

Global Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter market size was valued at US\$ 115 million in 2025 and is forecast to a readjusted size of US\$ 189 million by 2032 with a CAGR of 7.4% during review period.

In 2025, global aerospace-grade digital-to-analog converter production capacity is 900,000 units, with production reached approximately 622,000 units, with an average global market price of around US\$ 180 per unit. The market gross margin is mainly 40%-55%. Space-grade digital-to-analog converters (DACs) are ultra-high-reliability, ultra-high-precision mixed-signal integrated circuits designed specifically for aerospace and space applications to meet the extreme environmental requirements. Their core function is to convert analog signals from sensors (such as star sensors, gyroscopes, and scientific payload data) into digital signals with high fidelity for onboard computer processing, or to precisely convert digital commands into analog signals to control actuators (such as thrusters and antennas) in the extreme conditions of space (such as vacuum, radiation, and extreme temperature fluctuations). They must pass the most stringent screening and certifications (such as MIL-PRF-38535 and QML-V) and feature radiation hardening, extreme temperature resistance, a long lifespan (>15 years), and fault tolerance. They serve as the 'intelligent sensor and neural hub' for stable on-orbit operation of spacecraft. By 2025, production of space-grade DACs is expected to reach approximately 560,000 units, with an average global market price of approximately US\$200 per unit. The upstream of the industry chain comprises radiation-hardened semiconductor materials and specialty wafer manufacturing. The midstream comprises IDM giants with radiation-hardened design and packaging capabilities. The downstream market comprises satellite, spacecraft, and defense system integrators. Production

capacity is extremely low, with multiple small batches and lengthy production cycles. Gross profit margins, often exceeding 60%, are driven by extremely high technical barriers, lengthy certification cycles, and stringent reliability requirements.

The aerospace-grade digital-to-analog converter market is an ultra-reliable sector driven by cutting-edge technology and national strategy. Its development closely tracks global space exploration investment and defense modernization. Future prospects are underpinned by low-orbit constellation deployments, deep space exploration, and avionics upgrades, placing uncompromising demands on chips' radiation resistance, long lifespan, and adaptability to extreme environments. The North American market, with its massive defense budget, leading system integrators, and extensive aerospace technology ecosystem, maintains a dominant position in both technological and high-end demand markets. Europe, through multinational joint R&D institutions and leading companies such as Airbus, maintains a significant technological voice and market influence in global collaborative projects. The Asia-Pacific region is emerging as a dynamic strategic force. Its unwavering space ambitions and national policy support are accelerating the maturity of its domestic supply chain and the advancement of its technological capabilities.

This report is a detailed and comprehensive analysis for global Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter
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 Aerospace-Grade Digital-To-Analog Converter 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 Analog Devices, Texas Instruments, STMicroelectronics, Renesas Electronics, ROHM Semiconductor, Microchip, Data Device Corporation, Xi an Aerosemi Technology, Teledyne e2v, Frontgrade, etc.

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

Market Segmentation

Aerospace-Grade Digital-To-Analog Converter 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

Low-Resolution DAC (?12-bit)

Medium-Resolution DAC (14–16-bit)

High-Resolution DAC (?18-bit)

Market segment by Speed

Low-Speed DAC

High-Speed DAC

Ultra-High-Speed DAC (GSPS?)

Market segment by Radiation Hardening Level

Radiation-Tolerant DAC

Radiation-Hardened DAC

Market segment by Application

Civilian Aircraft

Military Aircraft

Satellite

Others

Major players covered

Analog Devices

Texas Instruments

STMicroelectronics

Renesas Electronics

ROHM Semiconductor

Microchip

Data Device Corporation

Xi an Aerosemi Technology

Teledyne e2v

Frontgrade

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 Aerospace-Grade Digital-To-Analog Converter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aerospace-Grade Digital-To-Analog Converter, with price, sales quantity, revenue, and global market share of Aerospace-Grade Digital-To-Analog Converter from 2021 to 2026.

Chapter 3, the Aerospace-Grade Digital-To-Analog Converter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter.

Chapter 14 and 15, to describe Aerospace-Grade Digital-To-Analog Converter sales channel, distributors, customers, research findings and conclusion.

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