

ADC & DAC In Quantum Computing Market Size, Share & Trends Analysis Report By Type (Digital-to-Analog Converters, Analog-to-Digital Converters), By Architecture, By Qubit Type, By Application Layer, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

ADC & DAC In Quantum Computing Market Summary

The global ADC & DAC in quantum computing market size was estimated at USD 36,803.3 thousand in 2024 and is projected to reach USD 206,635.0 thousand by 2030, growing at a CAGR of 34.5% from 2025 to 2030. The growth of analog-to-digital converters (ADCs) and digital-to-analog converters (DACs) in quantum computing is driven by the need for high-fidelity, low-noise, and high-speed analog types that enable precise qubit control and measurement.

Advances in ADC technology have led to converters with high resolution and sensitivity, crucial for reading weak qubit signals and enabling error correction. Similarly, DACs have evolved to provide faster sampling rates and higher resolution for accurate quantum gate operations.

The demand for ADCs and DACs in quantum systems differs from their use in traditional electronics. Quantum computing requires converters with very high resolution, low noise, fast sampling speeds, and excellent phase stability. These features ensure that signals sent to and received from qubits are clear and precise, which is essential for high-fidelity quantum operations. The market is driven by the increasing number of qubits in modern processors and the shift toward more scalable and error-corrected systems. Companies working on quantum hardware are actively seeking converter solutions that can meet system-level requirements, including

integration with FPGAs, support for cryogenic environments, and reliable synchronization. As a result, ADC and DAC vendors are innovating to fulfill these unique technical demands.

Although still a niche market, the ADC & DAC segment in quantum computing is expected to grow steadily as the broader quantum industry expands. Governments, research institutions, and private companies are investing heavily in quantum technologies, which increases the demand for high-quality signal converters. The market presents long-term opportunities for semiconductor manufacturers who can deliver performance, reliability, and integration support. Strategic partnerships between quantum hardware developers and electronics companies are already forming to co-develop suitable converter systems. As the focus shifts from prototypes to commercial quantum computers, this converter market is becoming increasingly important.

Global ADC & DAC In Quantum Computing Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2017 to 2030. For this study, Grand View Research has segmented the global ADC & DAC in quantum computing market report based on the type, architecture, qubit type, application layer, and region.

Type Outlook (Revenue, USD Thousand, 2017 - 2030)

Digital-to-Analog Converters (DAC)

Analog-to-Digital Converters (ADC)

Architecture Outlook (Revenue, USD Thousand, 2017 - 2030)

Successive Approximation Register (SAR)

Sigma-delta

Pipeline

Flash

Hybrid & Custom Architectures

Qubit Type Outlook (Revenue, USD Thousand, 2017 - 2030)

Superconducting Qubits

Trapped-Ion Qubits

Spin Qubits (e.g., quantum dots)

Flash

Topological and Other Experimental Qubits

Application Layer Outlook (Revenue, USD Thousand, 2017 - 2030)

Qubit Actuation and Control

Qubit Response and Readout

Error Correction and Feedback Systems

Regional Outlook (Revenue, USD Thousand, 2017 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

Australia

South Korea

Latin America

Brazil

MEA

UAE

South Africa

KSA

This report can be delivered to the clients within 2 Business Days

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