

Global Sigma Delta Analog-to-Digital Converters (ADC) Market Growth 2026-2032

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Abstracts

The global Sigma Delta Analog-to-Digital Converters (ADC) market size is predicted to grow from US\$ 662 million in 2025 to US\$ 1318 million in 2032; it is expected to grow at a CAGR of 10.2% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Sigma Delta Analog-to-Digital Converters (ADC) Industry Forecast" looks at past sales and reviews total world Sigma Delta Analog-to-Digital Converters (ADC) sales in 2025, providing a comprehensive analysis by region and market sector of projected Sigma Delta Analog-to-Digital Converters (ADC) sales for 2026 through 2032. With Sigma Delta Analog-to-Digital Converters (ADC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Sigma Delta Analog-to-Digital Converters (ADC) industry.

This Insight Report provides a comprehensive analysis of the global Sigma Delta Analog-to-Digital Converters (ADC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Sigma Delta Analog-to-Digital Converters (ADC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Sigma Delta Analog-to-Digital Converters (ADC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Sigma Delta Analog-to-Digital Converters (ADC) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Sigma Delta Analog-to-Digital Converters (ADC).

This report presents a comprehensive overview, market shares, and growth opportunities of Sigma Delta Analog-to-Digital Converters (ADC) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

24-Bit

16-Bit

32-Bit

Others

Segmentation by Application:

Industrial

Automobile

Electronic

Communication

Aviation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Texas Instruments

Microchip Technology

Monolithic Power Systems

Analog Devices

Cirrus Logic

Shenzhen Chipsea Technologies

SG Micro

Hangzhou Ruimeng Technology

GigaDevice Semiconductor

Xiamen Pengpai Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Sigma Delta Analog-to-Digital Converters (ADC) market?

What factors are driving Sigma Delta Analog-to-Digital Converters (ADC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Sigma Delta Analog-to-Digital Converters (ADC) market opportunities vary by end market size?

How does Sigma Delta Analog-to-Digital Converters (ADC) break out by Type, by Application?

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