

# Global Single Channel Analog-to-Digital Converter Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global Single Channel Analog-to-Digital Converter 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.

A single channel analog-to-digital converter is an electronic device or circuit used to convert continuously changing analog signals into discrete digital signals. This type of converter is very common in many applications, such as signal processing, control systems, communication systems, sensor data acquisition, and other fields. A single channel ADC samples analog signals from a single input channel and quantizes them into corresponding digital values at each sampling point. This numerical value can be represented as a binary number or other digital encoding form, usually processed and analyzed by a microprocessor or digital signal processor. The conversion process includes two main stages: sampling: the analog signal is measured and recorded within a certain time interval, obtaining a series of discrete sampling values. Quantization: The sampling value is converted into the closest digital value, usually represented by a fixed number of binary digits, and this process is called quantization. The performance of a single channel ADC is typically measured by several key indicators: Resolution: the ability of the quantizer to accurately represent analog signals as digital signals, representing the number of bits of digital output. For example, a 12 bit ADC can convert an analog signal into  $2^{12}=4096$  different digital values. Sampling Rate: Indicates the number of times ADC samples an analog signal per second. The sampling rate determines the ADC's ability to capture and represent the rapidly changing parts of the analog signal. Accuracy: refers to the error between the digital value output by the ADC and the true value of the original analog signal. High accuracy means that the output of the converter is closer to the actual input signal. Bandwidth: Refers to the frequency

range of analog signals that ADC can process. The wider the bandwidth, the ADC can process higher frequency signals. Single channel ADC plays an important role in many electronic devices and systems, providing an interface between the analog and digital fields, enabling digital systems to process and interpret analog signals from the external world.

The Global Info Research report includes an overview of the development of the Single Channel Analog-to-Digital Converter industry chain, the market status of Communications Industry (8-Bit ADC, 10-Bit ADC), Industrial Automation Industry (8-Bit ADC, 10-Bit ADC), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Single Channel Analog-to-Digital Converter.

Regionally, the report analyzes the Single Channel Analog-to-Digital Converter markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Single Channel Analog-to-Digital Converter market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Single Channel Analog-to-Digital Converter market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Single Channel Analog-to-Digital Converter industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Resolution (e.g., 8-Bit ADC, 10-Bit ADC).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Single Channel Analog-to-Digital Converter market.

**Regional Analysis:** The report involves examining the Single Channel Analog-to-Digital

Converter market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Single Channel Analog-to-Digital Converter market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Single Channel Analog-to-Digital Converter:

**Company Analysis:** Report covers individual Single Channel Analog-to-Digital Converter manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Single Channel Analog-to-Digital Converter. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Communications Industry, Industrial Automation Industry).

**Technology Analysis:** Report covers specific technologies relevant to Single Channel Analog-to-Digital Converter. It assesses the current state, advancements, and potential future developments in Single Channel Analog-to-Digital Converter areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Single Channel Analog-to-Digital Converter market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Single Channel Analog-to-Digital Converter market is split by Resolution and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Resolution, and by Application in

terms of volume and value.

#### Market segment by Resolution

8-Bit ADC

10-Bit ADC

12-Bit ADC

16-Bit ADC

24-Bit ADC

Others

#### Market segment by Application

Communications Industry

Industrial Automation Industry

Medical Industry

Automobile Industry

Aerospace Industry

Others

#### Major players covered

Texas Instruments

Analog Devices

Microchip Technology

National Instruments

Cirrus Logic

ON Semiconductor

Renesas Electronics Corporation

STMicroelectronics

NXP Semiconductors

ADLINK Technology

Silicon Labs

Xilinx

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 Single Channel Analog-to-Digital Converter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single Channel Analog-to-Digital Converter, with price, sales, revenue and global market share of Single Channel Analog-to-Digital Converter from 2018 to 2023.

Chapter 3, the Single Channel Analog-to-Digital Converter competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single Channel Analog-to-Digital Converter 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 Resolution and application, with sales market share and growth rate by resolution, 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 Single Channel Analog-to-Digital Converter market forecast, by regions, resolution 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 Single Channel Analog-to-Digital Converter.

