

# **Europe 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 Europe analog to digital converter market was valued at US\$ 910.62 million in 2022 and is expected to reach US\$ 1,394.83 million by 2030; it is estimated to register a CAGR of 5.5% from 2022 to 2030.

**Rising Developments in Automotive Industry Drive Europe Analog to Digital Converter Market**

The global automotive industry is experiencing a strong demand for smart devices in vehicles, leading automakers to prioritize innovation and development of autonomous cars. The advanced vehicles have garnered significant interest from consumers in major automotive manufacturing countries. Autonomous cars rely heavily on advanced technologies for their functionality, which can propel the demand for analog to digital converters.

Technological advancements, consumer acceptance of self-driving vehicles, competitive pricing, and the ability of suppliers and original equipment manufacturers (OEMs) to address safety concerns boost the adoption of fully autonomous cars. In response to these factors, the automotive and semiconductor industries are focused on enhancing technologies, optimizing raw material costs, and integrating robust

technologies into vehicles. This drive for improvement ensures the future performance and success of driverless cars. The integration of advanced analog to digital converter technology in autonomous cars will play a crucial role in enabling accurate data acquisition and processing, facilitating the smooth functioning of various vehicle systems. As the automotive industry continues to advance toward smart and fully autonomous vehicles, the Europe analog to digital converter market is expected to witness lucrative opportunities in the coming years.

#### Europe Analog to Digital Converter Market Overview

The Europe analog to digital converter market is segmented into Germany, France, Italy, Russia, the UK, and the Rest of Europe. Aerospace, machinery & equipment, automotive, shipbuilding, and automotive vehicles, among others, are the major industries in Europe. Germany, Italy, and Spain are the potential growth markets for the variety of electronic integrations by the automotive giants present in the region. Automotive is considered to be a crucial industry in the European Union (EU) as it contributes a significant share of the total GDP of the region. EU is the leading producer of motor vehicles, with several premium automotive manufacturers based in the region, having their production plants in over 27 countries along with 322 vehicle assembly plants across Europe. Moreover, the industry successfully delivers European products across the globe. A growing automotive electronics industry and rapid inclination of automotive manufacturers to include electronics integrations to support the emergence of autonomous driving and advanced driver assist systems (ADAS), drives the Europe analog to digital converter market growth. Several other steps taken by the automotive companies would help to stimulate LiDAR among self-driving cars. ADC for LiDAR helps in enabling ADAS systems. ADCs play a major role in telematics systems vehicles as they are integrated into OBD devices that convert the analog signals received from environmental phenomena into digital signal. Rising demand for telematics, as well as other advanced automotive and related products, has resulted in a higher demand for ADCs. The ADCs have applications in wireless transceivers, which facilitate communication between automobiles or between an automobile and the fixed network. Therefore, the booming automotive industry in the region provides huge growth opportunities to ADC manufacturers. The European Union also supports the development of several technological solutions in Europe with research and innovation actions under the Horizon 2020 program, Digital Europe Program (DIGITAL). European Union-funded projects accelerate the adoption of digital solutions among businesses to foster their business growth. Thus, favorable government initiatives and increasing digitization are the key factors enhancing the implementation of digital solutions in Europe, which further fuels the Europe analog to digital converter market for applications in several industries.

#### Europe Analog to Digital Converter Market Revenue and Forecast to 2030 (US\$ Million)

## Europe Analog to Digital Converter Market Segmentation

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

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

In terms of resolution, the Europe 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 Europe analog to digital converter market is segmented into industrial, consumer electronics, automotive, healthcare, telecommunication, and others. The industrial segment held a larger market share in 2022.

By country, the Europe analog to digital converter market is segmented into Germany, the UK, France, Italy, Russia, and the Rest of Europe. The Rest of Europe dominated the Europe 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 Europe analog to digital converter market.

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