

Global AI Application Specific Integrated Circuit (ASIC) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/GB7841DB3615EN.html>

Date: May 2023

Pages: 105

Price: US\$ 3,480.00 (Single User License)

ID: GB7841DB3615EN

Abstracts

According to our (Global Info Research) latest study, the global AI Application Specific Integrated Circuit (ASIC) market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

AI Application Specific Integrated Circuit (ASIC) is a type of integrated circuit designed specifically for artificial intelligence applications. Unlike general-purpose processors, ASICs are designed for specific applications, and therefore can provide higher performance and efficiency.

The design process of ASICs includes circuit design, verification, physical design, and manufacturing. ASICs typically consist of millions or even billions of transistors that are configured into specific circuits to achieve the desired functionality. ASIC design requires specialized knowledge and a great deal of experience, as their design is highly complex and intricate.

ASICs are widely used in the field of artificial intelligence, such as deep learning, machine learning, and natural language processing. Because ASICs can provide high performance and low power consumption, they are better suited for these applications than general-purpose processors. ASICs are also used in other fields, such as communication, image processing, and audio processing.

This report is a detailed and comprehensive analysis for global AI Application Specific Integrated Circuit (ASIC) 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 2023, are provided.

Key Features:

Global AI Application Specific Integrated Circuit (ASIC) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global AI Application Specific Integrated Circuit (ASIC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global AI Application Specific Integrated Circuit (ASIC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global AI Application Specific Integrated Circuit (ASIC) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

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 Application Specific Integrated Circuit (ASIC)

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 Application Specific Integrated Circuit (ASIC) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Google, Huawei,

Intel, Sumsung and Arm, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

AI Application Specific Integrated Circuit (ASIC) 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Digital Circuits

Analog Circuits

Hybrid Circuits

Market segment by Application

Speech Recognition (SR)

Knowledge Graph (KG)

Natural Language Processing (NLP)

Computer Vision (CV)

Others

Major players covered

Google

Huawei

Intel

Samsung

Arm

NVIDIA

AMD

Microchip

Graphcore

NXP Semiconductor

HiSilicon

Horizon

NationalChip

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 Application Specific Integrated Circuit (ASIC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Application Specific Integrated Circuit (ASIC), with price, sales, revenue and global market share of AI Application Specific Integrated Circuit (ASIC) from 2018 to 2023.

Chapter 3, the AI Application Specific Integrated Circuit (ASIC) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Application Specific Integrated Circuit (ASIC) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and AI Application Specific Integrated Circuit (ASIC) market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI Application Specific Integrated Circuit (ASIC).

Chapter 14 and 15, to describe AI Application Specific Integrated Circuit (ASIC) sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of AI Application Specific Integrated Circuit (ASIC)
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Type: 2018 Versus 2022 Versus 2029
 - 1.3.2 Digital Circuits
 - 1.3.3 Analog Circuits
 - 1.3.4 Hybrid Circuits
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Application: 2018 Versus 2022 Versus 2029
 - 1.4.2 Speech Recognition (SR)
 - 1.4.3 Knowledge Graph (KG)
 - 1.4.4 Natural Language Processing (NLP)
 - 1.4.5 Computer Vision (CV)
 - 1.4.6 Others
- 1.5 Global AI Application Specific Integrated Circuit (ASIC) Market Size & Forecast
 - 1.5.1 Global AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018 & 2022 & 2029)
 - 1.5.2 Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity (2018-2029)
 - 1.5.3 Global AI Application Specific Integrated Circuit (ASIC) Average Price (2018-2029)

2 MANUFACTURERS PROFILES

- 2.1 Google
 - 2.1.1 Google Details
 - 2.1.2 Google Major Business
 - 2.1.3 Google AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.1.4 Google AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.1.5 Google Recent Developments/Updates
- 2.2 Huawei
 - 2.2.1 Huawei Details

