

Analog-to-Digital Converters Market Report by Product Type (Pipelined ADC, Integrating ADC, Successive Approximation ADC, Delta-Sigma ADC, and Others), Resolution (8-Bit, 10-Bit, 12-Bit, 14-Bit, 16-Bit), Application (Consumer Electronics, IT and Telecommunication, Automotive, and Others), and Region 2024-2032

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Abstracts

The global analog-to-digital converters market size reached US\$ 2.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 4.0 Billion by 2032, exhibiting a growth rate (CAGR) of 4.5% during 2024-2032.

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 2024-2032. 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 2023?
2. What is the expected growth rate of the global analog-to-digital converters market during 2024-2032?

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, 2023 and 2032

Table 2: Global: Analog-to-Digital Converters Market Forecast: Breakup by Product Type (in Million US\$), 2024-2032

Table 3: Global: Analog-to-Digital Converters Market Forecast: Breakup by Resolution (in Million US\$), 2024-2032

Table 4: Global: Analog-to-Digital Converters Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: Analog-to-Digital Converters Market Forecast: Breakup by Region (in Million US\$), 2024-2032

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\$), 2018-2023

Figure 3: Global: Analog-to-Digital Converters Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Analog-to-Digital Converters Market: Breakup by Product Type (in %), 2023

Figure 5: Global: Analog-to-Digital Converters Market: Breakup by Resolution (in %), 2023

Figure 6: Global: Analog-to-Digital Converters Market: Breakup by Application (in %), 2023

Figure 7: Global: Analog-to-Digital Converters Market: Breakup by Region (in %), 2023

Figure 8: Global: Analog-to-Digital Converters (Pipelined ADC) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Analog-to-Digital Converters (Pipelined ADC) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Analog-to-Digital Converters (Integrating ADC) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Analog-to-Digital Converters (Integrating ADC) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Analog-to-Digital Converters (Successive Approximation ADC) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Analog-to-Digital Converters (Successive Approximation ADC) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Analog-to-Digital Converters (Delta-Sigma ADC) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Analog-to-Digital Converters (Delta-Sigma ADC) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Analog-to-Digital Converters (Other Product Types) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Analog-to-Digital Converters (Other Product Types) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Analog-to-Digital Converters (8-bit) Market: Sales Value (in Million US\$), 2018 & 2023

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

Million US\$), 2024-2032

Figure 20: Global: Analog-to-Digital Converters (10-bit) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Analog-to-Digital Converters (10-bit) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: Global: Analog-to-Digital Converters (12-bit) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Analog-to-Digital Converters (12-bit) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Analog-to-Digital Converters (14-bit) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Analog-to-Digital Converters (14-bit) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Analog-to-Digital Converters (16-bit) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Analog-to-Digital Converters (16-bit) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Analog-to-Digital Converters (Consumer Electronics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Analog-to-Digital Converters (Consumer Electronics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Analog-to-Digital Converters (IT and Telecommunication) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Analog-to-Digital Converters (IT and Telecommunication) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: Analog-to-Digital Converters (Automotive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: Analog-to-Digital Converters (Automotive) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: Analog-to-Digital Converters (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: Analog-to-Digital Converters (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: North America: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: North America: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: United States: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: United States: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: Canada: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: Canada: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: Asia-Pacific: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: Asia-Pacific: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: China: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: China: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Japan: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Japan: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: India: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: India: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: South Korea: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: South Korea: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: Australia: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: Australia: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: Indonesia: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: Indonesia: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: Others: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Others: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

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

2018 & 2023

Figure 59: Europe: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Germany: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Germany: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: France: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: France: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: United Kingdom: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: United Kingdom: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 66: Italy: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: Italy: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: Spain: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Spain: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Russia: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Russia: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 72: Others: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Others: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 74: Latin America: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 75: Latin America: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: Brazil: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 77: Brazil: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 78: Mexico: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 79: Mexico: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 80: Others: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 81: Others: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 82: Middle East and Africa: Analog-to-Digital Converters Market: Sales Value (in Million US\$), 2018 & 2023

Figure 83: Middle East and Africa: Analog-to-Digital Converters Market: Breakup by Country (in %), 2023

Figure 84: Middle East and Africa: Analog-to-Digital Converters Market Forecast: Sales Value (in Million US\$), 2024-2032

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

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