

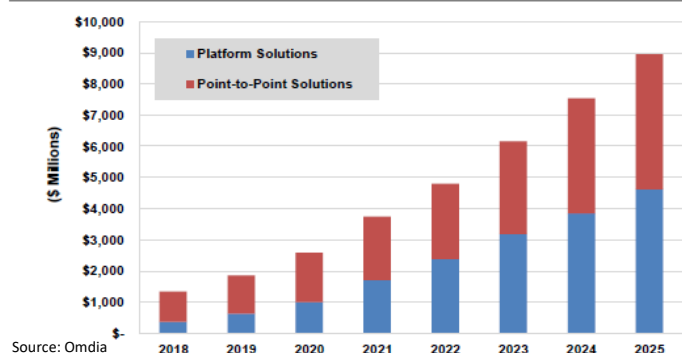
Quantum Computing for Enterprise Markets Report

Part of the AI & Intelligent Automation
Service Area Package

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Enterprise VDA Software Revenue by Solution Type, World Markets: 2018-2025



Hardware, Software, Storage, and Services across 60 Use Cases and 15 Industry Sectors: Global Market Analysis and Forecasts

Quantum computing (QC) can best be defined as the use of the attributes and principles of quantum mechanics to perform calculations and solve problems. Quantum computers are designed to utilize quantum bits (qubits), which are subatomic particles such as electrons and photons, to represent data. When these qubits are combined, or entangled, they can exist in multiple states (known as superposition). The result is that multiple calculations can be carried out at once, as each qubit can represent a value of 1, 0, or any point in between. A quantum system can process and analyze all data simultaneously and then return the best solution, along with thousands of close alternatives – all within microseconds.

However, quantum computers are not destined to replace the processors in personal computers or smartphones anytime soon. For the most part, quantum computers will be best suited to addressing optimization problems, identifying patterns in data, and conducting complex simulations that would be too taxing for traditional, or classical, computers. These issues will drive the global market for enterprise QC. But quantum computers have not yet demonstrated quantum supremacy or quantum advantage. Significantly scaling the processing power, improving error correction abilities, and writing and refining quantum algorithms will be required before enterprises adopt QC en masse. Still, the QC market is expected to grow strongly through 2030. Omdia expects total enterprise QC market revenue to reach \$9.1 billion annually by 2030, up from \$111.6 million in 2018.

This Omdia report examines the market trends and technology issues surrounding quantum computers used by enterprise organizations. The report includes discussion of the 15 industries that are researching or initiating QC projects today and likely will be utilizing the technology in the future. It also includes detailed discussion of 60 use cases, as well as more than 15 key market participants. Enterprise QC market forecasts, segmented by world region, industry, and use case, along with breakouts by hardware, software, storage, and services revenue, extend through 2030.

Report Coverage

KEY ISSUES ADDRESSED	COVERAGE	APPLICABLE TO
<ul style="list-style-type: none"> How is quantum computing (QC) defined? Which industries are using enterprise QC today, and which ones will use it in the future? What are some likely enterprise QC use cases? How quickly will revenue grow for these use cases through 2030? Where will QC revenue be generated in the enterprise market? Which companies are the major players involved in the development of QC? 	<p>Total Enterprise Quantum Computing Revenue, World Markets: 2018-2030</p> <ul style="list-style-type: none"> By Region By Industry By Product Type <p>Enterprise Quantum Computing Software Revenue</p> <ul style="list-style-type: none"> By Region By Industry By Use Case <p>End Applications User Markets/</p> <ul style="list-style-type: none"> Hardware Storage Software Services 	<p>Technologies</p> <ul style="list-style-type: none"> Quantum computing Entanglement Superposition Quantum annealing Superconducting Quantum gates Trapped ions Qubits Physical qubits Logical qubits Topological qubits Quantum key distribution <p>Regions</p> <ul style="list-style-type: none"> North America Europe Asia Pacific Latin America Middle East and Africa <p>Segments</p> <ul style="list-style-type: none"> Aerospace Agriculture Automotive Energy Finance Gaming Healthcare IT Investment Life Sciences Logistics Manufacturing Oil, Gas, and Mining Telecommunications Transportation <p>APPLICABLE TO</p> <ul style="list-style-type: none"> Quantum computing (QC) hardware vendors QC software/middleware/algorithm developers AI companies Enterprise companies Professional services firms Government agencies Investor community