- 2.2.2 Huawei Major Business
- 2.2.3 Huawei AI Application Specific Integrated Circuit (ASIC) Product and Services
- 2.2.4 Huawei AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.2.5 Huawei Recent Developments/Updates
- 2.3 Intel
 - 2.3.1 Intel Details
 - 2.3.2 Intel Major Business
 - 2.3.3 Intel AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.3.4 Intel AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.3.5 Intel Recent Developments/Updates
- 2.4 Samsung
 - 2.4.1 Samsung Details
 - 2.4.2 Samsung Major Business
 - 2.4.3 Samsung AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.4.4 Samsung AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.4.5 Samsung Recent Developments/Updates
- 2.5 Arm
 - 2.5.1 Arm Details
 - 2.5.2 Arm Major Business
 - 2.5.3 Arm AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.5.4 Arm AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.5.5 Arm Recent Developments/Updates
- 2.6 NVIDIA
 - 2.6.1 NVIDIA Details
 - 2.6.2 NVIDIA Major Business
 - 2.6.3 NVIDIA AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.6.4 NVIDIA AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.6.5 NVIDIA Recent Developments/Updates
- 2.7 AMD
 - 2.7.1 AMD Details
 - 2.7.2 AMD Major Business
 - 2.7.3 AMD AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.7.4 AMD AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.7.5 AMD Recent Developments/Updates
- 2.8 Microchip
 - 2.8.1 Microchip Details
 - 2.8.2 Microchip Major Business
 - 2.8.3 Microchip AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.8.4 Microchip AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.8.5 Microchip Recent Developments/Updates
- 2.9 Graphcore
 - 2.9.1 Graphcore Details
 - 2.9.2 Graphcore Major Business
 - 2.9.3 Graphcore AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.9.4 Graphcore AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.9.5 Graphcore Recent Developments/Updates
- 2.10 NXP Semiconductor
 - 2.10.1 NXP Semiconductor Details
 - 2.10.2 NXP Semiconductor Major Business
 - 2.10.3 NXP Semiconductor AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.10.4 NXP Semiconductor AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.10.5 NXP Semiconductor Recent Developments/Updates
- 2.11 HiSilicon
 - 2.11.1 HiSilicon Details
 - 2.11.2 HiSilicon Major Business
 - 2.11.3 HiSilicon AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.11.4 HiSilicon AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.11.5 HiSilicon Recent Developments/Updates
- 2.12 Horizon
 - 2.12.1 Horizon Details
 - 2.12.2 Horizon Major Business
 - 2.12.3 Horizon AI Application Specific Integrated Circuit (ASIC) Product and Services
 - 2.12.4 Horizon AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.12.5 Horizon Recent Developments/Updates
- 2.13 NationalChip
 - 2.13.1 NationalChip Details

2.13.2 NationalChip Major Business

2.13.3 NationalChip AI Application Specific Integrated Circuit (ASIC) Product and Services

2.13.4 NationalChip AI Application Specific Integrated Circuit (ASIC) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.13.5 NationalChip Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AI APPLICATION SPECIFIC INTEGRATED CIRCUIT (ASIC) BY MANUFACTURER

3.1 Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Manufacturer (2018-2023)

3.2 Global AI Application Specific Integrated Circuit (ASIC) Revenue by Manufacturer (2018-2023)

3.3 Global AI Application Specific Integrated Circuit (ASIC) Average Price by Manufacturer (2018-2023)

3.4 Market Share Analysis (2022)

3.4.1 Producer Shipments of AI Application Specific Integrated Circuit (ASIC) by Manufacturer Revenue (\$MM) and Market Share (%): 2022

3.4.2 Top 3 AI Application Specific Integrated Circuit (ASIC) Manufacturer Market Share in 2022

3.4.2 Top 6 AI Application Specific Integrated Circuit (ASIC) Manufacturer Market Share in 2022

3.5 AI Application Specific Integrated Circuit (ASIC) Market: Overall Company Footprint Analysis

3.5.1 AI Application Specific Integrated Circuit (ASIC) Market: Region Footprint

3.5.2 AI Application Specific Integrated Circuit (ASIC) Market: Company Product Type Footprint

3.5.3 AI Application Specific Integrated Circuit (ASIC) 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 Application Specific Integrated Circuit (ASIC) Market Size by Region

4.1.1 Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Region (2018-2029)

4.1.2 Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by

Region (2018-2029)

4.1.3 Global AI Application Specific Integrated Circuit (ASIC) Average Price by Region (2018-2029)

4.2 North America AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029)

4.3 Europe AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029)

4.4 Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029)

4.5 South America AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029)

4.6 Middle East and Africa AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

5.1 Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2029)

5.2 Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Type (2018-2029)

5.3 Global AI Application Specific Integrated Circuit (ASIC) Average Price by Type (2018-2029)

6 MARKET SEGMENT BY APPLICATION

6.1 Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2029)

6.2 Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Application (2018-2029)

6.3 Global AI Application Specific Integrated Circuit (ASIC) Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2029)

7.2 North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2029)

7.3 North America AI Application Specific Integrated Circuit (ASIC) Market Size by

Country

7.3.1 North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2018-2029)

7.3.2 North America AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

8.1 Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2029)

8.2 Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2029)

