

Quantum Processing Unit Market Size, Share & Trends Analysis Report By Offerings (Hardware, Software, Services), By Technology, By Application, By End Use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Quantum Processing Unit Market Trends

The global quantum processing unit market size was estimated at USD 1.09 billion in 2024 and is expected to grow at a CAGR of 32.7% from 2025 to 2030. Significant investments in research and development by both public and private sectors improve quantum hardware capabilities, particularly in superconducting and trapped ion qubits.

The growing need for high-performance computing across industries such as finance, pharmaceuticals, and materials science drives demand for quantum processors. In addition, advancements in quantum algorithms and error correction techniques improve the reliability and usability of QPUs, supporting their expanding adoption in real-world applications. Moreover, market growth is supported by increasing enterprise adoption of quantum computing for complex problem-solving tasks. Sectors such as drug discovery, financial modeling, and logistics benefit from quantum-enhanced simulations and optimizations, creating new commercial use cases. The rise of cloud-based quantum services further broadens access to QPUs, reducing barriers related to cost and infrastructure. Moreover, ongoing government initiatives and collaborations with private companies provide sustained funding and strategic support, accelerating innovation and scaling of quantum technologies.

Furthermore, future expansion depends on overcoming technical challenges such as qubit coherence, scalability, and integration with classical computing systems. Continuous hardware design and quantum software development improvements increase performance and practical utility. As quantum advantage becomes demonstrable in specific applications, more industries integrate QPUs into their workflows. This transition from research-focused usage to commercial deployment drives the market's steady growth.

Global Quantum Processing Unit Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2017 to 2030. For this study, Grand View Research has segmented the global quantum processing unit market report based on the offerings, technology, application, end use, and region.

Offerings Outlook (Revenue, USD Million, 2017-2030)

Hardware

Software

Services

Technology Outlook (Revenue, USD Million, 2017-2030)

Trapped Ions

Superconducting Processors

Photonic Processors

Others

Application Outlook (Revenue, USD Million, 2017-2030)

Factory Automation

Material Science

Environment Monitoring

Cybersecurity

Others

End Use Outlook (Revenue, USD Million, 2017-2030)

Logistics

Automotive & Transportation

Industrial

Chemicals

Environment

BFSI

Others

Regional Outlook (Revenue, USD Million, 2017-2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

Australia

South Korea

Latin America

Brazil

MEA

UAE

South Africa

KSA

Companies Mentioned

Accenture

Amazon Web Services, Inc.

D-Wave Quantum Inc.

Fujitsu

Intel Corporation

IBM Corporation

Microsoft

NVIDIA Corporation

QuantWare

Rigetti & Co, LLC.

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