

# **Enterprise Quantum Computing Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Hardware, Software, Services), By Deployment Mode (On-Premise, Cloud), By Technology, By Application, By Industry Vertical**

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## **Abstracts**

The Enterprise Quantum Computing Market is valued at USD 5.7 billion in 2025 and is projected to grow at a CAGR of 23% to reach USD 36.8 billion by 2034.

Market Overview: Enterprise Quantum Computing Market

The enterprise quantum computing market is emerging as a key component of the next-generation computing revolution, with organizations across industries looking to leverage quantum technology for solving complex problems that traditional computers cannot efficiently address. Quantum computing harnesses the principles of quantum mechanics to perform calculations at speeds unimaginable by classical computing systems. Enterprises are particularly interested in its potential applications in fields such as cryptography, optimization, artificial intelligence (AI), material science, and drug discovery. As a result, major technology companies, startups, and academic institutions are heavily investing in quantum research and development. The market is still in its early stages, but the growing demand for faster and more powerful computing capabilities is driving rapid advancements. Cloud-based quantum computing services are also gaining traction, enabling businesses to access quantum resources without the need for in-house hardware. The potential to solve real-world problems, reduce costs, and open new avenues for innovation makes quantum computing highly attractive to enterprises, signaling a transformative shift in the technology landscape. The enterprise quantum computing market witnessed significant progress, with advancements in both hardware and software paving the way for more practical applications. The development

of quantum processors with higher qubit counts, improved error correction algorithms, and more stable quantum states significantly enhanced computational capabilities. Tech giants like IBM, Google, and Microsoft made notable strides in advancing quantum cloud platforms, offering quantum-as-a-service models that allowed enterprises to access quantum computing resources remotely. Additionally, governments and research institutions increased funding for quantum initiatives, creating favorable environments for startups to innovate. Key sectors such as pharmaceuticals, finance, and logistics began experimenting with quantum algorithms to optimize operations, perform risk analysis, and enhance decision-making processes. Furthermore, industry collaborations and strategic partnerships between quantum hardware providers, software developers, and enterprise customers gained momentum, creating ecosystems that facilitate the transition to quantum solutions. While quantum computing remains a long-term investment for most enterprises, the growing adoption and proof-of-concept projects in critical sectors signaled a promising future for the market. The enterprise quantum computing market is expected to experience accelerated growth, fueled by ongoing breakthroughs in quantum hardware and software. As quantum algorithms continue to evolve, industries will begin to adopt quantum solutions more extensively for real-world applications, moving from research and experimentation to practical, everyday use cases. Quantum computing will play a crucial role in enhancing the capabilities of artificial intelligence and machine learning models, enabling enterprises to perform more complex data analysis at unprecedented speeds. The integration of hybrid quantum-classical systems, which combine classical computing power with quantum acceleration, will become more prevalent, offering businesses a pathway to integrate quantum solutions into their existing IT infrastructure. Furthermore, with an increasing number of startups focused on quantum innovations and governments prioritizing quantum research, the market will see increased competition and innovation. As quantum computing evolves, it will drive industry-specific advancements in sectors such as cybersecurity, supply chain optimization, and financial modeling, creating new revenue streams and business models for enterprises worldwide.

## Key Insights Enterprise Quantum Computing Market

**Quantum-as-a-Service (QaaS) Adoption:** The growing availability of cloud-based quantum computing services is enabling businesses to access quantum resources without the need for expensive in-house hardware, democratizing access to quantum power for small and medium-sized enterprises as well as large corporations.

**Hybrid Quantum-Classical Systems:** Enterprises are increasingly adopting hybrid systems that combine classical computing with quantum acceleration, allowing businesses to leverage the strengths of both technologies. This approach helps enterprises transition more smoothly into quantum computing without a complete infrastructure overhaul.

**Quantum Software Development Advancements:** Quantum software is evolving rapidly, with more robust algorithms and development platforms that help businesses integrate quantum solutions into their operations. This includes applications for optimization, AI, cryptography, and data analysis, expanding the scope of quantum computing in various industries.

**Industry-Specific Quantum Solutions:** Tailored quantum solutions are emerging for sectors such as pharmaceuticals, finance, and logistics. These solutions address specific industry challenges, such as drug discovery optimization, financial risk modeling, and supply chain management, increasing the practicality and relevance of quantum computing for enterprise applications.