8.3 Europe AI Application Specific Integrated Circuit (ASIC) Market Size by Country

8.3.1 Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2018-2029)

8.3.2 Europe AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC

9.1 Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Market Size by Region

9.3.1 Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

9.3.4 Japan Market Size and Forecast (2018-2029)

- 9.3.5 Korea Market Size and Forecast (2018-2029)
- 9.3.6 India Market Size and Forecast (2018-2029)
- 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
- 9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

- 10.1 South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2029)
- 10.2 South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2029)
- 10.3 South America AI Application Specific Integrated Circuit (ASIC) Market Size by Country
 - 10.3.1 South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2018-2029)
 - 10.3.2 South America AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2018-2029)
 - 10.3.3 Brazil Market Size and Forecast (2018-2029)
 - 10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2029)
- 11.2 Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2029)
- 11.3 Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Market Size by Country
 - 11.3.1 Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2018-2029)
 - 11.3.2 Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2018-2029)
 - 11.3.3 Turkey Market Size and Forecast (2018-2029)
 - 11.3.4 Egypt Market Size and Forecast (2018-2029)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
 - 11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

- 12.1 AI Application Specific Integrated Circuit (ASIC) Market Drivers
- 12.2 AI Application Specific Integrated Circuit (ASIC) Market Restraints
- 12.3 AI Application Specific Integrated Circuit (ASIC) 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
- 12.5 Influence of COVID-19 and Russia-Ukraine War
 - 12.5.1 Influence of COVID-19
 - 12.5.2 Influence of Russia-Ukraine War

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of AI Application Specific Integrated Circuit (ASIC) and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of AI Application Specific Integrated Circuit (ASIC)
- 13.3 AI Application Specific Integrated Circuit (ASIC) Production Process
- 13.4 AI Application Specific Integrated Circuit (ASIC) Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 AI Application Specific Integrated Circuit (ASIC) Typical Distributors
- 14.3 AI Application Specific Integrated Circuit (ASIC) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

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

List Of Tables

LIST OF TABLES

- Table 1. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 2. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 3. Google Basic Information, Manufacturing Base and Competitors
- Table 4. Google Major Business
- Table 5. Google AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 6. Google AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 7. Google Recent Developments/Updates
- Table 8. Huawei Basic Information, Manufacturing Base and Competitors
- Table 9. Huawei Major Business
- Table 10. Huawei AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 11. Huawei AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 12. Huawei Recent Developments/Updates
- Table 13. Intel Basic Information, Manufacturing Base and Competitors
- Table 14. Intel Major Business
- Table 15. Intel AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 16. Intel AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 17. Intel Recent Developments/Updates
- Table 18. Sumsung Basic Information, Manufacturing Base and Competitors
- Table 19. Sumsung Major Business
- Table 20. Sumsung AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 21. Sumsung AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 22. Sumsung Recent Developments/Updates
- Table 23. Arm Basic Information, Manufacturing Base and Competitors
- Table 24. Arm Major Business

- Table 25. Arm AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 26. Arm AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 27. Arm Recent Developments/Updates
- Table 28. NVIDIA Basic Information, Manufacturing Base and Competitors
- Table 29. NVIDIA Major Business
- Table 30. NVIDIA AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 31. NVIDIA AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 32. NVIDIA Recent Developments/Updates
- Table 33. AMD Basic Information, Manufacturing Base and Competitors
- Table 34. AMD Major Business
- Table 35. AMD AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 36. AMD AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 37. AMD Recent Developments/Updates
- Table 38. Microchip Basic Information, Manufacturing Base and Competitors
- Table 39. Microchip Major Business
- Table 40. Microchip AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 41. Microchip AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 42. Microchip Recent Developments/Updates
- Table 43. Graphcore Basic Information, Manufacturing Base and Competitors
- Table 44. Graphcore Major Business
- Table 45. Graphcore AI Application Specific Integrated Circuit (ASIC) Product and Services
- Table 46. Graphcore AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 47. Graphcore Recent Developments/Updates
- Table 48. NXP Semiconductor Basic Information, Manufacturing Base and Competitors
- Table 49. NXP Semiconductor Major Business
- Table 50. NXP Semiconductor AI Application Specific Integrated Circuit (ASIC) Product and Services

Table 51. NXP Semiconductor AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 52. NXP Semiconductor Recent Developments/Updates

Table 53. HiSilicon Basic Information, Manufacturing Base and Competitors

Table 54. HiSilicon Major Business

Table 55. HiSilicon AI Application Specific Integrated Circuit (ASIC) Product and Services

Table 56. HiSilicon AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. HiSilicon Recent Developments/Updates