Chapter 14 and 15, to describe Single Channel Analog-to-Digital Converter sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope of Single Channel Analog-to-Digital Converter

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Resolution

1.3.1 Overview: Global Single Channel Analog-to-Digital Converter Consumption Value by Resolution: 2018 Versus 2022 Versus 2029

1.3.2 8-Bit ADC

1.3.3 10-Bit ADC

1.3.4 12-Bit ADC

1.3.5 16-Bit ADC

1.3.6 24-Bit ADC

1.3.7 Others

1.4 Market Analysis by Application

1.4.1 Overview: Global Single Channel Analog-to-Digital Converter Consumption Value by Application: 2018 Versus 2022 Versus 2029

1.4.2 Communications Industry

1.4.3 Industrial Automation Industry

1.4.4 Medical Industry

1.4.5 Automobile Industry

1.4.6 Aerospace Industry

1.4.7 Others

1.5 Global Single Channel Analog-to-Digital Converter Market Size & Forecast

1.5.1 Global Single Channel Analog-to-Digital Converter Consumption Value (2018 & 2022 & 2029)

1.5.2 Global Single Channel Analog-to-Digital Converter Sales Quantity (2018-2029)

1.5.3 Global Single Channel Analog-to-Digital Converter Average Price (2018-2029)

### 2 MANUFACTURERS PROFILES

2.1 Texas Instruments

2.1.1 Texas Instruments Details

2.1.2 Texas Instruments Major Business

2.1.3 Texas Instruments Single Channel Analog-to-Digital Converter Product and Services

2.1.4 Texas Instruments Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.1.5 Texas Instruments Recent Developments/Updates
- 2.2 Analog Devices
  - 2.2.1 Analog Devices Details
  - 2.2.2 Analog Devices Major Business
  - 2.2.3 Analog Devices Single Channel Analog-to-Digital Converter Product and Services
  - 2.2.4 Analog Devices Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.2.5 Analog Devices Recent Developments/Updates
- 2.3 Microchip Technology
  - 2.3.1 Microchip Technology Details
  - 2.3.2 Microchip Technology Major Business
  - 2.3.3 Microchip Technology Single Channel Analog-to-Digital Converter Product and Services
  - 2.3.4 Microchip Technology Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.3.5 Microchip Technology Recent Developments/Updates
- 2.4 National Instruments
  - 2.4.1 National Instruments Details
  - 2.4.2 National Instruments Major Business
  - 2.4.3 National Instruments Single Channel Analog-to-Digital Converter Product and Services
  - 2.4.4 National Instruments Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.4.5 National Instruments Recent Developments/Updates
- 2.5 Cirrus Logic
  - 2.5.1 Cirrus Logic Details
  - 2.5.2 Cirrus Logic Major Business
  - 2.5.3 Cirrus Logic Single Channel Analog-to-Digital Converter Product and Services
  - 2.5.4 Cirrus Logic Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.5.5 Cirrus Logic Recent Developments/Updates
- 2.6 ON Semiconductor
  - 2.6.1 ON Semiconductor Details
  - 2.6.2 ON Semiconductor Major Business
  - 2.6.3 ON Semiconductor Single Channel Analog-to-Digital Converter Product and Services
  - 2.6.4 ON Semiconductor Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)



- 2.6.5 ON Semiconductor Recent Developments/Updates
- 2.7 Renesas Electronics Corporation
  - 2.7.1 Renesas Electronics Corporation Details
  - 2.7.2 Renesas Electronics Corporation Major Business
  - 2.7.3 Renesas Electronics Corporation Single Channel Analog-to-Digital Converter Product and Services
  - 2.7.4 Renesas Electronics Corporation Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.7.5 Renesas Electronics Corporation Recent Developments/Updates
- 2.8 STMicroelectronics
  - 2.8.1 STMicroelectronics Details
  - 2.8.2 STMicroelectronics Major Business
  - 2.8.3 STMicroelectronics Single Channel Analog-to-Digital Converter Product and Services
  - 2.8.4 STMicroelectronics Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.8.5 STMicroelectronics Recent Developments/Updates
- 2.9 NXP Semiconductors
  - 2.9.1 NXP Semiconductors Details
  - 2.9.2 NXP Semiconductors Major Business
  - 2.9.3 NXP Semiconductors Single Channel Analog-to-Digital Converter Product and Services
  - 2.9.4 NXP Semiconductors Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.9.5 NXP Semiconductors Recent Developments/Updates
- 2.10 ADLINK Technology
  - 2.10.1 ADLINK Technology Details
  - 2.10.2 ADLINK Technology Major Business
  - 2.10.3 ADLINK Technology Single Channel Analog-to-Digital Converter Product and Services
  - 2.10.4 ADLINK Technology Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.10.5 ADLINK Technology Recent Developments/Updates
- 2.11 Silicon Labs
  - 2.11.1 Silicon Labs Details
  - 2.11.2 Silicon Labs Major Business
  - 2.11.3 Silicon Labs Single Channel Analog-to-Digital Converter Product and Services
  - 2.11.4 Silicon Labs Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.11.5 Silicon Labs Recent Developments/Updates
- 2.12 Xilinx
  - 2.12.1 Xilinx Details
  - 2.12.2 Xilinx Major Business
  - 2.12.3 Xilinx Single Channel Analog-to-Digital Converter Product and Services
  - 2.12.4 Xilinx Single Channel Analog-to-Digital Converter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.12.5 Xilinx Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: SINGLE CHANNEL ANALOG-TO-DIGITAL CONVERTER BY MANUFACTURER**

