

Quantum Computing Trends and Strategies

AN IDC CONTINUOUS INTELLIGENCE SERVICE

IDC's *Quantum Computing Trends and Strategies* will provide insights into the quantum computing industry and market. It will review and showcase systems, platforms, technologies, services, and the kinds of use cases that are emerging in the quantum-only and hybrid quantum era. It will provide IDC's perspective on opportunities for vendors as they seek to offer technology stacks as a service to enable a variety of use cases related to quantum computing. The program will also size, segment, and forecast the market, deliver data-driven end user trends, and analyze the evolving ecosystem.

Markets and Subjects Analyzed

- Core quantum computing systems, platforms, and technologies
- Core quantum computing services
- Adjacent quantum computing systems, platforms, and technologies
- Adjacent quantum computing services
- Quantum computing use cases and workloads
- Quantum computing investments, market opportunities, and trends

Core Research

- IDC Market Glance: Quantum Computing
- IDC Quantum Computing Taxonomy
- Quantum Computing Adoption Trends
- Quantum Computing Vendor Profiles
- Quantum Computing Market Forecast (Including Investments)
- Quantum Computing Use Case Reports
- Quantum Computing Workloads and Workflows
- Planning for Quantum Computing
- Adoption of Quantum Computing for Enterprises
- Quantum Computing Cryptography and Post Quantum Cryptography
- Quantum Computing Ecosystems
- Quantum Computing Networks

In addition to the insight provided in this service, IDC may conduct research on specific topics or emerging market segments via research offerings that require additional IDC funding and client investment. To learn more about the analysts and published research, please visit:

[Quantum Computing Trends and Strategies](#).

Key Questions Answered

1. Why should organizations begin investing in quantum computing?
2. How and what business cases are organizations making for investing in quantum computing?
3. What are the different options for consuming quantum computing? What is the case that vendors are making?
4. What is quantum advantage? Why should organizations be interested in quantum advantage? What technologies or quantum solutions are available for organizations interested in exploring how quantum computing technologies can result in quantum advantage?
5. Which are the leading vendors for quantum computing systems, platforms, technologies, and services?
6. What are the various elements that go into consideration when evaluating quantum computing as a service?
7. What are the challenges that organizations face when considering quantum computing? What are their plans for as-a-service consumption?
8. What is quantum safe cryptography? Why is it important? How can organizations begin to protect their data for the onset of the quantum computing era?
9. How large is the worldwide quantum computing hardware? How large is it as a service market? How will this market grow over the next five years?

Companies Analyzed

This service reviews the strategies, market positioning, and future direction of several vendors and service providers in the quantum computing market, including but not limited to:

AWS Braket, D-Wave, Google, IBM, IonQ, Microsoft Azure Quantum, QC Ware, Quantinuum, Rigetti, ColdQuanta and Zapata Computing