Table 58. Horizon Basic Information, Manufacturing Base and Competitors

Table 59. Horizon Major Business

Table 60. Horizon AI Application Specific Integrated Circuit (ASIC) Product and Services

Table 61. Horizon AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Horizon Recent Developments/Updates

Table 63. NationalChip Basic Information, Manufacturing Base and Competitors

Table 64. NationalChip Major Business

Table 65. NationalChip AI Application Specific Integrated Circuit (ASIC) Product and Services

Table 66. NationalChip AI Application Specific Integrated Circuit (ASIC) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. NationalChip Recent Developments/Updates

Table 68. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 69. Global AI Application Specific Integrated Circuit (ASIC) Revenue by Manufacturer (2018-2023) & (USD Million)

Table 70. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 71. Market Position of Manufacturers in AI Application Specific Integrated Circuit (ASIC), (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 72. Head Office and AI Application Specific Integrated Circuit (ASIC) Production Site of Key Manufacturer

Table 73. AI Application Specific Integrated Circuit (ASIC) Market: Company Product

Type Footprint

Table 74. AI Application Specific Integrated Circuit (ASIC) Market: Company Product Application Footprint

Table 75. AI Application Specific Integrated Circuit (ASIC) New Market Entrants and Barriers to Market Entry

Table 76. AI Application Specific Integrated Circuit (ASIC) Mergers, Acquisition, Agreements, and Collaborations

Table 77. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Region (2018-2023) & (K Units)

Table 78. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Region (2024-2029) & (K Units)

Table 79. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Region (2018-2023) & (USD Million)

Table 80. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Region (2024-2029) & (USD Million)

Table 81. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Region (2018-2023) & (US\$/Unit)

Table 82. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Region (2024-2029) & (US\$/Unit)

Table 83. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2023) & (K Units)

Table 84. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2024-2029) & (K Units)

Table 85. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Type (2018-2023) & (USD Million)

Table 86. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Type (2024-2029) & (USD Million)

Table 87. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Type (2018-2023) & (US\$/Unit)

Table 88. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Type (2024-2029) & (US\$/Unit)

Table 89. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2023) & (K Units)

Table 90. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2024-2029) & (K Units)

Table 91. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Application (2018-2023) & (USD Million)

Table 92. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Application (2024-2029) & (USD Million)

Table 93. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Application (2018-2023) & (US\$/Unit)

Table 94. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Application (2024-2029) & (US\$/Unit)

Table 95. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2023) & (K Units)

Table 96. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2024-2029) & (K Units)

Table 97. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2023) & (K Units)

Table 98. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2024-2029) & (K Units)

Table 99. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2018-2023) & (K Units)

Table 100. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2024-2029) & (K Units)

Table 101. North America AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2018-2023) & (USD Million)

Table 102. North America AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2024-2029) & (USD Million)

Table 103. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2023) & (K Units)

Table 104. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2024-2029) & (K Units)

Table 105. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2023) & (K Units)

Table 106. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2024-2029) & (K Units)

Table 107. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2018-2023) & (K Units)

Table 108. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2024-2029) & (K Units)

Table 109. Europe AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2018-2023) & (USD Million)

Table 110. Europe AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2024-2029) & (USD Million)

Table 111. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2023) & (K Units)

Table 112. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity

by Type (2024-2029) & (K Units)

Table 113. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2023) & (K Units)

Table 114. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2024-2029) & (K Units)

Table 115. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Region (2018-2023) & (K Units)

Table 116. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Region (2024-2029) & (K Units)

Table 117. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Consumption Value by Region (2018-2023) & (USD Million)

Table 118. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Consumption Value by Region (2024-2029) & (USD Million)

Table 119. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2023) & (K Units)

Table 120. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2024-2029) & (K Units)

Table 121. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2023) & (K Units)

Table 122. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2024-2029) & (K Units)

Table 123. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2018-2023) & (K Units)

Table 124. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Country (2024-2029) & (K Units)

Table 125. South America AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2018-2023) & (USD Million)

Table 126. South America AI Application Specific Integrated Circuit (ASIC) Consumption Value by Country (2024-2029) & (USD Million)

Table 127. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2018-2023) & (K Units)

Table 128. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Type (2024-2029) & (K Units)

Table 129. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2018-2023) & (K Units)

Table 130. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Application (2024-2029) & (K Units)

Table 131. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Region (2018-2023) & (K Units)

Table 132. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity by Region (2024-2029) & (K Units)

Table 133. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Consumption Value by Region (2018-2023) & (USD Million)

Table 134. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Consumption Value by Region (2024-2029) & (USD Million)

