

Global AI SoC Processors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global AI SoC Processors market size was valued at US\$ 2233 million in 2024 and is forecast to a readjusted size of USD 9384 million by 2031 with a CAGR of 19.8% during review period.

AI SoC Processors, or Artificial Intelligence System on Chip Processors, are integrated circuits designed specifically to handle artificial intelligence (AI) tasks within a single chip. These processors combine high-performance processor cores, AI accelerators, memory controllers, peripheral interfaces, and communication interfaces into a single system-on-chip (SoC) solution. They are optimized for energy efficiency and capable of making autonomous decisions based on data collected from vision and audio sensing. AI SoC processors enable real-time data processing, analysis, and decision-making at the edge of the network, where data is generated.

This report is a detailed and comprehensive analysis for global AI SoC Processors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI SoC Processors market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global AI SoC Processors market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global AI SoC Processors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global AI SoC Processors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI SoC Processors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI SoC Processors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kneron, Qualcomm, Hisilicon, Hailo, Synaptics, Intel, OCE Technology, Ambarella, Rockchip Electronics, Aispeech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

AI SoC Processors market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

General-Purpose AI SoC Processors

Customized AI SoC Processors

Market segment by Application

Smart Security

Autonomous Driving

Commercial Robots

Others

Major players covered

Kneron

Qualcomm

Hisilicon

Hailo

Synaptics

Intel

OCE Technology

Ambarella

Rockchip Electronics

Aispeech

Eeasy Tech

SENSLAB

Shanghai Fullhan Microelectronics

Shanghai Artosyn

Rebellions Inc

SEMIFIVE

MediaTek

Samsung

NVIDIA

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AI SoC Processors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI SoC Processors, with price, sales quantity, revenue, and global market share of AI SoC Processors from 2020 to 2025.

Chapter 3, the AI SoC Processors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI SoC Processors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020

to 2025.and AI SoC Processors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI SoC Processors.

Chapter 14 and 15, to describe AI SoC Processors sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global AI SoC Processors Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 General-Purpose AI SoC Processors

1.3.3 Customized AI SoC Processors

1.4 Market Analysis by Application

1.4.1 Overview: Global AI SoC Processors Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Smart Security

1.4.3 Autonomous Driving

1.4.4 Commercial Robots

1.4.5 Others

1.5 Global AI SoC Processors Market Size & Forecast

1.5.1 Global AI SoC Processors Consumption Value (2020 & 2024 & 2031)

1.5.2 Global AI SoC Processors Sales Quantity (2020-2031)

1.5.3 Global AI SoC Processors Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Kneron

2.1.1 Kneron Details

2.1.2 Kneron Major Business

2.1.3 Kneron AI SoC Processors Product and Services

2.1.4 Kneron AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Kneron Recent Developments/Updates

2.2 Qualcomm

2.2.1 Qualcomm Details

2.2.2 Qualcomm Major Business

2.2.3 Qualcomm AI SoC Processors Product and Services

2.2.4 Qualcomm AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Qualcomm Recent Developments/Updates

2.3 Hisilicon

2.3.1 Hisilicon Details

2.3.2 Hisilicon Major Business

2.3.3 Hisilicon AI SoC Processors Product and Services

2.3.4 Hisilicon AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Hisilicon Recent Developments/Updates

2.4 Hailo

2.4.1 Hailo Details

2.4.2 Hailo Major Business

2.4.3 Hailo AI SoC Processors Product and Services

2.4.4 Hailo AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Hailo Recent Developments/Updates

2.5 Synaptics

2.5.1 Synaptics Details

2.5.2 Synaptics Major Business

2.5.3 Synaptics AI SoC Processors Product and Services

2.5.4 Synaptics AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Synaptics Recent Developments/Updates

2.6 Intel

2.6.1 Intel Details

2.6.2 Intel Major Business

2.6.3 Intel AI SoC Processors Product and Services

2.6.4 Intel AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Intel Recent Developments/Updates

2.7 OCE Technology

2.7.1 OCE Technology Details

2.7.2 OCE Technology Major Business

2.7.3 OCE Technology AI SoC Processors Product and Services

2.7.4 OCE Technology AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 OCE Technology Recent Developments/Updates

2.8 Ambarella

2.8.1 Ambarella Details

2.8.2 Ambarella Major Business

2.8.3 Ambarella AI SoC Processors Product and Services

2.8.4 Ambarella AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Ambarella Recent Developments/Updates

2.9 Rockchip Electronics

2.9.1 Rockchip Electronics Details

2.9.2 Rockchip Electronics Major Business

2.9.3 Rockchip Electronics AI SoC Processors Product and Services

2.9.4 Rockchip Electronics AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 Rockchip Electronics Recent Developments/Updates

