

Asia Pacific Data Converter Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Type (DAC and ADC), Sampling Rates (High Speed Converters and General/Low Speed Converters), Application (Medical, Industrial, Communications, Consumer Electronics, Automotive, and Others), Resolution (10-14 bit, Above 14-20 bit, and Above 20 bit), and Rate of Converter (Below 100Msps, 100-500Msps, Above 500Msps-1Gsps, and Above 1Gsps-3Gsps)

Market Report | 2022-11-11 | 171 pages | The Insight Partners

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- Single User Price \$3000.00
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Report description:

The data converter in Asia Pacific is expected to grow from US\$ 1,572.83 million in 2022 to US\$ 2,813.74 million by 2028. It is estimated to grow at a CAGR of 10.2% from 2022 to 2028.

Flourishing Automotive Industry

The demand for vehicles such as passenger cars, buses, trucks, and EVs is increasing continuously across the region. India, and China (BRIC), and other developing countries are promoting research and development for greener vehicles and fuels. In addition, the demand for the car equipped with radar distance control, voice-activated controls, Bluetooth connections with smartphones (for ease of communication), and CD players is on the rise. Data converters (both ADCs and DACs) are required for the manufacturing of all these components and vehicles. In April 2022, Tata Motors in India announced its plan to invest US\$ 3.08 billion in its passenger vehicle business over the next five years. In March 2022, MG Motors announced its plan to invest US\$ 350-500 million in private equity in India, which includes the expansion of EV manufacturing capacities. Such investments by automakers and governments to boost the automotive sector are likely to bring opportunities for the growth of the data converter

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market players during the forecast period.

Market Overview

The Asia Pacific data converter market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. The rising use of data converters for wireless communications and the growing demand for communications systems and consumer equipment in countries, including China, Japan, and India, drive the market growth. The growing adoption of 5G communication is proving to be a potent driver for the continued technological innovations in the semiconductor industry. The Analog Front-End (AFE) and the RF architectures are expected to evolve more to enable 5G. Also, high-speed analog-to-digital converters (ADCs) and digital-to-analog converters (DACs) with high-resolution and low-power are becoming available for System on a Chip (SoC) integration. The data converters support the channel bandwidth and open the doors for the generalization of RF architectures, which can potentially reduce the complexity of the RF circuitry. Thus, the rising telecommunication industry in Asia Pacific would boost the data converter market in the region during the forecast period.

Asia Pacific Data Converter Market Revenue and Forecast to 2028 (US\$ Million)

Asia Pacific Data Converter Market Segmentation

The Asia Pacific data converter Market is segmented into type, sampling rates, application, resolution, rate of converter and country.

Based on type, the market is segmented into DAC and ADC. The ADC segment registered the larger market share in 2022. Based on sampling rates, the market is segmented into high speed converters and general/low speed converters. The high speed converters segment held the larger market share in 2022. Based on application, the market is segmented into medical, industrial, communications, consumer electronics, automotive, and others. The consumer electronics segment held the larger market share in 2022. Based on resolution, the market is segmented into 10-14 bit, above 14-20 bit, and above 20 bit. The 10-14 bit segment held the larger market share in 2022. Based on rate of converter, the market is segmented into Below 100Msps, 100-500Msps, Above 500Msps-1Gsps, and Above 1Gsps-3Gsps. The Below 100Msps segment held the larger market share in 2022. Based on country, the market is segmented into Australia, China, India, Japan, South Korea and Rest of Asia Pacific. China dominated the market share in 2022. Analog Devices, Inc.; Microchip Technology Inc.; NXP Semiconductors; Renesas Electronics Corporation; ROHM CO., LTD.; STMicroelectronics; Synopsys, Inc.; Texas Instruments Incorporated; Omni Design Technologies, Inc. and ON Semiconductor Corporation are the leading companies operating in the data converter in the region.

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