autonomous Driving SoC Sales Market
Share by Region in 2026

Figure 49. APAC High-performance Computing Autonomous Driving SoC Revenue
Market Share by Region (2021-2026)

Figure 50. APAC High-performance Computing Autonomous Driving SoC Sales Market
Share by Type (2021-2026)

Figure 51. APAC High-performance Computing Autonomous Driving SoC Sales Market
Share by Application (2021-2026)

Figure 52. China High-performance Computing Autonomous Driving SoC Revenue
Growth 2021-2026 (\$ millions)

Figure 53. Japan High-performance Computing Autonomous Driving SoC Revenue
Growth 2021-2026 (\$ millions)

Figure 54. South Korea High-performance Computing Autonomous Driving SoC
Revenue Growth 2021-2026 (\$ millions)

Figure 55. Southeast Asia High-performance Computing Autonomous Driving SoC
Revenue Growth 2021-2026 (\$ millions)

Figure 56. India High-performance Computing Autonomous Driving SoC Revenue
Growth 2021-2026 (\$ millions)

Figure 57. Australia High-performance Computing Autonomous Driving SoC Revenue
Growth 2021-2026 (\$ millions)

Figure 58. China Taiwan High-performance Computing Autonomous Driving SoC
Revenue Growth 2021-2026 (\$ millions)

Figure 59. Europe High-performance Computing Autonomous Driving SoC Sales
Market Share by Country in 2026

Figure 60. Europe High-performance Computing Autonomous Driving SoC Revenue
Market Share by Country (2021-2026)

Figure 61. Europe High-performance Computing Autonomous Driving SoC Sales Market Share by Type (2021-2026)

Figure 62. Europe High-performance Computing Autonomous Driving SoC Sales Market Share by Application (2021-2026)

Figure 63. Germany High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 64. France High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 65. UK High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 66. Italy High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 67. Russia High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 68. Middle East & Africa High-performance Computing Autonomous Driving SoC Sales Market Share by Country (2021-2026)

Figure 69. Middle East & Africa High-performance Computing Autonomous Driving SoC Sales Market Share by Type (2021-2026)

Figure 70. Middle East & Africa High-performance Computing Autonomous Driving SoC Sales Market Share by Application (2021-2026)

Figure 71. Egypt High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 72. South Africa High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 73. Israel High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 74. Turkey High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 75. GCC Countries High-performance Computing Autonomous Driving SoC Revenue Growth 2021-2026 (\$ millions)

Figure 76. Manufacturing Cost Structure Analysis of High-performance Computing Autonomous Driving SoC in 2026

Figure 77. Manufacturing Process Analysis of High-performance Computing Autonomous Driving SoC

Figure 78. Industry Chain Structure of High-performance Computing Autonomous Driving SoC

Figure 79. Channels of Distribution

Figure 80. Global High-performance Computing Autonomous Driving SoC Sales Market Forecast by Region (2027-2032)

Figure 81. Global High-performance Computing Autonomous Driving SoC Revenue Market Share Forecast by Region (2027-2032)

Figure 82. Global High-performance Computing Autonomous Driving SoC Sales Market Share Forecast by Type (2027-2032)

Figure 83. Global High-performance Computing Autonomous Driving SoC Revenue Market Share Forecast by Type (2027-2032)

Figure 84. Global High-performance Computing Autonomous Driving SoC Sales Market Share Forecast by Application (2027-2032)

Figure 85. Global High-performance Computing Autonomous Driving SoC Revenue Market Share Forecast by Application (2027-2032)

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