2.10 Aispeech

2.10.1 Aispeech Details

2.10.2 Aispeech Major Business

2.10.3 Aispeech AI SoC Processors Product and Services

2.10.4 Aispeech AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Aispeech Recent Developments/Updates

2.11 Eeasy Tech

2.11.1 Eeasy Tech Details

2.11.2 Eeasy Tech Major Business

2.11.3 Eeasy Tech AI SoC Processors Product and Services

2.11.4 Eeasy Tech AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 Eeasy Tech Recent Developments/Updates

2.12 SENSLAB

2.12.1 SENSLAB Details

2.12.2 SENSLAB Major Business

2.12.3 SENSLAB AI SoC Processors Product and Services

2.12.4 SENSLAB AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.12.5 SENSLAB Recent Developments/Updates

2.13 Shanghai Fullhan Microelectronics

2.13.1 Shanghai Fullhan Microelectronics Details

2.13.2 Shanghai Fullhan Microelectronics Major Business

2.13.3 Shanghai Fullhan Microelectronics AI SoC Processors Product and Services

2.13.4 Shanghai Fullhan Microelectronics AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 Shanghai Fullhan Microelectronics Recent Developments/Updates

2.14 Shanghai Artosyn

- 2.14.1 Shanghai Artosyn Details
- 2.14.2 Shanghai Artosyn Major Business
- 2.14.3 Shanghai Artosyn AI SoC Processors Product and Services
- 2.14.4 Shanghai Artosyn AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.14.5 Shanghai Artosyn Recent Developments/Updates
- 2.15 Rebellions Inc
 - 2.15.1 Rebellions Inc Details
 - 2.15.2 Rebellions Inc Major Business
 - 2.15.3 Rebellions Inc AI SoC Processors Product and Services
 - 2.15.4 Rebellions Inc AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.15.5 Rebellions Inc Recent Developments/Updates
- 2.16 SEMIFIVE
 - 2.16.1 SEMIFIVE Details
 - 2.16.2 SEMIFIVE Major Business
 - 2.16.3 SEMIFIVE AI SoC Processors Product and Services
 - 2.16.4 SEMIFIVE AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.16.5 SEMIFIVE Recent Developments/Updates
- 2.17 MediaTek
 - 2.17.1 MediaTek Details
 - 2.17.2 MediaTek Major Business
 - 2.17.3 MediaTek AI SoC Processors Product and Services
 - 2.17.4 MediaTek AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.17.5 MediaTek Recent Developments/Updates
- 2.18 Samsung
 - 2.18.1 Samsung Details
 - 2.18.2 Samsung Major Business
 - 2.18.3 Samsung AI SoC Processors Product and Services
 - 2.18.4 Samsung AI SoC Processors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.18.5 Samsung Recent Developments/Updates
- 2.19 NVIDIA
 - 2.19.1 NVIDIA Details
 - 2.19.2 NVIDIA Major Business
 - 2.19.3 NVIDIA AI SoC Processors Product and Services
 - 2.19.4 NVIDIA AI SoC Processors Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2020-2025)

2.19.5 NVIDIA Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AI SOC PROCESSORS BY MANUFACTURER

3.1 Global AI SoC Processors Sales Quantity by Manufacturer (2020-2025)

3.2 Global AI SoC Processors Revenue by Manufacturer (2020-2025)

3.3 Global AI SoC Processors Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of AI SoC Processors by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 AI SoC Processors Manufacturer Market Share in 2024

3.4.3 Top 6 AI SoC Processors Manufacturer Market Share in 2024

3.5 AI SoC Processors Market: Overall Company Footprint Analysis

3.5.1 AI SoC Processors Market: Region Footprint

3.5.2 AI SoC Processors Market: Company Product Type Footprint

3.5.3 AI SoC Processors Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global AI SoC Processors Market Size by Region