**Increased Collaboration Between Industry and Academia:** Partnerships between quantum technology providers, enterprises, and academic institutions are helping to drive innovation. These collaborations are fostering the development of new quantum algorithms, hardware advancements, and practical solutions for businesses, accelerating the adoption of quantum computing in real-world applications.

**Demand for Faster Computational Capabilities:** As data volumes continue to grow and problems become more complex, enterprises need faster computational power to process and analyze vast datasets. Quantum computing offers a way to address these needs, unlocking new capabilities for industries ranging from healthcare to finance.

**AI and Machine Learning Advancements:** Quantum computing has the potential to significantly enhance the performance of artificial intelligence and machine learning algorithms. The ability to process large datasets faster and more efficiently will enable enterprises to achieve higher levels of accuracy and optimization in AI-driven decision-making.

**Increased Investment in Quantum Research:** Both public and private sectors are heavily investing in quantum research and development, accelerating the

development of quantum hardware, software, and real-world applications. As more organizations and governments fund quantum initiatives, the market is expected to grow at an exponential rate.

**Cybersecurity Needs:** As cybersecurity threats become more sophisticated, enterprises are increasingly exploring quantum computing's potential to improve encryption and data security. Quantum computing promises to provide stronger protection against cyberattacks, especially in cryptography and data privacy applications.

**Technological Complexity and Scalability Issues:** Despite its promise, quantum computing faces significant challenges related to scalability and technological complexity. Developing stable, high-quality qubits that can scale to practical enterprise-level systems remains a major hurdle, slowing the widespread adoption of quantum solutions.

## Enterprise Quantum Computing Market Segmentation

### By Component

Hardware

Software

Services

### By Deployment Mode

On-Premise

Cloud

### By Technology

Quantum Annealing

Superconducting

Trapped Ion

Quantum Dot

Other Technologies

#### By Application

Machine Learning/Deep Learning/AI

Optimization

Simulation And Data Modelling

Cyber Security

Other Applications

#### By Industry Vertical

Healthcare And Life sciences

IT And Telecom

Manufacturing

BFSI

Energy And Utilities

Aerospace And Defense

Other Industries

## Key Companies Analysed

Huawei Technologies Co. Ltd.

Google LLC

Microsoft Corp.

Alibaba Group Holding Limited

Amazon Web Services Inc.

Raytheon Corp.

Lockheed Martin Corp.

IBM Corporation

Deloitte Touche Tohmatsu Limited

KPMG International Cooperative

NXP Semiconductors NV.

Booz Allen Hamilton Corp.

Reply S.p.A

Honeywell Quantum Solutions

Quantum Technology

PsiQuantum Inc.

D-Wave Systems Inc.

1QBit Information Technologies Inc.

Terra Quantum AG

Zapata Computing Inc.

Rigetti Computing Inc.

IonQ Inc.

Classiq Technologies Inc.

Phasecraft Ltd.

Cambridge Quantum Computing

Xanadu Quantum Technologies Inc.

Aegiq Inc.

QuantroIOx Ltd.

QMWare Inc.

Archer Materials Limited

## Enterprise Quantum Computing Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Enterprise Quantum Computing Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

### Countries Covered

North America — Enterprise Quantum Computing market data and outlook to 2034

United States

Canada

Mexico

Europe — Enterprise Quantum Computing market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

## Asia-Pacific — Enterprise Quantum Computing market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

## Middle East and Africa — Enterprise Quantum Computing market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

## South and Central America — Enterprise Quantum Computing market data and outlook to 2034

Brazil

Argentina

Chile

## Peru

*\* We can include data and analysis of additional countries on demand.*

### Research Methodology

This study combines primary inputs from industry experts across the Enterprise Quantum Computing value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Enterprise Quantum Computing industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

### Your Key Takeaways from the Enterprise Quantum Computing Market Report

Global Enterprise Quantum Computing market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Enterprise Quantum Computing trade, costs, and supply chains

Enterprise Quantum Computing market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Enterprise Quantum Computing market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Enterprise Quantum Computing market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Enterprise Quantum Computing supply chain analysis

Enterprise Quantum Computing trade analysis, Enterprise Quantum Computing market price analysis, and Enterprise Quantum Computing supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Enterprise Quantum Computing market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the

impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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