

Global Quantum Computing as a Service (QCaaS) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quantum Computing as a Service (QCaaS) market size is expected to reach \$ 1580 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

Quantum Computing as a Service (QCaaS) is a cloud-native delivery model that provides users with on-demand, remote access to quantum computing resources?including quantum processing units (QPUs), simulators, pre-built algorithms, software development kits and hybrid quantum-classical workflow tools?via cloud platforms on a pay-per-use basis, eliminating the need for enterprises, researchers and developers to make substantial capital investments in building, operating and maintaining complex, high-cost quantum hardware infrastructure, while lowering the technical entry barrier to quantum computing by offering user-friendly development and testing environments for running quantum algorithms and prototyping quantum applications across diverse computational scenarios.

The global Quantum Computing as a Service (QCaaS) market is experiencing robust exponential growth with a projected high compound annual growth rate, driven by core trends including deep collaboration between top cloud service providers and quantum technology enterprises to build multi-hardware-backend QCaaS platforms, the rapid adoption of hybrid quantum-classical computing architectures, the optimization of on-demand and pay-per-use commercial models, and the Asia-Pacific region emerging as the fastest-growing market after North America; key opportunities lie in QCaaS breaking the resource and technical barriers of quantum computing, enabling low-threshold access to advanced quantum computing power for vertical sectors such as pharmaceuticals, finance, cybersecurity and advanced materials, empowering small and medium-sized enterprises and research institutions to participate in quantum innovation, accelerating the prototype verification and commercial landing of use cases like drug discovery, financial risk modeling and quantum-resistant cryptography, and benefiting

from surging public and private funding for quantum research that fuels ecosystem expansion; meanwhile, the industry faces prominent challenges including persistent quantum hardware limitations such as low qubit fidelity, high error rates and limited qubit scale, the technical complexity of seamless integration between quantum and classical computing systems, a global shortage of professional quantum talent hindering service development and on-the-ground application, the lack of unified industry standards for QCaaS service evaluation and interoperability, and unresolved security and data privacy protection issues for cloud-based quantum computing access and resource usage.

This report studies the global Quantum Computing as a Service (QCaaS) demand, key companies, and key regions.

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

Highlights and key features of the study

Global Quantum Computing as a Service (QCaaS) total market, 2021-2032, (USD Million)

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

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

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

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

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

This report profiles major players in the global Quantum Computing as a Service (QCaaS) 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 Quantum Computing Inc, AQT, D-Wave Systems, Google, IBM, IQM, Origin Quantum, Oxford Quantum Circuits, IonQ, Xanadu, 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 as a Service (QCaaS) 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 as a Service (QCaaS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Computing as a Service (QCaaS) Market, Segmentation by Type:

Infrastructure-as-a-Service

Platform-as-a-Service

Other

Global Quantum Computing as a Service (QCaaS) Market, Segmentation by Quantum Technical Type:

Gate-Based Quantum Computing

Annealing Quantum Computing

Other

Global Quantum Computing as a Service (QCaaS) Market, Segmentation by User Access & Usage Mode:

On-Demand Access

Dedicated Reserved Access

Others

Global Quantum Computing as a Service (QCaaS) Market, Segmentation by Application:

Commercial QCaaS Providers

Academic and Research QCaaS Providers

Governmental QCaaS Providers

Companies Profiled:

Quantum Computing Inc

AQT

D-Wave Systems

Google

IBM

IQM

Origin Quantum

Oxford Quantum Circuits

IonQ

Xanadu

Qilimanjaro Quantum Tech

Quantinuum

QuantumCTek

Microsoft

Rigetti Computing

Amazon Web Services (AWS)

Key Questions Answered

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

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