4.1.1 Global AI SoC Processors Sales Quantity by Region (2020-2031)

4.1.2 Global AI SoC Processors Consumption Value by Region (2020-2031)

4.1.3 Global AI SoC Processors Average Price by Region (2020-2031)

4.2 North America AI SoC Processors Consumption Value (2020-2031)

4.3 Europe AI SoC Processors Consumption Value (2020-2031)

4.4 Asia-Pacific AI SoC Processors Consumption Value (2020-2031)

4.5 South America AI SoC Processors Consumption Value (2020-2031)

4.6 Middle East & Africa AI SoC Processors Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global AI SoC Processors Sales Quantity by Type (2020-2031)

5.2 Global AI SoC Processors Consumption Value by Type (2020-2031)

5.3 Global AI SoC Processors Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global AI SoC Processors Sales Quantity by Application (2020-2031)
- 6.2 Global AI SoC Processors Consumption Value by Application (2020-2031)
- 6.3 Global AI SoC Processors Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America AI SoC Processors Sales Quantity by Type (2020-2031)
- 7.2 North America AI SoC Processors Sales Quantity by Application (2020-2031)
- 7.3 North America AI SoC Processors Market Size by Country
 - 7.3.1 North America AI SoC Processors Sales Quantity by Country (2020-2031)
 - 7.3.2 North America AI SoC Processors Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe AI SoC Processors Sales Quantity by Type (2020-2031)
- 8.2 Europe AI SoC Processors Sales Quantity by Application (2020-2031)
- 8.3 Europe AI SoC Processors Market Size by Country
 - 8.3.1 Europe AI SoC Processors Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe AI SoC Processors Consumption Value by Country (2020-2031)
 - 8.3.3 Germany Market Size and Forecast (2020-2031)
 - 8.3.4 France Market Size and Forecast (2020-2031)
 - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
 - 8.3.6 Russia Market Size and Forecast (2020-2031)
 - 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific AI SoC Processors Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific AI SoC Processors Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific AI SoC Processors Market Size by Region
 - 9.3.1 Asia-Pacific AI SoC Processors Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific AI SoC Processors Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)

- 9.3.6 India Market Size and Forecast (2020-2031)
- 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
- 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America AI SoC Processors Sales Quantity by Type (2020-2031)
- 10.2 South America AI SoC Processors Sales Quantity by Application (2020-2031)
- 10.3 South America AI SoC Processors Market Size by Country
 - 10.3.1 South America AI SoC Processors Sales Quantity by Country (2020-2031)
 - 10.3.2 South America AI SoC Processors Consumption Value by Country (2020-2031)
 - 10.3.3 Brazil Market Size and Forecast (2020-2031)
 - 10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa AI SoC Processors Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa AI SoC Processors Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa AI SoC Processors Market Size by Country
 - 11.3.1 Middle East & Africa AI SoC Processors Sales Quantity by Country (2020-2031)
 - 11.3.2 Middle East & Africa AI SoC Processors Consumption Value by Country (2020-2031)
 - 11.3.3 Turkey Market Size and Forecast (2020-2031)
 - 11.3.4 Egypt Market Size and Forecast (2020-2031)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
 - 11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 AI SoC Processors Market Drivers
- 12.2 AI SoC Processors Market Restraints
- 12.3 AI SoC Processors Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of AI SoC Processors and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of AI SoC Processors
- 13.3 AI SoC Processors Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 AI SoC Processors Typical Distributors
- 14.3 AI SoC Processors Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Figures

LIST OF FIGURES

Table 1. Global AI SoC Processors Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global AI SoC Processors Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Kneron Basic Information, Manufacturing Base and Competitors

Table 4. Kneron Major Business

Table 5. Kneron AI SoC Processors Product and Services

Table 6. Kneron AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Kneron Recent Developments/Updates

Table 8. Qualcomm Basic Information, Manufacturing Base and Competitors

Table 9. Qualcomm Major Business

Table 10. Qualcomm AI SoC Processors Product and Services

Table 11. Qualcomm AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Qualcomm Recent Developments/Updates

