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

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Abstracts

The global Quantum Computing Measurement and Control System market size is expected to reach $ 6152 million by 2032, rising at a market growth of 19.6% CAGR during the forecast period (2026-2032).

A quantum computing measurement and control system is a system specifically designed for controlling and measuring qubits, aiming to achieve precise control and accurate measurement of quantum states and quantum operations during quantum computing. This system typically consists of hardware devices, software control, and data acquisition, providing crucial technical support for the research and development of quantum computers.

The quantum computing measurement and control system is a critical infrastructure for the operation of quantum computers. Its industrial chain mainly includes three segments: upstream core electronic components and basic equipment, midstream quantum measurement and control system integration and software platforms, and downstream quantum computing applications and research institutions. The upstream mainly involves core hardware such as high-speed arbitrary waveform generators (AWGs), radio frequency signal sources, microwave devices, high-speed ADCs/DACs, FPGA control boards, cryogenic electronic equipment, and precision clock synchronization modules. The midstream consists of quantum computing measurement and control system manufacturers, who integrate hardware and software to form qubit control and readout platforms, including quantum control electronics, timing control systems, quantum measurement and control software, and automatic calibration algorithms. The downstream mainly consists of quantum computer research institutions, research institutes, cloud quantum computing platforms, and large technology

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companies, used for experimental and commercial applications such as superconducting quantum computing and ion trap quantum computing. In terms of overall gross profit margin, upstream high-end electronic instrument and core chip manufacturers generally have a gross profit margin of about 30%?50%, midstream quantum measurement and control system integrators typically have a gross profit margin of 50%?70% due to higher technological barriers, while downstream system integration and project implementation services have relatively lower gross profit margins, generally about 20%?35%. Overall, the value of the industry chain is mainly concentrated in the high-precision electronic measurement and control hardware and quantum control software algorithm segments.

The development of quantum computing measurement and control systems represents an important step towards the practical application of quantum computing technology. By precisely controlling and measuring the state of qubits, these systems provide critical infrastructure for quantum computing and provide important support as we enter the era of quantum computing. With the continuous advancement of quantum computing technology, quantum computing measurement and control systems will become a key engine to promote the widespread development of quantum computing applications, bringing us new solutions to many complex problems that traditional computers cannot cope with.

This report studies the global Quantum Computing Measurement and Control System demand, key companies, and key regions.

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

Highlights and key features of the study

Global Quantum Computing Measurement and Control System total market, 2021-2032, (USD Million)

Global Quantum Computing Measurement and Control System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Quantum Computing Measurement and Control System total market, key domestic companies, and share, (USD Million)

Global Quantum Computing Measurement and Control System revenue by player,

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revenue and market share 2021-2026, (USD Million)
Global Quantum Computing Measurement and Control System total market by Type, CAGR, 2021-2032, (USD Million)
Global Quantum Computing Measurement and Control System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Quantum Computing Measurement and Control System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include IBM, Rigetti Computing, D-Wave Systems, Honeywell, IonQ, Keysight Technologies, Quantum Machines, Zurich Instruments, Rohde & Schwarz, National Instruments, 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 Computing Measurement and Control System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, 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 Computing Measurement and Control System Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global Quantum Computing Measurement and Control System Market, Segmentation by Type:

Cloud Based

On-Premises

Global Quantum Computing Measurement and Control System Market, Segmentation by Quantum Computing Technology Roadmap:

Superconducting Qubit Control System

Trapped-Ion Control System

Photonic Quantum Control System

Others

Global Quantum Computing Measurement and Control System Market, Segmentation by System Functions:

Qubit Control System

Qubit Readout System

Global Quantum Computing Measurement and Control System Market, Segmentation by Application:

Large Enterprise

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Medium-Sized Enterprise

Small Companies

Companies Profiled:

IBM

Rigetti Computing

D-Wave Systems

Honeywell

IonQ

Keysight Technologies

Quantum Machines

Zurich Instruments

Rohde & Schwarz

National Instruments

Tektronix

Qblox

QuEL

Key Questions Answered

1. How big is the global Quantum Computing Measurement and Control System market?
2. What is the demand of the global Quantum Computing Measurement and Control

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System market?
3. What is the year over year growth of the global Quantum Computing Measurement and Control System market?
4. What is the total value of the global Quantum Computing Measurement and Control System market?
5. Who are the Major Players in the global Quantum Computing Measurement and Control System market?
6. What are the growth factors driving the market demand?

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