- 3.1 Global Single Channel Analog-to-Digital Converter Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Single Channel Analog-to-Digital Converter Revenue by Manufacturer (2018-2023)
- 3.3 Global Single Channel Analog-to-Digital Converter Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
  - 3.4.1 Producer Shipments of Single Channel Analog-to-Digital Converter by Manufacturer Revenue (\$MM) and Market Share (%): 2022
  - 3.4.2 Top 3 Single Channel Analog-to-Digital Converter Manufacturer Market Share in 2022
  - 3.4.2 Top 6 Single Channel Analog-to-Digital Converter Manufacturer Market Share in 2022
- 3.5 Single Channel Analog-to-Digital Converter Market: Overall Company Footprint Analysis
  - 3.5.1 Single Channel Analog-to-Digital Converter Market: Region Footprint
  - 3.5.2 Single Channel Analog-to-Digital Converter Market: Company Product Type Footprint
  - 3.5.3 Single Channel Analog-to-Digital Converter 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 Single Channel Analog-to-Digital Converter Market Size by Region
  - 4.1.1 Global Single Channel Analog-to-Digital Converter Sales Quantity by Region

(2018-2029)

4.1.2 Global Single Channel Analog-to-Digital Converter Consumption Value by Region (2018-2029)

4.1.3 Global Single Channel Analog-to-Digital Converter Average Price by Region (2018-2029)

4.2 North America Single Channel Analog-to-Digital Converter Consumption Value (2018-2029)

4.3 Europe Single Channel Analog-to-Digital Converter Consumption Value (2018-2029)

4.4 Asia-Pacific Single Channel Analog-to-Digital Converter Consumption Value (2018-2029)

4.5 South America Single Channel Analog-to-Digital Converter Consumption Value (2018-2029)

4.6 Middle East and Africa Single Channel Analog-to-Digital Converter Consumption Value (2018-2029)

## **5 MARKET SEGMENT BY RESOLUTION**

5.1 Global Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2029)

5.2 Global Single Channel Analog-to-Digital Converter Consumption Value by Resolution (2018-2029)

5.3 Global Single Channel Analog-to-Digital Converter Average Price by Resolution (2018-2029)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2029)

6.2 Global Single Channel Analog-to-Digital Converter Consumption Value by Application (2018-2029)

6.3 Global Single Channel Analog-to-Digital Converter Average Price by Application (2018-2029)

## **7 NORTH AMERICA**

7.1 North America Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2029)

7.2 North America Single Channel Analog-to-Digital Converter Sales Quantity by

Application (2018-2029)

7.3 North America Single Channel Analog-to-Digital Converter Market Size by Country

7.3.1 North America Single Channel Analog-to-Digital Converter Sales Quantity by Country (2018-2029)

7.3.2 North America Single Channel Analog-to-Digital Converter 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 Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2029)

8.2 Europe Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2029)

8.3 Europe Single Channel Analog-to-Digital Converter Market Size by Country

8.3.1 Europe Single Channel Analog-to-Digital Converter Sales Quantity by Country (2018-2029)

8.3.2 Europe Single Channel Analog-to-Digital Converter 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 Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2029)

9.2 Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Single Channel Analog-to-Digital Converter Market Size by Region

