

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?

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