Table 135. AI Application Specific Integrated Circuit (ASIC) Raw Material

Table 136. Key Manufacturers of AI Application Specific Integrated Circuit (ASIC) Raw Materials

Table 137. AI Application Specific Integrated Circuit (ASIC) Typical Distributors

Table 138. AI Application Specific Integrated Circuit (ASIC) Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. AI Application Specific Integrated Circuit (ASIC) Picture
- Figure 2. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Type in 2022
- Figure 4. Digital Circuits Examples
- Figure 5. Analog Circuits Examples
- Figure 6. Hybrid Circuits Examples
- Figure 7. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 8. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Application in 2022
- Figure 9. Speech Recognition (SR) Examples
- Figure 10. Knowledge Graph (KG) Examples
- Figure 11. Natural Language Processing (NLP) Examples
- Figure 12. Computer Vision (CV) Examples
- Figure 13. Others Examples
- Figure 14. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 15. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 16. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity (2018-2029) & (K Units)
- Figure 17. Global AI Application Specific Integrated Circuit (ASIC) Average Price (2018-2029) & (US\$/Unit)
- Figure 18. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Manufacturer in 2022
- Figure 19. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Manufacturer in 2022
- Figure 20. Producer Shipments of AI Application Specific Integrated Circuit (ASIC) by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 21. Top 3 AI Application Specific Integrated Circuit (ASIC) Manufacturer (Consumption Value) Market Share in 2022
- Figure 22. Top 6 AI Application Specific Integrated Circuit (ASIC) Manufacturer (Consumption Value) Market Share in 2022

Figure 23. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Region (2018-2029)

Figure 24. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Region (2018-2029)

Figure 25. North America AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029) & (USD Million)

Figure 26. Europe AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029) & (USD Million)

Figure 27. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029) & (USD Million)

Figure 28. South America AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029) & (USD Million)

Figure 29. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Consumption Value (2018-2029) & (USD Million)

Figure 30. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Type (2018-2029)

Figure 31. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Type (2018-2029)

Figure 32. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Type (2018-2029) & (US\$/Unit)

Figure 33. Global AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Application (2018-2029)

Figure 34. Global AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Application (2018-2029)

Figure 35. Global AI Application Specific Integrated Circuit (ASIC) Average Price by Application (2018-2029) & (US\$/Unit)

Figure 36. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Type (2018-2029)

Figure 37. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Application (2018-2029)

Figure 38. North America AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Country (2018-2029)

Figure 39. North America AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Country (2018-2029)

Figure 40. United States AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Canada AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Mexico AI Application Specific Integrated Circuit (ASIC) Consumption Value

and Growth Rate (2018-2029) & (USD Million)

Figure 43. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Type (2018-2029)

Figure 44. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Application (2018-2029)

Figure 45. Europe AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Country (2018-2029)

Figure 46. Europe AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Country (2018-2029)

Figure 47. Germany AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. France AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. United Kingdom AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Russia AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Italy AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 52. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Type (2018-2029)

Figure 53. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Application (2018-2029)

Figure 54. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Region (2018-2029)

Figure 55. Asia-Pacific AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Region (2018-2029)

Figure 56. China AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Japan AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. Korea AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. India AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Southeast Asia AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. Australia AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 62. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Type (2018-2029)

Figure 63. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Application (2018-2029)

Figure 64. South America AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Country (2018-2029)

Figure 65. South America AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Country (2018-2029)

Figure 66. Brazil AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Argentina AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 68. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Type (2018-2029)

Figure 69. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Application (2018-2029)

Figure 70. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Sales Quantity Market Share by Region (2018-2029)

Figure 71. Middle East & Africa AI Application Specific Integrated Circuit (ASIC) Consumption Value Market Share by Region (2018-2029)

Figure 72. Turkey AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Egypt AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. Saudi Arabia AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. South Africa AI Application Specific Integrated Circuit (ASIC) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 76. AI Application Specific Integrated Circuit (ASIC) Market Drivers

Figure 77. AI Application Specific Integrated Circuit (ASIC) Market Restraints

Figure 78. AI Application Specific Integrated Circuit (ASIC) Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of AI Application Specific Integrated Circuit (ASIC) in 2022

Figure 81. Manufacturing Process Analysis of AI Application Specific Integrated Circuit (ASIC)

Figure 82. AI Application Specific Integrated Circuit (ASIC) Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

I would like to order

Product name: Global AI Application Specific Integrated Circuit (ASIC) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

Product link: <https://marketpublishers.com/r/GB7841DB3615EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GB7841DB3615EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