9.3.1 Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific Single Channel Analog-to-Digital Converter 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 Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2029)
- 10.2 South America Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2029)
- 10.3 South America Single Channel Analog-to-Digital Converter Market Size by Country
  - 10.3.1 South America Single Channel Analog-to-Digital Converter Sales Quantity by Country (2018-2029)
  - 10.3.2 South America Single Channel Analog-to-Digital Converter 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 Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2029)
- 11.2 Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2029)
- 11.3 Middle East & Africa Single Channel Analog-to-Digital Converter Market Size by Country
  - 11.3.1 Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity by Country (2018-2029)
  - 11.3.2 Middle East & Africa Single Channel Analog-to-Digital Converter 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 Single Channel Analog-to-Digital Converter Market Drivers
- 12.2 Single Channel Analog-to-Digital Converter Market Restraints
- 12.3 Single Channel Analog-to-Digital Converter 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 Single Channel Analog-to-Digital Converter and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Single Channel Analog-to-Digital Converter
- 13.3 Single Channel Analog-to-Digital Converter Production Process
- 13.4 Single Channel Analog-to-Digital Converter Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Single Channel Analog-to-Digital Converter Typical Distributors
- 14.3 Single Channel Analog-to-Digital Converter 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 Single Channel Analog-to-Digital Converter Consumption Value by Resolution, (USD Million), 2018 & 2022 & 2029

Table 2. Global Single Channel Analog-to-Digital Converter Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 4. Texas Instruments Major Business

Table 5. Texas Instruments Single Channel Analog-to-Digital Converter Product and Services

Table 6. Texas Instruments Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. Texas Instruments Recent Developments/Updates

Table 8. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 9. Analog Devices Major Business

Table 10. Analog Devices Single Channel Analog-to-Digital Converter Product and Services

Table 11. Analog Devices Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. Analog Devices Recent Developments/Updates

Table 13. Microchip Technology Basic Information, Manufacturing Base and Competitors

Table 14. Microchip Technology Major Business

Table 15. Microchip Technology Single Channel Analog-to-Digital Converter Product and Services

Table 16. Microchip Technology Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. Microchip Technology Recent Developments/Updates

Table 18. National Instruments Basic Information, Manufacturing Base and Competitors

Table 19. National Instruments Major Business

Table 20. National Instruments Single Channel Analog-to-Digital Converter Product and Services

Table 21. National Instruments Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and

**Market Share (2018-2023)****Table 22. National Instruments Recent Developments/Updates****Table 23. Cirrus Logic Basic Information, Manufacturing Base and Competitors****Table 24. Cirrus Logic Major Business****Table 25. Cirrus Logic Single Channel Analog-to-Digital Converter Product and Services****Table 26. Cirrus Logic Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)****Table 27. Cirrus Logic Recent Developments/Updates****Table 28. ON Semiconductor Basic Information, Manufacturing Base and Competitors****Table 29. ON Semiconductor Major Business****Table 30. ON Semiconductor Single Channel Analog-to-Digital Converter Product and Services****Table 31. ON Semiconductor Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)****Table 32. ON Semiconductor Recent Developments/Updates****Table 33. Renesas Electronics Corporation Basic Information, Manufacturing Base and Competitors****Table 34. Renesas Electronics Corporation Major Business****Table 35. Renesas Electronics Corporation Single Channel Analog-to-Digital Converter Product and Services****Table 36. Renesas Electronics Corporation Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)****Table 37. Renesas Electronics Corporation Recent Developments/Updates****Table 38. STMicroelectronics Basic Information, Manufacturing Base and Competitors****Table 39. STMicroelectronics Major Business****Table 40. STMicroelectronics Single Channel Analog-to-Digital Converter Product and Services****Table 41. STMicroelectronics Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)****Table 42. STMicroelectronics Recent Developments/Updates****Table 43. NXP Semiconductors Basic Information, Manufacturing Base and Competitors****Table 44. NXP Semiconductors Major Business****Table 45. NXP Semiconductors Single Channel Analog-to-Digital Converter Product and Services**



Table 46. NXP Semiconductors Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 47. NXP Semiconductors Recent Developments/Updates

Table 48. ADLINK Technology Basic Information, Manufacturing Base and Competitors

Table 49. ADLINK Technology Major Business

Table 50. ADLINK Technology Single Channel Analog-to-Digital Converter Product and Services

Table 51. ADLINK Technology Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 52. ADLINK Technology Recent Developments/Updates

