

Global AI Quantum Computing Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Quantum Computing market size is expected to reach \$ 3633 million by 2032, rising at a market growth of 34.2% CAGR during the forecast period (2026-2032).

AI quantum computing is an interdisciplinary technology formed by the convergence of artificial intelligence and quantum computing. It leverages machine learning to optimize quantum algorithms, quantum circuits, error correction, and device control, while utilizing quantum computing to enhance the computational efficiency of AI tasks such as complex optimization, pattern recognition, drug discovery, and materials simulation.

The upstream sector encompasses quantum chips, cryogenic refrigeration equipment, lasers, microwave components, control chips, precision measurement instruments, and cloud computing infrastructure; the downstream sector spans industries including finance, pharmaceuticals, chemicals, energy, automotive, aerospace, logistics, cybersecurity, and research and education.

The future global market for AI quantum computing will be driven by advancements in quantum hardware performance, the increasing complexity of AI models, and the demand for high-performance computing. In the near term, the industry will continue to rely primarily on hybrid computing models—where classical computing, AI, and quantum processors operate in tandem—with key areas of exploration including quantum machine learning, combinatorial optimization, generative materials design, and drug screening. AI will be increasingly applied to quantum chip calibration, noise suppression, error mitigation, and automated quantum circuit design, thereby lowering the barriers to using quantum systems. As cloud-based quantum platforms, development tools, and industry-specific algorithm libraries mature, enterprises in finance, pharmaceuticals, energy, and manufacturing will accelerate pilot testing and validation. Long-term competition will shift

toward fault-tolerant quantum computing, software-hardware ecosystems, specialized talent, industry data, and the capability to deliver commercialized solutions.

Report Scope

This report studies the global AI Quantum Computing demand, key companies, and key regions.

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

Highlights and key features of the study

Global AI Quantum Computing total market, 2021-2032, (USD Million)

Global AI Quantum Computing total market by region & country, CAGR, 2021-2032, (USD Million)

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

Global AI Quantum Computing revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI Quantum Computing total market by Type, CAGR, 2021-2032, (USD Million)

Global AI Quantum Computing total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global AI Quantum Computing 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 IBM, Google, Microsoft, Amazon Web Services, NVIDIA, Quantinuum, IonQ, Rigetti Computing, D-Wave Quantum, Pasqal, 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 AI Quantum Computing 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 AI Quantum Computing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Quantum Computing Market, Segmentation by Type:

Hardware

Software

Global AI Quantum Computing Market, Segmentation by Technology Integration Direction:

Quantum Computing for Artificial Intelligence

Artificial Intelligence for Quantum Computing

Quantum–Classical Hybrid Intelligence

Quantum-inspired Artificial Intelligence

Global AI Quantum Computing Market, Segmentation by System Maturity:

Quantum Simulator-based System

NISQ Computing System

Error-mitigated Quantum System

Fault-tolerant Quantum Computing System

Logical-qubit Quantum Computing System

Global AI Quantum Computing Market, Segmentation by Application:

Financial Services

Pharmaceuticals and Biotechnology

Chemicals and Materials

Energy and Utilities

Automotive and Mobility

Aerospace and Defense

Manufacturing

Logistics and Transportation

Companies Profiled:

IBM

Google

Microsoft

Amazon Web Services

NVIDIA

Quantinuum

IonQ

Rigetti Computing

D-Wave Quantum

Pasqal

IQM Quantum Computers

Eviden

Riverlane

Fujitsu

NEC

Origin Quantum

QuantumCTek

China Telecom Quantum Group

SpinQ

TuringQ

Key Questions Answered

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

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