Table 13. Hisilicon Basic Information, Manufacturing Base and Competitors

Table 14. Hisilicon Major Business

Table 15. Hisilicon AI SoC Processors Product and Services

Table 16. Hisilicon AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Hisilicon Recent Developments/Updates

Table 18. Hailo Basic Information, Manufacturing Base and Competitors

Table 19. Hailo Major Business

Table 20. Hailo AI SoC Processors Product and Services

Table 21. Hailo AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Hailo Recent Developments/Updates

Table 23. Synaptics Basic Information, Manufacturing Base and Competitors

Table 24. Synaptics Major Business

Table 25. Synaptics AI SoC Processors Product and Services

Table 26. Synaptics AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Synaptics Recent Developments/Updates

Table 28. Intel Basic Information, Manufacturing Base and Competitors

Table 29. Intel Major Business
Table 30. Intel AI SoC Processors Product and Services
Table 31. Intel AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 32. Intel Recent Developments/Updates
Table 33. OCE Technology Basic Information, Manufacturing Base and Competitors
Table 34. OCE Technology Major Business
Table 35. OCE Technology AI SoC Processors Product and Services
Table 36. OCE Technology AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 37. OCE Technology Recent Developments/Updates
Table 38. Ambarella Basic Information, Manufacturing Base and Competitors
Table 39. Ambarella Major Business
Table 40. Ambarella AI SoC Processors Product and Services
Table 41. Ambarella AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 42. Ambarella Recent Developments/Updates
Table 43. Rockchip Electronics Basic Information, Manufacturing Base and Competitors
Table 44. Rockchip Electronics Major Business
Table 45. Rockchip Electronics AI SoC Processors Product and Services
Table 46. Rockchip Electronics AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 47. Rockchip Electronics Recent Developments/Updates
Table 48. Aispeech Basic Information, Manufacturing Base and Competitors
Table 49. Aispeech Major Business
Table 50. Aispeech AI SoC Processors Product and Services
Table 51. Aispeech AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 52. Aispeech Recent Developments/Updates
Table 53. Eeasy Tech Basic Information, Manufacturing Base and Competitors
Table 54. Eeasy Tech Major Business
Table 55. Eeasy Tech AI SoC Processors Product and Services
Table 56. Eeasy Tech AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 57. Eeasy Tech Recent Developments/Updates
Table 58. SENSLAB Basic Information, Manufacturing Base and Competitors
Table 59. SENSLAB Major Business
Table 60. SENSLAB AI SoC Processors Product and Services
Table 61. SENSLAB AI SoC Processors Sales Quantity (K Pcs), Average Price

(US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. SENSLAB Recent Developments/Updates

Table 63. Shanghai Fullhan Microelectronics Basic Information, Manufacturing Base and Competitors

Table 64. Shanghai Fullhan Microelectronics Major Business

Table 65. Shanghai Fullhan Microelectronics AI SoC Processors Product and Services

Table 66. Shanghai Fullhan Microelectronics AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Shanghai Fullhan Microelectronics Recent Developments/Updates

Table 68. Shanghai Artosyn Basic Information, Manufacturing Base and Competitors

Table 69. Shanghai Artosyn Major Business

Table 70. Shanghai Artosyn AI SoC Processors Product and Services

Table 71. Shanghai Artosyn AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Shanghai Artosyn Recent Developments/Updates

Table 73. Rebellions Inc Basic Information, Manufacturing Base and Competitors

Table 74. Rebellions Inc Major Business

Table 75. Rebellions Inc AI SoC Processors Product and Services

Table 76. Rebellions Inc AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Rebellions Inc Recent Developments/Updates

Table 78. SEMIFIVE Basic Information, Manufacturing Base and Competitors

Table 79. SEMIFIVE Major Business

Table 80. SEMIFIVE AI SoC Processors Product and Services

Table 81. SEMIFIVE AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. SEMIFIVE Recent Developments/Updates

Table 83. MediaTek Basic Information, Manufacturing Base and Competitors

Table 84. MediaTek Major Business

Table 85. MediaTek AI SoC Processors Product and Services

Table 86. MediaTek AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 87. MediaTek Recent Developments/Updates

Table 88. Samsung Basic Information, Manufacturing Base and Competitors

Table 89. Samsung Major Business

Table 90. Samsung AI SoC Processors Product and Services

Table 91. Samsung AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 92. Samsung Recent Developments/Updates

