

Global Sigma Delta Analog-to-Digital Converters (ADC) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Sigma Delta Analog-to-Digital Converters (ADC) market size was valued at US\$ 696 million in 2025 and is forecast to a readjusted size of US\$ 1342 million by 2032 with a CAGR of 9.6% during review period.

Sigma-Delta analog-to-digital converters (ADC) are analog-to-digital converters based on oversampling and noise shaping techniques. They convert analog signals into high-resolution digital bitstreams through a combination of a high-frequency one-bit modulator and a digital decimation filter. Structurally, Sigma-Delta ADCs can be categorized into standalone high-precision ADCs, analog front-end SoCs (such as metering AFEs integrating multiple Sigma-Delta channels), isolated Sigma-Delta modulators, and multi-channel measurement ADCs. Sigma-Delta ADC combinations cover industrial control, medical, and test and measurement scenarios.

In 2025, global Sigma Delta Analog-to-Digital Converters (ADC) sales reached approximately 19,042 K Units, with an average global market price of around 35.53 US\$/Unit. Production capacity reached 22,000 K Units, with a gross profit margin of approximately 60%.

From a driving force perspective, the rapid increase in global demand for precision sensing and smart metering has directly amplified the demand for high-resolution, low-noise Sigma-Delta ADCs. Microchip explicitly states in its power metering product specifications that its ATSENSE and MCP3x6x series utilize multi-channel Sigma-Delta ADCs to support high-precision voltage and current acquisition, targeting smart meters, factory automation, and process control. Industrial automation, medical, and scientific

instruments place increasingly stringent demands on long-term stability and system-level accuracy. Monolithic Power Systems points out that high-resolution Delta-Sigma ADCs have become core components in industrial instrumentation, scientific testing, temperature and pressure measurement, and other applications with extremely high reliability and accuracy requirements. The low-power trend in IoT and wearable devices is creating new growth opportunities for low-power Sigma-Delta ADCs for biomedical and edge sensing applications. Recent research on low-power, high-resolution Sigma-Delta ADCs for biomedical IoT further confirms the suitability of this architecture for high-precision, low-power scenarios.

This report is a detailed and comprehensive analysis for global Sigma Delta Analog-to-Digital Converters (ADC) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Sigma Delta Analog-to-Digital Converters (ADC) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Sigma Delta Analog-to-Digital Converters (ADC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Sigma Delta Analog-to-Digital Converters (ADC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Sigma Delta Analog-to-Digital Converters (ADC) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Sigma Delta Analog-to-Digital Converters (ADC)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Sigma Delta Analog-to-Digital Converters (ADC) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Texas Instruments, Microchip Technology, Monolithic Power Systems, Analog Devices, Cirrus Logic, Shenzhen Chipsea Technologies, SG Micro, Hangzhou Ruimeng Technology, GigaDevice Semiconductor, Xiamen Pengpai Microelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Sigma Delta Analog-to-Digital Converters (ADC) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

24-Bit

16-Bit

32-Bit

Others

Market segment by Application

Industrial

Automobile

Electronic

Communication

Aviation

Others

Major players covered

Texas Instruments

Microchip Technology

Monolithic Power Systems

Analog Devices

Cirrus Logic

Shenzhen Chipsea Technologies

SG Micro

Hangzhou Ruimeng Technology

GigaDevice Semiconductor

Xiamen Pengpai Microelectronics

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 Sigma Delta Analog-to-Digital Converters (ADC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Sigma Delta Analog-to-Digital Converters (ADC), with price, sales quantity, revenue, and global market share of Sigma Delta Analog-to-Digital Converters (ADC) from 2021 to 2026.

Chapter 3, the Sigma Delta Analog-to-Digital Converters (ADC) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Sigma Delta Analog-to-Digital Converters (ADC) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Sigma Delta Analog-to-Digital Converters (ADC) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Sigma Delta Analog-to-Digital Converters (ADC).

Chapter 14 and 15, to describe Sigma Delta Analog-to-Digital Converters (ADC) sales channel, distributors, customers, research findings and conclusion.

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