

# **Middle East & Africa 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 Middle East & Africa analog to digital converter market was valued at US\$ 123.24 million in 2022 and is expected to reach US\$ 200.72 million by 2030; it is estimated to register a CAGR of 6.3% from 2022 to 2030.

### **Growth of 5G in Developing Economies Bolsters Middle East & Africa Analog to Digital Converter Market**

Numerous countries have actively pursued the healthy evolution of 5G technology with global announcements and recognition of potential benefits of the technology. Major global players have also engaged in extensive research, development, and innovation to advance the capabilities of 5G on a global scale. 5G is widely acknowledged as a transformative technological advancement that can seamlessly connect consumers' physical, virtual, and social worlds. This digital transformation presents significant business opportunities across various industry verticals while also necessitating

changes to existing business models and environments.

Governments of developing economies worldwide have recognized the immense potential of 5G and its impact on their respective countries' GDP. They anticipate substantial job creation and positive economic growth through the digitalization of businesses. Governments of the Middle East & African countries, particularly the Saudi Arabian government, are strategically prioritizing the development of 5G technology. This focus aligns with their plans to build robust economies, as outlined in the VISION 2030 initiative. The global pursuit of 5G technology presents significant business opportunities for various countries and industries. Governments across the globe are actively investing in partnerships, research, and development to harness the potential of 5G and drive economic growth, job creation, and digital transformation within their respective nations.

#### Middle East & Africa Analog to Digital Converter Market Overview

The Middle East & Africa analog to digital converter market is segmented into South Africa, Saudi Arabia, and the UAE. The region comprises several oil & gas refineries, which account for a significant portion of the region's GDP. The region is expected to witness a rapid increase in commercialization and industrialization, which would further boost varied industrial sectors.

Governments of the Middle East & Africa are making constant investments in the semiconductor industry, which further fuels the semiconductor laser products such as the laser diode market. Under the Economic Vision 2030 plan, the UAE invests in the semiconductor industry to become a tech leader. In addition, players in the industry are expanding their businesses, contributing to the semiconductor industry's growth. In May 2022, a joint venture between Abu Dhabi-based Next Orbit Ventures and Israel's Tower Semiconductor announced an investment of US\$ 3 billion in the development of a chip-making plant in India. This expansion of plants will contribute to the company's revenue and propel the overall semiconductor industry of the region. In February 2023, Oman hosted the World Semiconductor and Chip Summit in the country where Oman, Saudi Arabia, and the UAE committed to increasing their investments in chip manufacturing. Thus, strategic initiatives by countries in the MEA will propel the semiconductor industry, further fueling the demand for semiconductor products such as ADC-used to convert an analog signal into a digital code.

A few prominent industries across the region are consumer electronics, semiconductors, automotive, and telecommunications. The growing automotive industry

in the Middle East & Africa propels the demand for ADC for sensor applications. According to the Managing Director of Nissan Middle East, in March 2022, Nissan Middle East reported a 9.9% sales increase across the Gulf in the first three quarters of 2021 compared to 2020. Thus, rising sales of automotive vehicles fuel the demand for ADC. With the introduction of automobiles integrated with advanced systems, demand for ADC in LiDAR, telematics systems, and others would also grow. The positive outlook of the automotive industry in the region is expected to provide huge growth opportunities to the manufacturers of ADC.

5G is further anticipated to become a reality in the Middle East & Africa post the successful completion of the first implementable release named Release 15 5G New Radio (NR) specifications. The UAE, Saudi Arabia, Kuwait, and Qatar are leading the technological investments and commercial deployments of 5G networks in the MEA through various strategic partnerships formed between the telecommunication service providers and the network infrastructure providers. For instance, Etisalat projects to make significant investments for the introduction of 5G network base stations in the UAE. The company, in 2019, rolled out a broadcasted 5G network across more than 1,000 new base stations across the UAE. The rising focus of telecom operators toward the commercialization of 5G plays a greater role in accelerating the business of ADC products as high-speed data converters.

Middle East & Africa Analog to Digital Converter Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Analog to Digital Converter Market Segmentation

The Middle East & Africa analog to digital converter market is categorized into type, resolution, application, and country.

Based on type, the Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa analog to digital converter market is segmented into Saudi Arabia, the UAE, South Africa, and the Rest of Middle East & Africa. Saudi Arabia dominated the Middle East & Africa analog to digital converter market share in 2022.

Analog Devices Inc, Asahi Kasei Corp, Renesas Electronics Corp, STMicroelectronics NV, Teledyne Technologies Inc, and Texas Instruments Inc are among the leading companies operating in the Middle East & Africa analog to digital converter market.

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