

Global Qubit Control and Readout Chip 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 Qubit Control and Readout Chip market size was valued at US\$ 165 million in 2025 and is forecast to a readjusted size of US\$ 39512 million by 2032 with a CAGR of 143.5% during review period.

Qubit control and readout chips are specialized integrated circuits and semiconductor devices used for qubit manipulation, microwave pulse generation, low temperature signal acquisition, quantum state readout, and feedback control in quantum computing systems. The industry primarily covers superconducting qubits, silicon spin qubits, trapped ion qubits, neutral atom qubits, and other emerging quantum architectures. These chips are generally developed using cryogenic CMOS processes, single flux quantum logic, mixed signal microwave control architectures, low noise RF semiconductor technologies, and ultra low temperature electronic integration techniques to enable high fidelity qubit control, low latency feedback, scalable multi channel readout, and energy efficient quantum signal processing under cryogenic operating conditions. Major product formats include quantum control ASICs, qubit readout ICs, cryogenic control SoCs, quantum RF control chips, and low temperature interface ICs. Key technical specifications include operating temperature range, qubit scalability, noise performance, sampling speed, synchronization accuracy, readout fidelity, and power consumption efficiency. These chips are mainly deployed in quantum computers, national quantum laboratories, cloud quantum computing platforms, quantum algorithm validation systems, and next generation high performance computing infrastructures. In 2025, the global qubit control and readout chip industry recorded an average gross margin of approximately 45 percent to 68 percent, while the average selling price of major control units was approximately USD 8,000 to USD 120,000 per unit.

The upstream segment of the quantum bit measurement and control chip industry includes semiconductor materials, superconducting materials, RF components, and EDA software suppliers. The midstream segment consists of chip design and manufacturing companies. The downstream segment serves quantum computer system integrators, national quantum laboratories, and quantum cloud platforms. Chip level products occupy the core position in the quantum computing value chain, with their performance directly determining qubit control fidelity and system scalability. The industry currently remains in the early transition stage from laboratory research to commercial deployment. Participants include chip design startups, in house divisions of quantum computing system manufacturers, and new business lines from traditional semiconductor companies, reflecting that unified technical standards and dominant players have yet to emerge. Global investment in quantum computing continues accelerating, with major countries incorporating quantum technology into national strategies and demanding indigenous control chip capabilities. European and American companies maintain leading positions in both superconducting and silicon based pathways due to first mover advantages. Chinese teams are rapidly catching up in recent years, making substantial progress in cryogenic CMOS and superconducting SFQ logic. Multiple next generation control chips have been launched, supporting higher qubit counts and lower latency real time feedback, with some products entering system level integration validation. Merger, acquisition, and financing activities remain robust, with capital heavily focused on control chips as a critical bottleneck. In the coming years, the measurement and control chip industry will benefit from steadily increasing quantum computer system shipments. Higher qubit integration levels demand continuous breakthroughs in channel density, power consumption control, and cryogenic reliability, with chip system co design capabilities becoming a core competitive barrier. As quantum cloud services advance commercially, scaled deployment imposes new requirements for system miniaturization and cost control, driving measurement and control chips toward higher integration and lower cost structures. The boundary between in house development and external procurement among system manufacturers remains dynamic. Independent chip suppliers that deliver superior performance and cost relative to internal solutions still have opportunities to capture meaningful market share. The pace of measurement and control chip breakthroughs directly impacts whether quantum computing industrialization can proceed as anticipated, with this highly coupled development dynamic set to continue over the next five to ten years.

This report is a detailed and comprehensive analysis for global Qubit Control and Readout Chip market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Operating Temperature 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 Qubit Control and Readout Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Qubit Control and Readout Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Qubit Control and Readout Chip market size and forecasts, by Operating Temperature and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Qubit Control and Readout Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Qubit Control and Readout Chip

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 Qubit Control and Readout Chip 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 SEEQC Inc., Intel Corporation, Qblox

B.V., Quantum Machines, Zurich Instruments AG, Equal1 Labs, Diraq Pty Ltd, Keysight Technologies, Inc., Origin Quantum, QuantumCTek Co., Ltd., etc.

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

Market Segmentation

Qubit Control and Readout Chip market is split by Operating Temperature and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Operating Temperature, 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 Operating Temperature

Room Temperature Quantum Control Chips (Above 273K)

Cryogenic Quantum Control Chips (4K-77K)

Deep Cryogenic Quantum Control Chips (Below 4K)

Others

Market segment by Packaging Form

Standard Semiconductor Packaging

Cryogenic Compatible Packaging

RF Optimized Packaging

3D Integrated Packaging

Chiplet Packaging

Others

Market segment by Application

Superconducting Quantum Computing Systems

Silicon Spin Quantum Computing Systems

Trapped Ion Quantum Computing Systems

Neutral Atom Quantum Computing Systems

Photonic Quantum Computing Systems

Quantum Cloud Computing Platforms

Others

Major players covered

SEEQC Inc.

Intel Corporation

Qblox B.V.

Quantum Machines

Zurich Instruments AG

Equal1 Labs

Dirac Pty Ltd

Keysight Technologies, Inc.

Origin Quantum

QuantumCTek Co., Ltd.

SpinQ Technology Inc.

Quantum Circuits Inc.

Rigetti Computing, Inc.

IBM Corporation

Google Quantum AI

Anyon Technologies

Bluefors Oy

Oxford Instruments plc

QuEra Computing Inc.

Silicon Quantum Computing Pty Ltd

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 Qubit Control and Readout Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Qubit Control and Readout Chip, with price, sales quantity, revenue, and global market share of Qubit Control and Readout Chip from 2021 to 2026.

Chapter 3, the Qubit Control and Readout Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Qubit Control and Readout Chip 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 Operating Temperature and by Application, with sales market share and growth rate by Operating Temperature, 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 Qubit Control and Readout Chip market forecast, by regions, by Operating Temperature, 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 Qubit Control and Readout Chip.

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