

Global AI Quantum Computing Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global AI Quantum Computing market size is predicted to grow from US\$ 455 million in 2025 to US\$ 3796 million in 2032; it is expected to grow at a CAGR of 36.3% from 2026 to 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

LPI (LP Information)' newest research report, the "AI Quantum Computing Industry Forecast" looks at past sales and reviews total world AI Quantum Computing sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Quantum Computing sales for 2026 through 2032. With AI Quantum Computing sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Quantum Computing industry.

This Insight Report provides a comprehensive analysis of the global AI Quantum Computing landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on AI Quantum Computing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Quantum Computing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Quantum Computing and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Quantum Computing.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Quantum Computing market by product type, application, key players and key regions and countries.

Segmentation by Type:

Hardware

Software

Segmentation by Technology Integration Direction:

Quantum Computing for Artificial Intelligence

Artificial Intelligence for Quantum Computing

Quantum–Classical Hybrid Intelligence

Quantum-inspired Artificial Intelligence

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

Segmentation by Application:

Financial Services

Pharmaceuticals and Biotechnology

Chemicals and Materials

Energy and Utilities

Automotive and Mobility

Aerospace and Defense

Manufacturing

Logistics and Transportation

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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