Table 53. Silicon Labs Basic Information, Manufacturing Base and Competitors

Table 54. Silicon Labs Major Business

Table 55. Silicon Labs Single Channel Analog-to-Digital Converter Product and Services

Table 56. Silicon Labs Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. Silicon Labs Recent Developments/Updates

Table 58. Xilinx Basic Information, Manufacturing Base and Competitors

Table 59. Xilinx Major Business

Table 60. Xilinx Single Channel Analog-to-Digital Converter Product and Services

Table 61. Xilinx Single Channel Analog-to-Digital Converter Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Xilinx Recent Developments/Updates

Table 63. Global Single Channel Analog-to-Digital Converter Sales Quantity by Manufacturer (2018-2023) & (Units)

Table 64. Global Single Channel Analog-to-Digital Converter Revenue by Manufacturer (2018-2023) & (USD Million)

Table 65. Global Single Channel Analog-to-Digital Converter Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 66. Market Position of Manufacturers in Single Channel Analog-to-Digital Converter, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 67. Head Office and Single Channel Analog-to-Digital Converter Production Site of Key Manufacturer

Table 68. Single Channel Analog-to-Digital Converter Market: Company Product Type Footprint

Table 69. Single Channel Analog-to-Digital Converter Market: Company Product Application Footprint

Table 70. Single Channel Analog-to-Digital Converter New Market Entrants and Barriers to Market Entry

Table 71. Single Channel Analog-to-Digital Converter Mergers, Acquisition, Agreements, and Collaborations

Table 72. Global Single Channel Analog-to-Digital Converter Sales Quantity by Region (2018-2023) & (Units)

Table 73. Global Single Channel Analog-to-Digital Converter Sales Quantity by Region (2024-2029) & (Units)

Table 74. Global Single Channel Analog-to-Digital Converter Consumption Value by Region (2018-2023) & (USD Million)

Table 75. Global Single Channel Analog-to-Digital Converter Consumption Value by Region (2024-2029) & (USD Million)

Table 76. Global Single Channel Analog-to-Digital Converter Average Price by Region (2018-2023) & (US\$/Unit)

Table 77. Global Single Channel Analog-to-Digital Converter Average Price by Region (2024-2029) & (US\$/Unit)

Table 78. Global Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2023) & (Units)

Table 79. Global Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2024-2029) & (Units)

Table 80. Global Single Channel Analog-to-Digital Converter Consumption Value by Resolution (2018-2023) & (USD Million)

Table 81. Global Single Channel Analog-to-Digital Converter Consumption Value by Resolution (2024-2029) & (USD Million)

Table 82. Global Single Channel Analog-to-Digital Converter Average Price by Resolution (2018-2023) & (US\$/Unit)

Table 83. Global Single Channel Analog-to-Digital Converter Average Price by Resolution (2024-2029) & (US\$/Unit)

Table 84. Global Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2023) & (Units)

Table 85. Global Single Channel Analog-to-Digital Converter Sales Quantity by Application (2024-2029) & (Units)

Table 86. Global Single Channel Analog-to-Digital Converter Consumption Value by Application (2018-2023) & (USD Million)

Table 87. Global Single Channel Analog-to-Digital Converter Consumption Value by Application (2024-2029) & (USD Million)

Table 88. Global Single Channel Analog-to-Digital Converter Average Price by

Application (2018-2023) & (US\$/Unit)

Table 89. Global Single Channel Analog-to-Digital Converter Average Price by Application (2024-2029) & (US\$/Unit)

Table 90. North America Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2023) & (Units)

Table 91. North America Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2024-2029) & (Units)

Table 92. North America Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2023) & (Units)

Table 93. North America Single Channel Analog-to-Digital Converter Sales Quantity by Application (2024-2029) & (Units)

Table 94. North America Single Channel Analog-to-Digital Converter Sales Quantity by Country (2018-2023) & (Units)

Table 95. North America Single Channel Analog-to-Digital Converter Sales Quantity by Country (2024-2029) & (Units)

Table 96. North America Single Channel Analog-to-Digital Converter Consumption Value by Country (2018-2023) & (USD Million)

Table 97. North America Single Channel Analog-to-Digital Converter Consumption Value by Country (2024-2029) & (USD Million)

Table 98. Europe Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2023) & (Units)

Table 99. Europe Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2024-2029) & (Units)

Table 100. Europe Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2023) & (Units)

Table 101. Europe Single Channel Analog-to-Digital Converter Sales Quantity by Application (2024-2029) & (Units)

