

Global Sigma Delta Analog-to-Digital Converters (ADC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sigma Delta Analog-to-Digital Converters (ADC) market size is expected to reach \$ 1342 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global Sigma Delta Analog-to-Digital Converters (ADC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sigma Delta Analog-to-Digital Converters (ADC) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Sigma Delta Analog-to-Digital Converters (ADC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sigma Delta Analog-to-Digital Converters (ADC) total production and demand, 2021-2032, (K Units)

Global Sigma Delta Analog-to-Digital Converters (ADC) total production value, 2021-2032, (USD Million)

Global Sigma Delta Analog-to-Digital Converters (ADC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Sigma Delta Analog-to-Digital Converters (ADC) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Sigma Delta Analog-to-Digital Converters (ADC) domestic production, consumption, key domestic manufacturers and share

Global Sigma Delta Analog-to-Digital Converters (ADC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Sigma Delta Analog-to-Digital Converters (ADC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Sigma Delta Analog-to-Digital Converters (ADC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Sigma Delta Analog-to-Digital Converters (ADC) market based on the following parameters - company overview, production,

value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Sigma Delta Analog-to-Digital Converters (ADC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Sigma Delta Analog-to-Digital Converters (ADC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sigma Delta Analog-to-Digital Converters (ADC) Market, Segmentation by Type:

24-Bit

16-Bit

32-Bit

Others

Global Sigma Delta Analog-to-Digital Converters (ADC) Market, Segmentation by Application:

Industrial

Automobile

Electronic

Communication

Aviation

Others

Companies Profiled:

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 Answered:

1. How big is the global Sigma Delta Analog-to-Digital Converters (ADC) market?
2. What is the demand of the global Sigma Delta Analog-to-Digital Converters (ADC) market?
3. What is the year over year growth of the global Sigma Delta Analog-to-Digital Converters (ADC) market?
4. What is the production and production value of the global Sigma Delta Analog-to-Digital Converters (ADC) market?
5. Who are the key producers in the global Sigma Delta Analog-to-Digital Converters (ADC) market?
6. What are the growth factors driving the market demand?

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