

# Global Quantum Computing Software Market to Reach USD 2.09 Billion by 2032

<https://marketpublishers.com/r/G20ACBC56128EN.html>

Date: March 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: G20ACBC56128EN

## Abstracts

The Global Quantum Computing Software Market was valued at approximately USD 0.19 billion in 2023 and is projected to expand at an exceptional CAGR of 30.50% over the forecast period from 2024 to 2032. The rapid evolution of quantum computing technologies is significantly altering the landscape of software development, enabling enterprises to tackle complex computational problems with unprecedented efficiency. As businesses strive to enhance data processing capabilities and optimize operations, the demand for quantum computing software solutions is surging. This technology is poised to revolutionize industries by offering unparalleled processing power for intricate tasks such as risk analysis, cryptography, drug discovery, and logistics optimization. The acceleration of investments in quantum research and development, along with government-backed initiatives supporting quantum computing innovation, is fueling market expansion.

The proliferation of cloud-based quantum solutions is a key driver, providing organizations with scalable and cost-effective access to quantum computing capabilities. As more enterprises recognize the transformative potential of quantum computing, major technology providers are heavily investing in quantum algorithms and software development. In sectors like BFSI and healthcare, quantum computing is being leveraged for enhanced data security, complex financial modeling, and precision-driven medical research. However, challenges such as hardware limitations, high costs associated with quantum adoption, and the need for specialized talent to develop and maintain quantum software solutions pose obstacles to widespread implementation.

Regionally, North America dominates the global quantum computing software market due to significant government and private sector investments in quantum research. The United States is leading the charge with extensive R&D initiatives, collaborations

between academia and enterprises, and strategic funding aimed at advancing quantum technologies. Europe follows closely, with key players actively engaging in quantum research consortia to foster technological advancements. The Asia-Pacific region is expected to experience the fastest growth, fueled by strong government backing in China, Japan, and South Korea, along with increasing adoption in industrial and research applications. Meanwhile, emerging markets in Latin America and the Middle East & Africa are gradually exploring quantum computing's potential, primarily driven by growing investments in technology infrastructure and innovation.

#### Major Market Players Included in This Report:

IBM Corporation

Google LLC (Alphabet Inc.)

Microsoft Corporation

D-Wave Systems Inc.

Rigetti Computing

Honeywell International Inc.

Intel Corporation

Amazon Web Services, Inc.

QC Ware Corp.

Zapata Computing

Cambridge Quantum Computing Ltd.

Atos SE

IonQ, Inc.

Xanadu Quantum Technologies Inc.

Fujitsu Ltd.

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Component:

Software

Services

By Deployment Mode:

Cloud

On-Premises

By Organization Size:

Small & Medium Enterprises (SMEs)

Large Enterprises

By Technology:

Quantum Annealing

Superconducting Qubits

Trapped Ions

Topological Qubits

Others

### By Application:

Optimization

Simulation

Machine Learning

Cryptography

Others

### By Vertical:

BFSI

Government

Healthcare & Pharmaceuticals

Aerospace & Defense

IT & Telecommunications

Energy & Utilities

Others

### By Region:

#### North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America:

Brazil

Mexico

Rest of Latin America

## Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

## Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

## Key Takeaways:

Market estimates & forecasts for 10 years (2022-2032).

Annualized revenue projections and regional-level analysis for each market segment.

In-depth examination of the geographical landscape with country-level insights into major regions.

Competitive landscape assessment with intelligence on key market players and their strategies.

Analysis of industry drivers, restraints, opportunities, and challenges affecting market growth.

Demand-side and supply-side analysis of the quantum computing software ecosystem.

## Contents

### **CHAPTER 1.GLOBAL QUANTUM COMPUTING SOFTWARE MARKET EXECUTIVE SUMMARY**

- 1.1.Global Quantum Computing Software Market Size & Forecast (2022-2032)
- 1.2.Regional Summary
- 1.3.Segmental Summary
  - 1.3.1.{By Component}
  - 1.3.2.{By Deployment Mode}
  - 1.3.3.{By Organization Size}
  - 1.3.4.{By Technology}
  - 1.3.5.{By Application}
  - 1.3.6.{By Vertical}
- 1.4.Key Trends
- 1.5.Recession Impact
- 1.6.Analyst Recommendation & Conclusion

### **CHAPTER 2.GLOBAL QUANTUM COMPUTING SOFTWARE MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1.Research Objective
- 2.2.Market Definition
- 2.3.Research Assumptions
  - 2.3.1.Inclusion & Exclusion
  - 2.3.2.Limitations
  - 2.3.3.Supply Side Analysis
    - 2.3.3.1.Availability
    - 2.3.3.2.Infrastructure
    - 2.3.3.3.Regulatory Environment
    - 2.3.3.4.Market Competition
    - 2.3.3.5.Economic Viability (Consumer's Perspective)
  - 2.3.4.Demand Side Analysis
    - 2.3.4.1.Regulatory Frameworks
    - 2.3.4.2.Technological Advancements
    - 2.3.4.3.Environmental Considerations
    - 2.3.4.4.Consumer Awareness & Acceptance
- 2.4.Estimation Methodology
- 2.5.Years Considered for the Study

## 2.6.Currency Conversion Rates

## **CHAPTER 3.GLOBAL QUANTUM COMPUTING SOFTWARE MARKET DYNAMICS**

### 3.1.Market Drivers

- 3.1.1.Rapid Evolution of Quantum Computing Technologies
- 3.1.2.Proliferation of Cloud-based Quantum Solutions
- 3.1.3.Increased Investments & Government Initiatives

