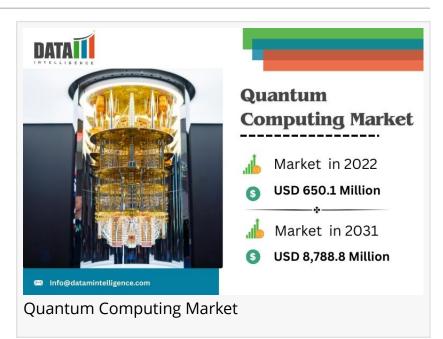


# Next-Gen Quantum Computing Market Value, Forecast, and Updates By 2031 | DataM Intelligence

The Quantum Computing Market was valued at US\$ 650.1 Million in 2022 and is projected to Hit US\$ 8,788.8 Million by 2031

AUSTIN, TX, UNITED STATES, May 21, 2025 /EINPresswire.com/ -- Quantum Computing Market: The Next Digital Frontier

Quantum Computing is rapidly transforming from a futuristic concept into a revolutionary force shaping the digital era. With the ability to process



complex problems at speeds unimaginable by classical computers, quantum computing is gaining momentum across various industries from pharmaceuticals and logistics to finance and defense. In 2025, this sector is experiencing unprecedented growth, driven by rising investments, technological breakthroughs, and global collaboration.

# ٢٢

In the U.S. Quantum Computing Market is gaining momentum as tech giants and startups invest heavily, making it a key hub for innovation and projected multi-billion dollar growth" *DataM Intelligence*  Market Value and Growth Outlook

The Global <u>Quantum Computing Market Size</u> was valued at around The quantum computing market was valued at US\$ 650.1 Million in 2022 and is projected to grow to US\$ 8,788.8 Million by 2031, expanding at a compound annual growth rate of 38.9% between 2024 and 2031. The growth is primarily attributed to increasing demand for advanced problem-solving capabilities, enhanced computational performance, and rising use cases across industry

verticals.

Governments, tech giants, and startups alike are racing to harness quantum capabilities, building quantum processors, developing algorithms, and designing quantum-based security systems. The technology's potential to drastically reduce the time for simulations, optimization, and data analysis is opening up new pathways for innovation.

To Download Sample Report: <u>https://www.datamintelligence.com/download-sample/quantum-</u> <u>computing-market</u>

#### **Regional Outlook**

#### North America

The U.S. continues to hold a leading position in the quantum computing landscape, maintaining its dominance in the region. taking a leading role in terms of investments, research programs, and tech innovation. Federal initiatives and private sector collaborations are accelerating the deployment of quantum hardware and software solutions. Quantum as a Service (QaaS) platforms are also gaining popularity among American enterprises.

#### Europe

Europe is gradually positioning itself as a major player in the quantum computing landscape. Germany, France, and the Netherlands are boosting quantum research through investments in infrastructure and collaborative innovation networks. The region is also focusing on ethical quantum computing, sustainable infrastructure, and secure applications for governmental use.

#### Asia-Pacific

This region is witnessing swift advancements, particularly in Japan, China, and South Korea. Japan has accelerated public-private efforts and global collaborations to strengthen its position as a leading force in quantum technology across Asia. Overall, the region is focusing on the development of both hardware and quantum-based AI algorithms.

Leading Companies in the Market

The market is fueled by a mix of global tech leaders and innovative startups:

IBM Quantum Telstra Corporation Limited IonQ Inc. Silicon Quantum Computing Huawei Technologies Co. Ltd. Alphabet Inc. Rigetti & Co Inc. Microsoft Corporation D-Wave Systems Inc. Zapata Computing Inc Google Honeywell Rigetti Computing

Market Segmented By:

By Offering: Hardware, Software, Service

By Deployment Type: On-premises, Cloud-based

By Technology: Quantum Dots, Trapped Ions, Quantum Annealing

By Application: Optimization, Simulation and Data Problems, Sampling, Machine Learning, Others

By End-User: Banking, Financial Services and Insurance, Aerospace & Defense, Manufacturing, Healthcare, IT & Telecom, Energy & Utilities, Others

By Region Based on: North America, Europe, South America, Asia Pacific, Middle East, and Africa

#### Latest News – USA

The U.S. is seeing a wave of high-impact quantum projects in 2025. Universities and federal labs are working closely with leading tech companies to push the boundaries of quantum hardware. Several new research centers have been launched this year, emphasizing national security, communication networks, and scalable computing.

A notable development is the expansion of public-private consortiums aimed at building a nationwide quantum ecosystem. These efforts are targeting a robust quantum internet and advanced post-quantum cryptography standards. Furthermore, new federal grants and venture capital funding are empowering startups in Silicon Valley and Boston to take bigger risks and accelerate commercialization.

Additionally, multiple companies have unveiled upgraded quantum chips and simulation tools this year, claiming breakthroughs in qubit control and fault-tolerant computation. The momentum is strong, with strategic hiring across labs and a growing demand for quantumliterate professionals.

#### Latest News – Japan

Japan is also making headlines in 2025 with its ambitious quantum roadmap. The government has increased funding toward indigenous quantum processors and academic research, with the goal of achieving large-scale, fault-tolerant quantum machines within this decade.

This year, several pilot projects have launched across leading universities and R&D centers. These projects focus on autonomous navigation, pharmaceutical modeling, and high-frequency trading simulations. Japanese conglomerates have also partnered with international quantum firms to co-develop hybrid systems tailored to local industries.

Moreover, Japan is establishing regional quantum hubs designed to support startups, educational programs, and cross-sector innovation. These hubs will serve as testbeds for realworld applications, particularly in manufacturing and logistics sectors where Japan has a global footprint.

Key Developments of 2025

# 1. Scalable Quantum Chips

This year has seen a new generation of quantum chips with improved qubit counts and lower error rates. These chips are more compact and designed for easier integration into hybrid systems.

# 2. Quantum-as-a-Service Platforms

More providers are offering cloud-based access to quantum computing, enabling small and midsize enterprises to experiment without building in-house hardware.

#### 3. Industry-specific Solutions

Customized quantum applications are being developed for healthcare, automotive, aerospace, and financial services. These include quantum-enhanced drug discovery, risk modeling, and traffic flow optimization.

#### 4. Workforce Development

Education and training programs are being scaled up in response to rising industry demand. Institutions are now offering quantum engineering degrees and micro-certifications in quantum programming and hardware management.

# 5. Quantum Communication

2025 has marked a leap in quantum communication technology, with successful tests of quantum-secure data transmission across national networks.

#### Conclusion

The quantum computing market in 2025 is not just growing, it is evolving rapidly into a transformative technology platform. The convergence of public support, private investment, and scientific progress is fueling a new digital era. As quantum systems become more accessible and stable, their impact will stretch far beyond labs and supercomputers, touching industries, infrastructure, and even daily life.

Stay informed with the latest industry insights—start your subscription now:

https://www.datamintelligence.com/reports-subscription

Have a Look on Latest Trending Reports By DataM Intelligence

Quantum Sensors Market Size, Share Analysis

Quantum Chip Market Size, Share, Growth Insights

Sai Kumar DataM Intelligence 4market Research LLP +1 877-441-4866 sai.k@datamintelligence.com Visit us on social media: LinkedIn X

This press release can be viewed online at: https://www.einpresswire.com/article/814724093

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire<sup>™</sup>, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information. © 1995-2025 Newsmatics Inc. All Right Reserved.