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Global Aerospace-Grade Digital-To-Analog Converter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aerospace-Grade Digital-To-Analog Converter market size is expected to reach $ 189 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

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

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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 studies the global Aerospace-Grade Digital-To-Analog Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aerospace-Grade Digital-To-Analog Converter total production and demand, 2021-2032, (K Units)

Global Aerospace-Grade Digital-To-Analog Converter total production value, 2021-2032, (USD Million)

Global Aerospace-Grade Digital-To-Analog Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

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Global Aerospace-Grade Digital-To-Analog Converter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Aerospace-Grade Digital-To-Analog Converter domestic production, consumption, key domestic manufacturers and share

Global Aerospace-Grade Digital-To-Analog Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Aerospace-Grade Digital-To-Analog Converter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Aerospace-Grade Digital-To-Analog Converter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Aerospace-Grade Digital-To-Analog Converter 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aerospace-Grade Digital-To-Analog Converter 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 Aerospace-Grade Digital-To-Analog Converter Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerospace-Grade Digital-To-Analog Converter Market, Segmentation by Type:

Low-Resolution DAC (?12-bit)

Medium-Resolution DAC (14–16-bit)

High-Resolution DAC (?18-bit)

Global Aerospace-Grade Digital-To-Analog Converter Market, Segmentation by Speed:

Low-Speed DAC

High-Speed DAC

Ultra-High-Speed DAC (GSPS?)

Global Aerospace-Grade Digital-To-Analog Converter Market, Segmentation by Radiation Hardening Level:

Radiation-Tolerant DAC

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Radiation-Hardened DAC

Global Aerospace-Grade Digital-To-Analog Converter Market, Segmentation by Application:

Civilian Aircraft

Military Aircraft

Satellite

Others

Companies Profiled:

Analog Devices

Texas Instruments

STMicroelectronics

Renesas Electronics

ROHM Semiconductor

Microchip

Data Device Corporation

Xi an Aerosemi Technology

Teledyne e2v

Frontgrade

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Key Questions Answered:

1. How big is the global Aerospace-Grade Digital-To-Analog Converter market?
2. What is the demand of the global Aerospace-Grade Digital-To-Analog Converter market?
3. What is the year over year growth of the global Aerospace-Grade Digital-To-Analog Converter market?
4. What is the production and production value of the global Aerospace-Grade Digital-To-Analog Converter market?
5. Who are the key producers in the global Aerospace-Grade Digital-To-Analog Converter market?
6. What are the growth factors driving the market demand?

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