

Analog-to-Digital Converters Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/A09FB32BB605EN.html>

Date: March 2023

Pages: 143

Price: US\$ 2,499.00 (Single User License)

ID: A09FB32BB605EN

Abstracts

The global analog-to-digital converters market size reached US\$ 2.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 3.5 Billion by 2028, exhibiting a growth rate (CAGR) of 5.01% during 2023-2028.

An analog-to-digital-converter (ADC) is an electronic circuit used to measure and convert an input analog signal to a digital form that can be read and processed by a microcontroller. It is widely utilized in control and monitoring systems and sensors to produce analog output voltages. Nowadays, manufacturers across the globe are offering precision devices with high speed and resolution in a range of packaging options for industrial, communication, enterprise, and personal electronics applications.

Analog-to-Digital Converters Market Trends:

The increasing number of mobile phone subscribers, in confluence with the rising popularity of music streaming services like Spotify, Apple Music, Amazon Music Unlimited and YouTube Music, represents one of the key factors bolstering the market growth. Moreover, ADC is used in digital oscilloscopes, which find extensive application in the automotive industry to troubleshoot inconsistencies and potential problems in the ignition system, solenoids, sensors, actuators and communication data stream. This, coupled with the escalating adoption of connected motorcycles due to the growing emphasis on driver safety and the increasing preferences for a comfortable and safe riding experience, is catalyzing the demand for oscilloscopes and ADC. Apart from this, it is incorporated in medical devices, such as magnetic resonance imaging (MRI) and x-ray, to convert images from analog to digital before alteration. In line with this, the emerging need for medical imaging techniques on account of the rising prevalence of chronic diseases is driving the application of ADC in the healthcare industry. Besides

this, the Fourth Industrial Revolution (Industry 4.0) emergence, along with the augmenting trend of precision manufacturing, is anticipated to catalyze the demand for ADC in industrial automation and offer lucrative growth opportunities to market players.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global analog-to-digital converters market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, resolution and application.

Breakup by Product Type:

- Pipelined ADC
- Integrating ADC
- Successive Approximation ADC
- Delta-Sigma ADC
- Others

Breakup by Resolution:

- 8-bit
- 10-bit
- 12-bit
- 14-bit
- 16-bit

Breakup by Application:

- Consumer Electronics
- IT and Telecommunication
- Automotive
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Advanced Micro Devices Inc., Analog Devices Inc., Asahi Kasei Corporation, Cirrus Logic Inc., Microchip Technology Inc., National Instruments Corporation, NXP Semiconductors N.V., onsemi, Renesas Electronics Corporation, Rohm Co. Ltd., STMicroelectronics and Texas Instruments Incorporated.

Key Questions Answered in This Report

1. What was the size of the global analog-to-digital converters market in 2022?
2. What is the expected growth rate of the global analog-to-digital converters market during 2023-2028?
3. What has been the impact of COVID-19 on the global analog-to-digital converters market?
4. What are the key factors driving the global analog-to-digital converters market?
5. What is the breakup of the global analog-to-digital converters market based on the product type?
6. What is the breakup of the global analog-to-digital converters market based on the

application?

7. What are the key regions in the global analog-to-digital converters market?

8. Who are the key players/companies in the global analog-to-digital converters market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL ANALOG-TO-DIGITAL CONVERTERS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT TYPE

- 6.1 Pipelined ADC
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Integrating ADC
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Successive Approximation ADC

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Delta-Sigma ADC
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Others
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY RESOLUTION

- 7.1 8-bit
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 10-bit
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 12-bit
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 14-bit
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 16-bit
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Consumer Electronics
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 IT and Telecommunication
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Automotive
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Others

8.4.1 Market Trends

8.4.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

- 9.3.2.1 Market Trends
- 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Advanced Micro Devices Inc.
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis
 - 14.3.2 Analog Devices Inc.
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.2.3 Financials
 - 14.3.2.4 SWOT Analysis
 - 14.3.3 Asahi Kasei Corporation
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.3.3 Financials
 - 14.3.3.4 SWOT Analysis
 - 14.3.4 Cirrus Logic Inc.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.4.4 SWOT Analysis

