

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

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Abstracts

The global Quantum Computing market size is expected to reach \$ 7958 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

Quantum Computing, this branch of computer science is based on the principles of the superposition of matter and quantum entanglement and uses a different computation method from the traditional one. In theory, it would be able to store many more states per unit of information and operate with much more efficient algorithms at the numerical level, such as Shor's or quantum annealing. The Quantum Computing market covers Hardware, Software, etc. The typical players include D-Wave Solutions, IBM, Google, etc. The quantum computing industry chain consists of upstream enabling materials and equipment, midstream quantum computing systems, and downstream applications. Upstream segments include superconducting materials, photonic components, and cryogenic systems, which form the technological foundation. Downstream applications span finance, pharmaceuticals, industrial optimization, and cybersecurity. The industry is characterized by high entry barriers upstream, intense technological competition in the midstream, and early-stage exploration in downstream applications.

The quantum computing market is transitioning from a research-driven phase to early commercialization. While the current market size remains in the low-billion-dollar range, strong government funding, increasing investment, and active participation from major technology companies are expected to drive a CAGR exceeding 30% over the next decade. The market is currently dominated by hardware investments, particularly in quantum processors and cryogenic systems, while software platforms and quantum cloud services are emerging as key commercialization pathways. Early applications are concentrated in finance, pharmaceuticals, and materials science, with large-scale adoption dependent on breakthroughs in fault-tolerant quantum computing.

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

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

Highlights and key features of the study

Global Quantum Computing total market, 2021-2032, (USD Million)

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

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

Global Quantum Computing revenue by player, revenue and market share 2021-2026, (USD Million)

Global Quantum Computing total market by Type, CAGR, 2021-2032, (USD Million)

Global Quantum Computing total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Quantum Computing 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 D-Wave Solutions, IBM, ColdQuanta, Google, Microsoft, Rigetti Computing, 1QBit, Intel, Xanadu Quantum Technologies, Cambridge Quantum Computing Limited, 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 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 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Computing Market, Segmentation by Type:

Hardware

Software

Cloud Service

Global Quantum Computing Market, Segmentation by Technical Route:

Superconducting Quantum

Ion Trap

Photonic Quantum

Others

Global Quantum Computing Market, Segmentation by Computing Paradigm:

Gate-based Quantum Computing

Quantum Annealing

Quantum Simulation

Global Quantum Computing Market, Segmentation by Deployment Model:

On-premise Quantum Systems

Cloud-based Quantum Computing

Hybrid Quantum-Classical

Global Quantum Computing Market, Segmentation by Application:

Finance

Medical

Chemistry

Transportation

Manufacturing

Others

Companies Profiled:

D-Wave Solutions

IBM

ColdQuanta

Google

Microsoft

Rigetti Computing

1QBit

Intel

Xanadu Quantum Technologies

Cambridge Quantum Computing Limited

Honeywell

Zapata Computing

Origin Quantum Computing Technology

Fujitsu

QC Ware

Anyon Systems Inc.

IonQ

QRA Corp

QxBranch, Inc.

Quantum Circuits, Inc.

Amazon

PsiQuantum

Classiq

Baidu

Alibaba Cloud

Key Questions Answered

1. How big is the global Quantum Computing market?
2. What is the demand of the global Quantum Computing market?
3. What is the year over year growth of the global Quantum Computing market?
4. What is the total value of the global Quantum Computing market?
5. Who are the Major Players in the global Quantum Computing market?
6. What are the growth factors driving the market demand?

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