Table 102. Europe Single Channel Analog-to-Digital Converter Sales Quantity by Country (2018-2023) & (Units)

Table 103. Europe Single Channel Analog-to-Digital Converter Sales Quantity by Country (2024-2029) & (Units)

Table 104. Europe Single Channel Analog-to-Digital Converter Consumption Value by Country (2018-2023) & (USD Million)

Table 105. Europe Single Channel Analog-to-Digital Converter Consumption Value by Country (2024-2029) & (USD Million)

Table 106. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2023) & (Units)

Table 107. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2024-2029) & (Units)

Table 108. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2023) & (Units)

Table 109. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity by Application (2024-2029) & (Units)

Table 110. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity by Region (2018-2023) & (Units)

Table 111. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity by Region (2024-2029) & (Units)

Table 112. Asia-Pacific Single Channel Analog-to-Digital Converter Consumption Value by Region (2018-2023) & (USD Million)

Table 113. Asia-Pacific Single Channel Analog-to-Digital Converter Consumption Value by Region (2024-2029) & (USD Million)

Table 114. South America Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2023) & (Units)

Table 115. South America Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2024-2029) & (Units)

Table 116. South America Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2023) & (Units)

Table 117. South America Single Channel Analog-to-Digital Converter Sales Quantity by Application (2024-2029) & (Units)

Table 118. South America Single Channel Analog-to-Digital Converter Sales Quantity by Country (2018-2023) & (Units)

Table 119. South America Single Channel Analog-to-Digital Converter Sales Quantity by Country (2024-2029) & (Units)

Table 120. South America Single Channel Analog-to-Digital Converter Consumption Value by Country (2018-2023) & (USD Million)

Table 121. South America Single Channel Analog-to-Digital Converter Consumption Value by Country (2024-2029) & (USD Million)

Table 122. Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2018-2023) & (Units)

Table 123. Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity by Resolution (2024-2029) & (Units)

Table 124. Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity by Application (2018-2023) & (Units)

Table 125. Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity by Application (2024-2029) & (Units)

Table 126. Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity by Region (2018-2023) & (Units)

Table 127. Middle East & Africa Single Channel Analog-to-Digital Converter Sales

Quantity by Region (2024-2029) & (Units)

Table 128. Middle East & Africa Single Channel Analog-to-Digital Converter Consumption Value by Region (2018-2023) & (USD Million)

Table 129. Middle East & Africa Single Channel Analog-to-Digital Converter Consumption Value by Region (2024-2029) & (USD Million)

Table 130. Single Channel Analog-to-Digital Converter Raw Material

Table 131. Key Manufacturers of Single Channel Analog-to-Digital Converter Raw Materials

Table 132. Single Channel Analog-to-Digital Converter Typical Distributors

Table 133. Single Channel Analog-to-Digital Converter Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Single Channel Analog-to-Digital Converter Picture

Figure 2. Global Single Channel Analog-to-Digital Converter Consumption Value by Resolution, (USD Million), 2018 & 2022 & 2029

Figure 3. Global Single Channel Analog-to-Digital Converter Consumption Value Market Share by Resolution in 2022

Figure 4. 8-Bit ADC Examples

Figure 5. 10-Bit ADC Examples

Figure 6. 12-Bit ADC Examples

Figure 7. 16-Bit ADC Examples

Figure 8. 24-Bit ADC Examples

Figure 9. Others Examples

Figure 10. Global Single Channel Analog-to-Digital Converter Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 11. Global Single Channel Analog-to-Digital Converter Consumption Value Market Share by Application in 2022

Figure 12. Communications Industry Examples

Figure 13. Industrial Automation Industry Examples

Figure 14. Medical Industry Examples

Figure 15. Automobile Industry Examples

Figure 16. Aerospace Industry Examples

Figure 17. Others Examples

Figure 18. Global Single Channel Analog-to-Digital Converter Consumption Value, (USD Million): 2018 & 2022 & 2029

Figure 19. Global Single Channel Analog-to-Digital Converter Consumption Value and Forecast (2018-2029) & (USD Million)

Figure 20. Global Single Channel Analog-to-Digital Converter Sales Quantity (2018-2029) & (Units)

Figure 21. Global Single Channel Analog-to-Digital Converter Average Price (2018-2029) & (US\$/Unit)

Figure 22. Global Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Manufacturer in 2022