Table 93. NVIDIA Basic Information, Manufacturing Base and Competitors

Table 94. NVIDIA Major Business

Table 95. NVIDIA AI SoC Processors Product and Services

Table 96. NVIDIA AI SoC Processors Sales Quantity (K Pcs), Average Price (US\$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 97. NVIDIA Recent Developments/Updates

Table 98. Global AI SoC Processors Sales Quantity by Manufacturer (2020-2025) & (K Pcs)

Table 99. Global AI SoC Processors Revenue by Manufacturer (2020-2025) & (USD Million)

Table 100. Global AI SoC Processors Average Price by Manufacturer (2020-2025) & (US\$/Pcs)

Table 101. Market Position of Manufacturers in AI SoC Processors, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 102. Head Office and AI SoC Processors Production Site of Key Manufacturer

Table 103. AI SoC Processors Market: Company Product Type Footprint

Table 104. AI SoC Processors Market: Company Product Application Footprint

Table 105. AI SoC Processors New Market Entrants and Barriers to Market Entry

Table 106. AI SoC Processors Mergers, Acquisition, Agreements, and Collaborations

Table 107. Global AI SoC Processors Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 108. Global AI SoC Processors Sales Quantity by Region (2020-2025) & (K Pcs)

Table 109. Global AI SoC Processors Sales Quantity by Region (2026-2031) & (K Pcs)

Table 110. Global AI SoC Processors Consumption Value by Region (2020-2025) & (USD Million)

Table 111. Global AI SoC Processors Consumption Value by Region (2026-2031) & (USD Million)

Table 112. Global AI SoC Processors Average Price by Region (2020-2025) & (US\$/Pcs)

Table 113. Global AI SoC Processors Average Price by Region (2026-2031) & (US\$/Pcs)

Table 114. Global AI SoC Processors Sales Quantity by Type (2020-2025) & (K Pcs)

Table 115. Global AI SoC Processors Sales Quantity by Type (2026-2031) & (K Pcs)

Table 116. Global AI SoC Processors Consumption Value by Type (2020-2025) & (USD Million)

Table 117. Global AI SoC Processors Consumption Value by Type (2026-2031) & (USD Million)

Table 118. Global AI SoC Processors Average Price by Type (2020-2025) & (US\$/Pcs)

Table 119. Global AI SoC Processors Average Price by Type (2026-2031) & (US\$/Pcs)

Table 120. Global AI SoC Processors Sales Quantity by Application (2020-2025) & (K Pcs)

Table 121. Global AI SoC Processors Sales Quantity by Application (2026-2031) & (K Pcs)

Table 122. Global AI SoC Processors Consumption Value by Application (2020-2025) & (USD Million)

Table 123. Global AI SoC Processors Consumption Value by Application (2026-2031) & (USD Million)

Table 124. Global AI SoC Processors Average Price by Application (2020-2025) & (US\$/Pcs)

Table 125. Global AI SoC Processors Average Price by Application (2026-2031) & (US\$/Pcs)

Table 126. North America AI SoC Processors Sales Quantity by Type (2020-2025) & (K Pcs)

Table 127. North America AI SoC Processors Sales Quantity by Type (2026-2031) & (K Pcs)

Table 128. North America AI SoC Processors Sales Quantity by Application (2020-2025) & (K Pcs)

Table 129. North America AI SoC Processors Sales Quantity by Application (2026-2031) & (K Pcs)

Table 130. North America AI SoC Processors Sales Quantity by Country (2020-2025) & (K Pcs)

Table 131. North America AI SoC Processors Sales Quantity by Country (2026-2031) & (K Pcs)

Table 132. North America AI SoC Processors Consumption Value by Country (2020-2025) & (USD Million)

Table 133. North America AI SoC Processors Consumption Value by Country (2026-2031) & (USD Million)

Table 134. Europe AI SoC Processors Sales Quantity by Type (2020-2025) & (K Pcs)

Table 135. Europe AI SoC Processors Sales Quantity by Type (2026-2031) & (K Pcs)

Table 136. Europe AI SoC Processors Sales Quantity by Application (2020-2025) & (K Pcs)

