

Global Data Converters Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Data Converters market size was valued at USD 4231.9 million in 2023 and is forecast to a readjusted size of USD 5608.6 million by 2030 with a CAGR of 4.1% during review period.

Analog-to-Digital Converters(ADC) is an electronic integrated circuit which transforms a signal from analog (continuous) to digital (discrete) form. ADC provides a link between the analog world of transducers and the digital world of signal processing and data handling. ADC is used virtually everywhere where an analog signal has to be processed, stored, or transported in digital form. Some examples of ADC usage are digital volt meters, cell phone, thermocouples, and digital oscilloscope. Digital-to-Analog Converters(DAC) is an electronic integrated circuit which transforms a signal from digital (discrete) to analog (continuous) form.

Market Drivers

Increasing Demand for High-Speed and High-Resolution Data Conversion: With the proliferation of digital devices, the need for high-speed and high-resolution data conversion has grown significantly. Data converters play a crucial role in converting analog signals to digital signals and vice versa with high accuracy and speed. This is particularly important in applications such as telecommunications, wireless communication, data centers, and industrial automation.

Growing Internet of Things (IoT) Market: The rapid expansion of the Internet of Things (IoT) has fueled the demand for data converters. IoT devices rely on data converters to interface with the physical world, converting sensor data into digital signals for



processing and analysis. As the number of connected devices continues to increase, the demand for data converters to handle the data generated by these devices also rises.

Advancements in Wireless Communication Technologies: The development of advanced wireless communication technologies, such as 5G and Wi-Fi 6 (802.11ax), requires high-performance data converters. These converters are essential for converting signals between analog and digital domains in wireless transceivers, base stations, and other communication infrastructure. The ongoing deployment of 5G networks and the continuous evolution of wireless standards drive the demand for data converters with improved performance.

Market Trends

Increasing Demand for High-Speed Data Converters: As the demand for higher data rates and bandwidth continues to rise, there is a growing need for high-speed data converters. This trend is driven by applications such as 5G communication, high-definition video streaming, and data centers that require faster and more efficient data conversion capabilities.

Adoption of Higher Resolution Converters: The demand for higher resolution data converters is increasing across various industries. This trend is driven by applications in fields such as medical imaging, test and measurement equipment, and audio/video systems that require greater accuracy and precision in signal conversion.

Integration of Analog-to-Digital and Digital-to-Analog Converters: There is a growing trend towards integrating analog-to-digital converters (ADCs) and digital-to-analog converters (DACs) into a single chip or module. This integration offers benefits such as reduced board space, simplified design, and improved system performance. It is particularly relevant in applications where compactness and cost-effectiveness are important, such as portable devices and IoT sensors.

The Global Info Research report includes an overview of the development of the Data Converters industry chain, the market status of Consumer Electronics (ADC, DAC), Communications (ADC, DAC), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Data Converters.

Regionally, the report analyzes the Data Converters markets in key regions. North



America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Data Converters market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Data Converters market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Data Converters industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., ADC, DAC).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Data Converters market.

Regional Analysis: The report involves examining the Data Converters market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Data Converters market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Data Converters:

Company Analysis: Report covers individual Data Converters manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and



attitudes towards Data Converters This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Communications).

Technology Analysis: Report covers specific technologies relevant to Data Converters. It assesses the current state, advancements, and potential future developments in Data Converters areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Data Converters market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Automotive

Industrials

Data Converters market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

ADC

DAC

Market segment by Application

Consumer Electronics

Communications



Major players covered		
	ADI	
	ТІ	
	Maxim	
	Intersil	
	STM	
	Onsemi	
	Microchip	
	NXP	
	Cirrus Logic	
	XILINX	
Market segment by region, regional analysis covers		
	North America (United States, Canada and Mexico)	
	Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)	
	Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)	
	South America (Brazil, Argentina, Colombia, and Rest of South America)	
	Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)	

The content of the study subjects, includes a total of 15 chapters:



Chapter 1, to describe Data Converters product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Converters, with price, sales, revenue and global market share of Data Converters from 2019 to 2024.

Chapter 3, the Data Converters competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Converters breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and Data Converters market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Data Converters.

Chapter 14 and 15, to describe Data Converters sales channel, distributors, customers, research findings and conclusion.



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