14.3.5 Microchip Technology Inc.

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.5.3 Financials

14.3.5.4 SWOT Analysis

14.3.6 National Instruments Corporation

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

14.3.6.3 Financials

14.3.6.4 SWOT Analysis

14.3.7 NXP Semiconductors N.V.

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.7.3 Financials

14.3.7.4 SWOT Analysis

14.3.8 onsemi

14.3.8.1 Company Overview

14.3.8.2 Product Portfolio

14.3.8.3 Financials

14.3.8.4 SWOT Analysis

14.3.9 Renesas Electronics Corporation

14.3.9.1 Company Overview

14.3.9.2 Product Portfolio

14.3.9.3 Financials

14.3.9.4 SWOT Analysis

14.3.10 Rohm Co. Ltd.

14.3.10.1 Company Overview

14.3.10.2 Product Portfolio

14.3.10.3 Financials

14.3.10.4 SWOT Analysis

14.3.11 STMicroelectronics

14.3.11.1 Company Overview

14.3.11.2 Product Portfolio

14.3.11.3 Financials

14.3.11.4 SWOT Analysis

14.3.12 Texas Instruments Incorporated

14.3.12.1 Company Overview

14.3.12.2 Product Portfolio

14.3.12.3 Financials

14.3.12.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Analog-to-Digital Converters Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Analog-to-Digital Converters Market Forecast: Breakup by Product Type (in Million US\$), 2023-2028

Table 3: Global: Analog-to-Digital Converters Market Forecast: Breakup by Resolution (in Million US\$), 2023-2028

Table 4: Global: Analog-to-Digital Converters Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Analog-to-Digital Converters Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Analog-to-Digital Converters Market: Competitive Structure

Table 7: Global: Analog-to-Digital Converters Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Analog-to-Digital Converters Market: Major Drivers and Challenges

Figure 2: Global: Analog-to-Digital Converters Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Analog-to-Digital Converters Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Analog-to-Digital Converters Market: Breakup by Product Type (in %), 2022

Figure 5: Global: Analog-to-Digital Converters Market: Breakup by Resolution (in %), 2022

Figure 6: Global: Analog-to-Digital Converters Market: Breakup by Application (in %), 2022

Figure 7: Global: Analog-to-Digital Converters Market: Breakup by Region (in %), 2022

Figure 8: Global: Analog-to-Digital Converters (Pipelined ADC) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Analog-to-Digital Converters (Pipelined ADC) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Analog-to-Digital Converters (Integrating ADC) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Analog-to-Digital Converters (Integrating ADC) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Analog-to-Digital Converters (Successive Approximation ADC) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Analog-to-Digital Converters (Successive Approximation ADC) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Analog-to-Digital Converters (Delta-Sigma ADC) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Analog-to-Digital Converters (Delta-Sigma ADC) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Analog-to-Digital Converters (Other Product Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Analog-to-Digital Converters (Other Product Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Analog-to-Digital Converters (8-bit) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Analog-to-Digital Converters (8-bit) Market Forecast: Sales Value (in

Million US\$), 2023-2028

Figure 20: Global: Analog-to-Digital Converters (10-bit) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Analog-to-Digital Converters (10-bit) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Analog-to-Digital Converters (12-bit) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Analog-to-Digital Converters (12-bit) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Analog-to-Digital Converters (14-bit) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Analog-to-Digital Converters (14-bit) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Analog-to-Digital Converters (16-bit) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Analog-to-Digital Converters (16-bit) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Analog-to-Digital Converters (Consumer Electronics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Analog-to-Digital Converters (Consumer Electronics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Analog-to-Digital Converters (IT and Telecommunication) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Analog-to-Digital Converters (IT and Telecommunication) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Analog-to-Digital Converters (Automotive) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Analog-to-Digital Converters (Automotive) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Analog-to-Digital Converters (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Global: Analog-to-Digital Converters (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: North America: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: North America: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: United States: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: United States: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Canada: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Canada: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: Asia-Pacific: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: Asia-Pacific: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: China: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: China: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Japan: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: Japan: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: India: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: India: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: South Korea: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: South Korea: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: Australia: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Australia: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: Indonesia: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Indonesia: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: Others: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Others: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Europe: Analog-to-Digital Converters Market: Sales Value (in Million US\$),

2017 & 2022

Figure 59: Europe: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Germany: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: Germany: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 62: France: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: France: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: United Kingdom: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: United Kingdom: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Italy: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Italy: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Spain: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Spain: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Russia: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Russia: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Others: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Others: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Latin America: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Latin America: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Brazil: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Brazil: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Mexico: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Mexico: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Others: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Others: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 82: Middle East and Africa: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2017 & 2022

Figure 83: Middle East and Africa: Analog-to-Digital Converters Market: Breakup by Country (in %), 2022

Figure 84: Middle East and Africa: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 85: Global: Analog-to-Digital Converters Industry: SWOT Analysis

Figure 86: Global: Analog-to-Digital Converters Industry: Value Chain Analysis

Figure 87: Global: Analog-to-Digital Converters Industry: Porter's Five Forces Analysis

I would like to order

Product name: Analog-to-Digital Converters Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/A09FB32BB605EN.html>

Price: US\$ 2,499.00 (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/A09FB32BB605EN.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