Table 137. Europe AI SoC Processors Sales Quantity by Application (2026-2031) & (K Pcs)

Table 138. Europe AI SoC Processors Sales Quantity by Country (2020-2025) & (K Pcs)

Table 139. Europe AI SoC Processors Sales Quantity by Country (2026-2031) & (K Pcs)

Table 140. Europe AI SoC Processors Consumption Value by Country (2020-2025) & (USD Million)

Table 141. Europe AI SoC Processors Consumption Value by Country (2026-2031) & (USD Million)

Table 142. Asia-Pacific AI SoC Processors Sales Quantity by Type (2020-2025) & (K Pcs)

Table 143. Asia-Pacific AI SoC Processors Sales Quantity by Type (2026-2031) & (K Pcs)

Table 144. Asia-Pacific AI SoC Processors Sales Quantity by Application (2020-2025) & (K Pcs)

Table 145. Asia-Pacific AI SoC Processors Sales Quantity by Application (2026-2031) & (K Pcs)

Table 146. Asia-Pacific AI SoC Processors Sales Quantity by Region (2020-2025) & (K Pcs)

Table 147. Asia-Pacific AI SoC Processors Sales Quantity by Region (2026-2031) & (K Pcs)

Table 148. Asia-Pacific AI SoC Processors Consumption Value by Region (2020-2025) & (USD Million)

Table 149. Asia-Pacific AI SoC Processors Consumption Value by Region (2026-2031) & (USD Million)

Table 150. South America AI SoC Processors Sales Quantity by Type (2020-2025) & (K Pcs)

Table 151. South America AI SoC Processors Sales Quantity by Type (2026-2031) & (K Pcs)

Table 152. South America AI SoC Processors Sales Quantity by Application (2020-2025) & (K Pcs)

Table 153. South America AI SoC Processors Sales Quantity by Application (2026-2031) & (K Pcs)

Table 154. South America AI SoC Processors Sales Quantity by Country (2020-2025) & (K Pcs)

Table 155. South America AI SoC Processors Sales Quantity by Country (2026-2031) & (K Pcs)

Table 156. South America AI SoC Processors Consumption Value by Country (2020-2025) & (USD Million)

Table 157. South America AI SoC Processors Consumption Value by Country (2026-2031) & (USD Million)

Table 158. Middle East & Africa AI SoC Processors Sales Quantity by Type (2020-2025) & (K Pcs)

Table 159. Middle East & Africa AI SoC Processors Sales Quantity by Type

(2026-2031) & (K Pcs)

Table 160. Middle East & Africa AI SoC Processors Sales Quantity by Application
(2020-2025) & (K Pcs)

Table 161. Middle East & Africa AI SoC Processors Sales Quantity by Application
(2026-2031) & (K Pcs)

Table 162. Middle East & Africa AI SoC Processors Sales Quantity by Country
(2020-2025) & (K Pcs)

Table 163. Middle East & Africa AI SoC Processors Sales Quantity by Country
(2026-2031) & (K Pcs)

Table 164. Middle East & Africa AI SoC Processors Consumption Value by Country
(2020-2025) & (USD Million)

Table 165. Middle East & Africa AI SoC Processors Consumption Value by Country
(2026-2031) & (USD Million)

Table 166. AI SoC Processors Raw Material

Table 167. Key Manufacturers of AI SoC Processors Raw Materials

Table 168. AI SoC Processors Typical Distributors

Table 169. AI SoC Processors Typical Customers

LIST OF FIGURES

Figure 1. AI SoC Processors Picture

Figure 2. Global AI SoC Processors Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global AI SoC Processors Revenue Market Share by Type in 2024

Figure 4. General-Purpose AI SoC Processors Examples

Figure 5. Customized AI SoC Processors Examples

Figure 6. Global AI SoC Processors Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global AI SoC Processors Revenue Market Share by Application in 2024

Figure 8. Smart Security Examples

Figure 9. Autonomous Driving Examples

Figure 10. Commercial Robots Examples

Figure 11. Others Examples

Figure 12. Global AI SoC Processors Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 13. Global AI SoC Processors Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 14. Global AI SoC Processors Sales Quantity (2020-2031) & (K Pcs)

Figure 15. Global AI SoC Processors Price (2020-2031) & (US\$/Pcs)

