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

https://marketpublishers.com/r/G612CB3850EBEN.html
Date: July 2026
Pages: 134
Price: US$ 4,480.00 (Single User License)
ID: G612CB3850EBEN

Abstracts

The global Quantum Computers market size is expected to reach $ 863 million by 2032, rising at a market growth of 31.2% CAGR during the forecast period (2026-2032).

In 2025, global Quantum Computers capacity 10 Units, sales reached approximately 7 Units, with an average market price of around 15,000 k USD/Unit, industrial gross margin 45%.

Quantum Computers are emerging computing systems built around qubits, quantum gates, quantum measurement and quantum error correction, with value concentrated in problem classes where classical computation scales poorly. Quantum Computers are not positioned as drop-in replacements for classical servers; they are specialized accelerators for simulation, optimization, cryptography-related analysis, sampling, machine learning research and complex system modeling. Key specifications should be read across multiple axes: physical qubit count ranges from tens to hundreds in gate-model systems and thousands in annealing systems; leading superconducting systems are in the 84?156 physical-qubit range, neutral-atom systems have demonstrated 256-qubit platforms, and annealing systems have moved beyond 4,400 qubits; two-qubit gate fidelity, coherence time, circuit depth, connectivity, quantum volume, logical-qubit count and error-correction performance are more important than headline qubit count alone.

Quantum Computers are developing along several competing hardware paths rather than a single dominant architecture. Superconducting systems benefit from fast gates and semiconductor-style fabrication; trapped-ion systems emphasize high fidelity and long coherence; neutral-atom systems offer scalable arrays and flexible connectivity; photonic systems emphasize room-temperature operation and optical-network

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compatibility; silicon-spin systems target semiconductor manufacturability; topological approaches aim to reduce error-correction overhead; annealing systems focus on optimization workloads. The value chain spans dilution refrigerators, lasers, vacuum systems, cryogenic wiring, microwave control, photonic components, quantum chips, control stacks, compilers, cloud platforms and application-layer software. Demand is led by national labs, cloud platforms, universities, HPC centers, finance, chemicals, pharma, energy, aerospace, defense and advanced materials research.

Quantum Computers are still in the transition from research validation to early commercial deployment, with near-term value concentrated in quantum simulation, optimization, sampling, quantum machine learning, cryptography readiness and high-dimensional modeling. Chemicals and pharmaceuticals focus on molecular energy states, catalysts and reaction pathways; finance focuses on portfolio and risk analytics; energy and materials focus on batteries, hydrogen, carbon capture and superconductors; logistics and manufacturing focus on scheduling and constrained optimization; cybersecurity focuses on post-quantum migration and quantum-enabled security tools. Recent events show a sector moving from laboratory milestones toward capital formation, public procurement, cloud access and system deployment: Google?s Willow chip advanced error correction on 105 qubits, IBM deployed Quantum System Two with a 156-qubit Heron processor outside the U.S., D-Wave made its 4,400+ qubit Advantage2 system generally available, Quantinuum completed a major U.S. IPO, and IonQ?s acquisition of Oxford Ionics added chip-scale trapped-ion control capabilities to its roadmap.

The competitive structure of Quantum Computers has already split into large technology platforms, pure-play quantum companies, deep-tech private firms, national-lab ecosystems and regional innovation platforms. IBM and Google lead in superconducting system engineering and software ecosystems; Quantinuum and IonQ hold strong positions in trapped ions; D-Wave has the clearest commercial record in quantum annealing; Rigetti focuses on superconducting full-stack systems and QPU sales; PsiQuantum is pursuing photonic fault-tolerant systems; Atom Computing, QuEra, Pasqal, Infleqtion and planqc are scaling neutral-atom platforms; Chinese players such as Origin Quantum, QuantumCTek and SpinQ are advancing superconducting systems, cloud access, educational machines and broader quantum information commercialization. Competition is no longer measured by qubit count alone; it is increasingly measured by logical qubits, error-correction overhead, system uptime, cloud throughput, customer validation, supply-chain control, full-system delivery and application-layer ecosystem strength.

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The next phase of Quantum Computers will be defined by logical qubits, engineering deployment, hybrid computing and closed-loop industry use cases. Physical-qubit scaling will continue, but buyer criteria are shifting toward high-fidelity gates, lower error rates, repeatable workloads, cloud availability and workflow integration. Fault-tolerant quantum computing will become the premium battleground, with quantum error correction, real-time decoding, modular interconnects and cryogenic or optical engineering setting the long-term ceiling. Business models are moving from research access toward cloud subscriptions, dedicated systems, government and HPC procurement, industry co-development and quantum software services. Growth drivers include national security, drug discovery, advanced materials, battery chemistry, complex optimization, financial risk, AI data generation, quantum-safe security and HPC integration. The sector remains constrained by architectural fragmentation, volatile revenue recognition, long qualification cycles, high maintenance cost and limited large-scale practical advantage, but capital formation, public procurement, cloud ecosystems and industry pilots are moving Quantum Computers toward strategic computing infrastructure.

This report studies the global Quantum Computers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Quantum Computers total production and demand, 2021-2032, (Units)
Global Quantum Computers total production value, 2021-2032, (USD Million)
Global Quantum Computers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Quantum Computers consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Quantum Computers domestic production, consumption, key domestic manufacturers and share
Global Quantum Computers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Quantum Computers production by Technology, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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Global Quantum Computers production by Industry, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Quantum Computers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include IBM, D-Wave, IonQ, Quantinuum, Infleqtion, Quandela, Origin Quantum, CIQTEK, QuantumCTek, QUDOOR Technologies, 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 Computers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/Unit) by manufacturer, by Technology, and by Industry. 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 Computers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Quantum Computers Market, Segmentation by Technology:

Superconducting Quantum Computer

Photonics Quantum Computer

Trapped Ion Quantum Computer

Topological Quantum Computer

Cold Atom Quantum Computer

Silicon Spin Quantum Computer

Others

Global Quantum Computers Market, Segmentation by Qubit:

Below 10-qubit

10-100-qubit

Above 100-qubit

Global Quantum Computers Market, Segmentation by Application Scenario:

Computational Chemistry

Machine Learning

Financial Optimizations

Logistics and Scheduling

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Drug Design

Cyber Security

Codebreaking

Circuit, Software, and System Fault Simulation

Global Quantum Computers Market, Segmentation by Industry:

Finance

Chemical

AI

Medical

Automobile

New Energy

Others

Companies Profiled:

IBM

D-Wave

IonQ

Quantinuum

Infleqtion

Quandela

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Origin Quantum

CIQTEK

QuantumCTek

QUDOOR Technologies

TuringQ

SpinQ

Key Questions Answered:
1. How big is the global Quantum Computers market?
2. What is the demand of the global Quantum Computers market?
3. What is the year over year growth of the global Quantum Computers market?
4. What is the production and production value of the global Quantum Computers market?
5. Who are the key producers in the global Quantum Computers market?
6. What are the growth factors driving the market demand?

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Contents

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5 MARKET ANALYSIS BY TECHNOLOGY

6 MARKET ANALYSIS BY QUBIT

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7 MARKET ANALYSIS BY APPLICATION SCENARIO

8 MARKET ANALYSIS BY INDUSTRY

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9 COMPANY PROFILES

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info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

10 INDUSTRY CHAIN ANALYSIS

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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