Figure 23. Global Single Channel Analog-to-Digital Converter Consumption Value Market Share by Manufacturer in 2022

Figure 24. Producer Shipments of Single Channel Analog-to-Digital Converter by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021

Figure 25. Top 3 Single Channel Analog-to-Digital Converter Manufacturer (Consumption Value) Market Share in 2022

Figure 26. Top 6 Single Channel Analog-to-Digital Converter Manufacturer (Consumption Value) Market Share in 2022

Figure 27. Global Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Region (2018-2029)

Figure 28. Global Single Channel Analog-to-Digital Converter Consumption Value Market Share by Region (2018-2029)

Figure 29. North America Single Channel Analog-to-Digital Converter Consumption Value (2018-2029) & (USD Million)

Figure 30. Europe Single Channel Analog-to-Digital Converter Consumption Value (2018-2029) & (USD Million)

Figure 31. Asia-Pacific Single Channel Analog-to-Digital Converter Consumption Value (2018-2029) & (USD Million)

Figure 32. South America Single Channel Analog-to-Digital Converter Consumption Value (2018-2029) & (USD Million)

Figure 33. Middle East & Africa Single Channel Analog-to-Digital Converter Consumption Value (2018-2029) & (USD Million)

Figure 34. Global Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Resolution (2018-2029)

Figure 35. Global Single Channel Analog-to-Digital Converter Consumption Value Market Share by Resolution (2018-2029)

Figure 36. Global Single Channel Analog-to-Digital Converter Average Price by Resolution (2018-2029) & (US\$/Unit)

Figure 37. Global Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Application (2018-2029)

Figure 38. Global Single Channel Analog-to-Digital Converter Consumption Value Market Share by Application (2018-2029)

Figure 39. Global Single Channel Analog-to-Digital Converter Average Price by Application (2018-2029) & (US\$/Unit)

Figure 40. North America Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Resolution (2018-2029)

Figure 41. North America Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Application (2018-2029)

Figure 42. North America Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Country (2018-2029)

Figure 43. North America Single Channel Analog-to-Digital Converter Consumption Value Market Share by Country (2018-2029)

Figure 44. United States Single Channel Analog-to-Digital Converter Consumption

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

Figure 45. Canada Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 46. Mexico Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. Europe Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Resolution (2018-2029)

Figure 48. Europe Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Application (2018-2029)

Figure 49. Europe Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Country (2018-2029)

Figure 50. Europe Single Channel Analog-to-Digital Converter Consumption Value Market Share by Country (2018-2029)

Figure 51. Germany Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 52. France Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 53. United Kingdom Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 54. Russia Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 55. Italy Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Resolution (2018-2029)

Figure 57. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Application (2018-2029)

Figure 58. Asia-Pacific Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Region (2018-2029)

Figure 59. Asia-Pacific Single Channel Analog-to-Digital Converter Consumption Value Market Share by Region (2018-2029)

Figure 60. China Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. Japan Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 62. Korea Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 63. India Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)



Figure 64. Southeast Asia Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 65. Australia Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 66. South America Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Resolution (2018-2029)

Figure 67. South America Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Application (2018-2029)

Figure 68. South America Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Country (2018-2029)

Figure 69. South America Single Channel Analog-to-Digital Converter Consumption Value Market Share by Country (2018-2029)

Figure 70. Brazil Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 71. Argentina Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 72. Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Resolution (2018-2029)

Figure 73. Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Application (2018-2029)

Figure 74. Middle East & Africa Single Channel Analog-to-Digital Converter Sales Quantity Market Share by Region (2018-2029)

Figure 75. Middle East & Africa Single Channel Analog-to-Digital Converter Consumption Value Market Share by Region (2018-2029)

Figure 76. Turkey Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 77. Egypt Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 78. Saudi Arabia Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 79. South Africa Single Channel Analog-to-Digital Converter Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 80. Single Channel Analog-to-Digital Converter Market Drivers

Figure 81. Single Channel Analog-to-Digital Converter Market Restraints

Figure 82. Single Channel Analog-to-Digital Converter Market Trends

Figure 83. Porters Five Forces Analysis

Figure 84. Manufacturing Cost Structure Analysis of Single Channel Analog-to-Digital Converter in 2022

Figure 85. Manufacturing Process Analysis of Single Channel Analog-to-Digital

## Converter

Figure 86. Single Channel Analog-to-Digital Converter Industrial Chain

Figure 87. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

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