Figure 16. Global AI SoC Processors Sales Quantity Market Share by Manufacturer in 2024

Figure 17. Global AI SoC Processors Revenue Market Share by Manufacturer in 2024

Figure 18. Producer Shipments of AI SoC Processors by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 19. Top 3 AI SoC Processors Manufacturer (Revenue) Market Share in 2024

Figure 20. Top 6 AI SoC Processors Manufacturer (Revenue) Market Share in 2024

Figure 21. Global AI SoC Processors Sales Quantity Market Share by Region (2020-2031)

Figure 22. Global AI SoC Processors Consumption Value Market Share by Region (2020-2031)

Figure 23. North America AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 24. Europe AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 25. Asia-Pacific AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 26. South America AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 27. Middle East & Africa AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 28. Global AI SoC Processors Sales Quantity Market Share by Type (2020-2031)

Figure 29. Global AI SoC Processors Consumption Value Market Share by Type (2020-2031)

Figure 30. Global AI SoC Processors Average Price by Type (2020-2031) & (US\$/Pcs)

Figure 31. Global AI SoC Processors Sales Quantity Market Share by Application (2020-2031)

Figure 32. Global AI SoC Processors Revenue Market Share by Application (2020-2031)

Figure 33. Global AI SoC Processors Average Price by Application (2020-2031) & (US\$/Pcs)

Figure 34. North America AI SoC Processors Sales Quantity Market Share by Type (2020-2031)

Figure 35. North America AI SoC Processors Sales Quantity Market Share by Application (2020-2031)

Figure 36. North America AI SoC Processors Sales Quantity Market Share by Country (2020-2031)

Figure 37. North America AI SoC Processors Consumption Value Market Share by Country (2020-2031)

Figure 38. United States AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 39. Canada AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 40. Mexico AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 41. Europe AI SoC Processors Sales Quantity Market Share by Type (2020-2031)

Figure 42. Europe AI SoC Processors Sales Quantity Market Share by Application (2020-2031)

Figure 43. Europe AI SoC Processors Sales Quantity Market Share by Country (2020-2031)

Figure 44. Europe AI SoC Processors Consumption Value Market Share by Country (2020-2031)

Figure 45. Germany AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 46. France AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 47. United Kingdom AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 48. Russia AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 49. Italy AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 50. Asia-Pacific AI SoC Processors Sales Quantity Market Share by Type (2020-2031)

Figure 51. Asia-Pacific AI SoC Processors Sales Quantity Market Share by Application (2020-2031)

Figure 52. Asia-Pacific AI SoC Processors Sales Quantity Market Share by Region (2020-2031)

Figure 53. Asia-Pacific AI SoC Processors Consumption Value Market Share by Region (2020-2031)

Figure 54. China AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 55. Japan AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 56. South Korea AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 57. India AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 58. Southeast Asia AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 59. Australia AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 60. South America AI SoC Processors Sales Quantity Market Share by Type (2020-2031)

Figure 61. South America AI SoC Processors Sales Quantity Market Share by

Application (2020-2031)

Figure 62. South America AI SoC Processors Sales Quantity Market Share by Country (2020-2031)

Figure 63. South America AI SoC Processors Consumption Value Market Share by Country (2020-2031)

Figure 64. Brazil AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 65. Argentina AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 66. Middle East & Africa AI SoC Processors Sales Quantity Market Share by Type (2020-2031)

Figure 67. Middle East & Africa AI SoC Processors Sales Quantity Market Share by Application (2020-2031)

Figure 68. Middle East & Africa AI SoC Processors Sales Quantity Market Share by Country (2020-2031)

Figure 69. Middle East & Africa AI SoC Processors Consumption Value Market Share by Country (2020-2031)

Figure 70. Turkey AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 71. Egypt AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 72. Saudi Arabia AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 73. South Africa AI SoC Processors Consumption Value (2020-2031) & (USD Million)

Figure 74. AI SoC Processors Market Drivers

Figure 75. AI SoC Processors Market Restraints

Figure 76. AI SoC Processors Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of AI SoC Processors in 2024

Figure 79. Manufacturing Process Analysis of AI SoC Processors

Figure 80. AI SoC Processors Industrial Chain

Figure 81. Sales Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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