

North America Analog to Digital Converter Market Forecast to 2030 - Regional Analysis - by Type (Integrating Analog to Digital Converters, Delta-Sigma Analog to Digital Converters, Successive Approximation Analog to Digital Converters, Ramp Analog to Digital Converters, and Others), Resolution (8-Bit, 10-Bit, 12-Bit, 14-Bit, 16-Bit, and Others), and Application (Industrial, Consumer Electronics, Automotive, Healthcare, Telecommunication, and Others)

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Abstracts

The North America analog to digital converter market was valued at US\$ 1,334.91 million in 2022 and is expected to reach US\$ 2,089.64 million by 2030; it is estimated to register a CAGR of 5.8% from 2022 to 2030.

Rising Demand for High-Resolution Images in Scientific and Medical Applications Fuels North America Analog to Digital Converter Market

In scientific and medical fields, accurate diagnosis relies on high-quality images captured through CT scans, X-rays, MRI scans, and other advanced imaging technologies. To store these images in a digital format, analog to digital converters (ADCs) are required to convert the analog signals from the imaging devices into digital data. The medical industry has experienced notable progress in imaging technology, leading to a growing need for digital image acquisition and processing. Analog to digital converters play a vital role in the networked imaging systems that facilitate the digital imaging process. Specialized high-speed data converters are necessary for the analog to digital conversion of images. The converters work in conjunction with amplifiers,

interfaces, power management tools, digital signal processors, microprocessors, and microcontrollers to ensure accurate and efficient conversion. Datel (UK) is a reputable provider of analog to digital converters specifically designed for the medical industry. Their solutions offer high-resolution capabilities, undergo rigorous testing, and provide comprehensive package solutions. Therefore, rising demand for high-resolution images in scientific and medical applications drives the growth of the North America analog to digital converter market.

North America Analog to Digital Converter Market Overview

The North America analog to digital converter market is segmented into the US, Canada, and Mexico. The US held the largest share of the North America analog to digital converter market in 2022. The country is home to major market players such as Analog Devices, Inc.; Cirrus Logic, Inc.; Microchip Technology, Inc.; and Texas Instruments Incorporated. The US is a manufacturing, IT, and automotive hub, among other sectors that require technologically advanced solutions for precision and accuracy in production and other processes. The Bipartisan Infrastructure Law, signed by US President Biden, is a once-in-a-generation investment in the infrastructure of the US. The projected rise in the telecom infrastructure with such initiatives further fuels the adoption of ADCs in North America. The US and Canada are among the region's most advanced countries as they are at the forefront of adopting technologies in almost all sectors. The US, Canada, and Mexico are the major contributors to the North America analog-to-digital market. The accessibility to efficient infrastructure in these developed countries has facilitated the manufacturers to exploit the limits of technology, science, and commerce. The US is a developed country in terms of the adoption of modern technologies, a high standard of living, and advanced infrastructure. Technological advancements in the region have led to a highly competitive market. It also attracts several technological developments involving economically robust countries. Companies operating in this region are continuously enhancing the overall business processes to meet the customers' demand for high-quality products and services efficiently. The region is well-known for the advanced semiconductor manufacturing industry. Advanced semiconductors have transformed many industries and sectors, such as aerospace and automotive. GlobalFoundries has stepped forward to make sizable investments in the North America semiconductor industry. Such investments would enable ADC chip manufacturers to expand their production capacity in the region. Moreover, with the introduction of new wireless technologies such as 5G, demand for ADC is projected to grow rapidly in the coming years. The roll-out of 5G communication in the region is anticipated to nurture the scope of ADC. The growing urbanization and rising disposable income have been the major enablers of the proliferation of the electronics industry. According to the US Bureau of Economic Analysis, in March 2023, disposable personal income (DPI) in the US rose by 0.5% in February 2023 compared

to January 2023. The growth in people's disposable income contributes to the strong purchasing power, bolstering the sales of television sets, microwaves, and other consumer electronics, which further drives the North America analog to digital converter market.

North America Analog to Digital Converter Market Revenue and Forecast to 2030 (US\$ Million)

North America Analog to Digital Converter Market Segmentation

The North America analog to digital converter market is categorized into type, resolution, application, and country.

Based on type, the North America analog to digital converter market is segmented into integrating ADC, delta- sigma ADC, ramp ADC, successive approximation ADC, and others. The others segment held the largest market share in 2022.

In terms of resolution, the North America analog to digital converter market is categorized into 8-bit, 10-bit, 12-bit, 14-bit, 16-bit, and others. The 12-bit segment held the largest market share in 2022.

By application, the North America analog to digital converter market is segmented into industrial, consumer electronics, automotive, healthcare, telecommunication, and others. The industrial segment held the largest market share in 2022.

By country, the North America analog to digital converter market is segmented into the US, Canada, and Mexico. The US dominated the North America analog to digital converter market share in 2022.

Analog Devices Inc; Asahi Kasei Corp; Cirrus Logic, Inc.; Microchip Technology Inc; Renesas Electronics Corp; ROHM Co Ltd; Semiconductor Components Industries, LLC (On semiconductor); STMicroelectronics NV; Teledyne Technologies Inc; and Texas Instruments Inc are among the leading companies operating in the North America analog to digital converter market.

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