### 3.2.Market Challenges

- 3.2.1.Hardware Limitations
- 3.2.2.High Costs of Quantum Adoption
- 3.2.3.Shortage of Specialized Talent

### 3.3.Market Opportunities

- 3.3.1.Enhanced Data Processing & Optimization
- 3.3.2.Advancements in Risk Analysis & Cryptography
- 3.3.3.Expansion in BFSI, Healthcare & Other Verticals

## **CHAPTER 4.GLOBAL QUANTUM COMPUTING SOFTWARE MARKET INDUSTRY ANALYSIS**

### 4.1.Porter's 5 Force Model

- 4.1.1.Bargaining Power of Suppliers
- 4.1.2.Bargaining Power of Buyers
- 4.1.3.Threat of New Entrants
- 4.1.4.Threat of Substitutes
- 4.1.5.Competitive Rivalry
- 4.1.6.Futuristic Approach to Porter's 5 Force Model
- 4.1.7.Porter's 5 Force Impact Analysis

### 4.2.PESTEL Analysis

- 4.2.1.Political
- 4.2.2.Economical
- 4.2.3.Social
- 4.2.4.Technological
- 4.2.5.Environmental
- 4.2.6.Legal

### 4.3.Top Investment Opportunity

### 4.4.Top Winning Strategies

### 4.5.Disruptive Trends

### 4.6.Industry Expert Perspective



#### 4.7. Analyst Recommendation & Conclusion

### **CHAPTER 5. GLOBAL QUANTUM COMPUTING SOFTWARE MARKET SIZE & FORECASTS BY COMPONENT 2022-2032**

#### 5.1. Segment Dashboard

#### 5.2. Global Quantum Computing Software Market: {Component} Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

##### 5.2.1. Software

##### 5.2.2. Services

### **CHAPTER 6. GLOBAL QUANTUM COMPUTING SOFTWARE MARKET SIZE & FORECASTS BY DEPLOYMENT MODE 2022-2032**

#### 6.1. Segment Dashboard

#### 6.2. Global Quantum Computing Software Market: {Deployment Mode} Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

##### 6.2.1. Cloud

##### 6.2.2. On-Premises

### **CHAPTER 7. GLOBAL QUANTUM COMPUTING SOFTWARE MARKET SIZE & FORECASTS BY REGION 2022-2032**

#### 7.1. North America Market

##### 7.1.1. U.S. Market

##### 7.1.1.1. {Segment} breakdown size & forecasts, 2022-2032

##### 7.1.1.2. {Vertical} breakdown size & forecasts, 2022-2032

##### 7.1.2. Canada Market

#### 7.2. Europe Market

##### 7.2.1. U.K. Market

##### 7.2.2. Germany Market

##### 7.2.3. France Market

##### 7.2.4. Spain Market

##### 7.2.5. Italy Market

##### 7.2.6. Rest of Europe Market

#### 7.3. Asia-Pacific Market

##### 7.3.1. China Market

##### 7.3.2. India Market

##### 7.3.3. Japan Market

- 7.3.4.Australia Market
- 7.3.5.South Korea Market
- 7.3.6.Rest of Asia-Pacific Market
- 7.4.Latin America Market
  - 7.4.1.Brazil Market
  - 7.4.2.Mexico Market
  - 7.4.3.Rest of Latin America Market
- 7.5.Middle East & Africa Market
  - 7.5.1.Saudi Arabia Market
  - 7.5.2.South Africa Market
  - 7.5.3.Rest of Middle East & Africa Market

## **CHAPTER 8.COMPETITIVE INTELLIGENCE**

- 8.1.Key Company SWOT Analysis
  - 8.1.1.IBM Corporation
  - 8.1.2.Google LLC (Alphabet Inc.)
  - 8.1.3.Microsoft Corporation
- 8.2.Top Market Strategies
- 8.3.Company Profiles
  - 8.3.1.IBM Corporation
    - 8.3.1.1.Key Information
    - 8.3.1.2.Overview
    - 8.3.1.3.Financial (Subject to Data Availability)
    - 8.3.1.4.Product Summary
    - 8.3.1.5.Market Strategies
  - 8.3.2.Google LLC (Alphabet Inc.)
  - 8.3.3.Microsoft Corporation
  - 8.3.4.D-Wave Systems Inc.
  - 8.3.5.Rigetti Computing
  - 8.3.6.Honeywell International Inc.
  - 8.3.7.Intel Corporation
  - 8.3.8.Amazon Web Services, Inc.
  - 8.3.9.QC Ware Corp.
  - 8.3.10.Zapata Computing
  - 8.3.11.Cambridge Quantum Computing Ltd.
  - 8.3.12.Atos SE
  - 8.3.13.IonQ, Inc.
  - 8.3.14.Xanadu Quantum Technologies Inc.

8.3.15.Fujitsu Ltd.

## **CHAPTER 9.RESEARCH PROCESS**

9.1.Research Process

9.1.1.Data Mining

9.1.2.Analysis

9.1.3.Market Estimation

9.1.4.Validation

9.1.5.Publishing

9.2.Research Attributes

## I would like to order

Product name: Global Quantum Computing Software Market to Reach USD 2.09 Billion by 2032

Product link: <https://marketpublishers.com/r/G20ACBC56128EN.html>

Price: US\$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G20ACBC56128EN.html>