

Global Quantum Control System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quantum Control System market size is expected to reach \$ 458 million by 2032, rising at a market growth of 14.4% CAGR during the forecast period (2026-2032).

Quantum technology can be divided into three categories from an application perspective: computation, communication, and encryption. Precision measurement mainly focuses on the direction of quantum computing. As the number of qubits increases, quantum computing power grows exponentially, far exceeding the exponential growth of traditional computer systems. Among them, superconducting quantum can run relatively faster and easily form quantum computers with larger bit counts.

Quantum technology is based on quantum mechanics, which utilizes physical phenomena such as quantum entanglement and quantum superposition to observe and precisely manipulate microscopic particle systems and their quantum states. It mainly includes three major fields: quantum computing, quantum communication, and quantum precision measurement.

Quantum computing is a computational model that utilizes the principles of quantum mechanics for information processing. By utilizing the principle of quantum superposition, quantum computers can perform calculations for specific problems much faster than traditional computers in certain situations. Quantum computing mainly includes five technical routes: superconductivity, ion traps, optical quanta, semiconductor quantum dots, and neutral atoms. Among them, superconductive quantum computing is the most mature and widely studied implementation method, and the fastest progressing solution internationally.

A quantum computer consists of two main parts: hardware and software. The hardware structure of quantum computing can be divided into four levels: The 'quantum data layer' where quantum bits are located; A 'control and measurement layer' that operates and measures quanta as needed; The 'control processor layer' which determines operations and algorithm sequences; The 'main processor layer' used to handle network access to large storage arrays and user interfaces, which is connected to the control processor through high-speed broadband.

Quantum control system (QCS) mainly refers to the equipment that controls, measures, reads and feedbacks the results of quantum bits in real-time during the quantum computing process, also known as quantum computing measurement and control system. No matter how the volume and shape of quantum computers change, measurement and control systems will exist.

The application process of quantum control system in superconducting quantum computing is as follows: the measurement and control equipment can accept the gate circuit formula input of quantum computing, convert it into the RF waveform output (XY line) and magnetic flux output (Z line) of controlling superconducting quantum bits, achieve the purpose of manipulating quantum bits, and collect the state results of quantum bits through the measurement and control equipment. Based on the judgment results, the next calculation process is further completed.

In the quantum computing equipment industry, the core components mainly include cryogenic equipment, control systems, coaxial cables, cryogenic components, UHV cavities, lasers, single photon sources, and single photon detectors. In terms of enterprises, quantum computing equipment suppliers are mainly international companies, especially dilution refrigerants and cryogenic coaxial cables. In the quantum control system market, Chinese local companies have already occupied a certain market share, such as QuantumCTek Co., Ltd, Chengdu ZWDX, Beijing Naishu, Shenzhen SpinQ Technology, and Origin Quantum Computing Technology (Hefei) Co., Ltd. The control systems of these companies are not much different from those of international leading companies in terms of product performance, and may even reach a higher level. The major global manufacturers of Quantum Control System include Zurich Instruments (R&S), Keysight Technologies, Quantum Machines, QuantumCTek Co., Ltd, and Chengdu ZWDX etc. In 2025, the world's top three vendors accounted for approximately 75.34% of the revenue.

The current quantum control systems are mainly aimed at superconducting and semiconductor qubits. Other systems such as ion traps and neutral atoms can achieve

qubit control and measurement through lasers. As the number of qubits increases, quantum control suppliers have launched systems that can meet the control of 100 qubits or less. In the future, control systems that can meet the control of more than 100 or even 1,000 bits will become the mainstream trend.

This report studies the global Quantum Control System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quantum Control System 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 Quantum Control System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quantum Control System total production and demand, 2021-2032, (Units)

Global Quantum Control System total production value, 2021-2032, (USD Million)

Global Quantum Control System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Quantum Control System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Quantum Control System domestic production, consumption, key domestic manufacturers and share

Global Quantum Control System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Quantum Control System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Quantum Control System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Quantum Control System 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 Zurich Instruments (R&S), Keysight Technologies, Quantum Machines, QuantumCTek Co., Ltd, Chengdu ZWDX, SDT Inc, Qblox, Beijing Naishu, Shenzhen SpinQ Technology, Origin Quantum, 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 Quantum Control System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Quantum Control System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Control System Market, Segmentation by Type:

Below 100 Qubit

Above 100 Qubit

Global Quantum Control System Market, Segmentation by Channel:

Low Channel

High Channel

Ultra-high Channel

Global Quantum Control System Market, Segmentation by Application:

Enterprise

Scientific Research

Companies Profiled:

Zurich Instruments (R&S)

Keysight Technologies

Quantum Machines

QuantumCTek Co., Ltd

Chengdu ZWDX

SDT Inc

Qblox

Beijing Naishu

Shenzhen SpinQ Technology

Origin Quantum

Key Questions Answered:

1. How big is the global Quantum Control System market?

2. What is the demand of the global Quantum Control System market?
3. What is the year over year growth of the global Quantum Control System market?
4. What is the production and production value of the global Quantum Control System market?
5. Who are the key producers in the global Quantum Control System market?
6. What are the growth factors driving the market demand?

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