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Table of Content (1/3)

1. Executive Summary

- 1.1. Defining Quantum Computing
- 1.2. Market Drivers
- 1.3. Market Barriers
- 1.4. Quantum Computing Market Structure
- 1.5. Market Forecasts

2. Market Issues

- 2.1. Defining Quantum Computing
 - 2.1.1. Why Quantum Computing?
 - 2.1.2. Quantum Advantages Compared with Existing Technologies
 - 2.1.3. Technological Limitations
 - 2.1.4. Factors Affecting Technological and Market Development
 - 2.1.4.1. Plateaus in Development
 - 2.1.4.2. Progress with Use Cases
 - 2.1.4.3. Hype
- 2.2. Current Deployments of Quantum Computing

- 2.2.1. Academic and Research Environments
- 2.2.2. Early-Stage Commercial Activity
- 2.2.3. Potential Timeline for Enterprise Adoption of Quantum Computing
- 2.3. Market Drivers
 - 2.3.1. Demand for Greater Precision
 - 2.3.2. Simulation Work Is Gaining Traction and Requires More Processing Power
 - 2.3.3. Desire to Address Complex Optimization Problems
- 2.4. Market Barriers
 - 2.4.1. Technological Challenges
 - 2.4.1.1. Programming Quantum Computers
 - 2.4.1.2. Quantum Computing Stability and Error Correction
 - 2.4.1.3. Developing Quantum Algorithms

- 2.4.1.4. Scaling Quantum Computers
- 2.4.2. Control Concerns
- 2.4.3. Potential Regulatory Issues
- 2.5. Market Activity
- 2.6. Potential Applications and Use Cases Enabled by Quantum Computing
 - 2.6.1. Aerospace
 - 2.6.1.1. Aircraft Design
 - 2.6.1.2. Digital Modeling and Simulation
 - 2.6.1.3. Cryptography for Secure Communications
 - 2.6.1.4. Fault Tree Analysis for System Failures
 - 2.6.2. Agriculture
 - 2.6.2.1. Farming (Nitrogen Fixation)
 - 2.6.2.2. Crop Optimization
 - 2.6.2.3. Worker Scheduling
 - 2.6.2.4. Equipment Maintenance Planning
- 2.6.3. Automotive


- 2.6.3.1. Design Optimization
- 2.6.3.2. Battery Optimization
- 2.6.3.3. Connected Vehicle Communications
 - 2.6.3.4. AI Enhancement for Training and Inference
- 2.6.4. Energy
 - 2.6.4.1. Demand Response
 - 2.6.4.2. Plant Optimization
 - 2.6.4.3. Outage Management
 - 2.6.4.4. Distributed Generation
- 2.6.5. Finance
 - 2.6.5.1. Financial Modeling
 - 2.6.5.2. Financial Arbitrage
 - 2.6.5.3. Credit Risk Scoring
 - 2.6.5.4. ATM Cash Replenishment
- 2.6.6. Gaming
 - 2.6.6.1. Simulation and Modeling
 - 2.6.6.2. Random Feature Sets and Environments for Games

- 2.6.6.3. Custom Storyline Generation
- 2.6.6.4. AI Speedup and Enhancement
- 2.6.7. Healthcare
 - 2.6.7.1. Illness Detection
 - 2.6.7.2. Patient Flow Optimization
 - 2.6.7.3. Emergency Services Coordination
 - 2.6.7.4. Secure Communications
- 2.6.8. Information Technology
 - 2.6.8.1. Scheduling Resources and Maintenance
 - 2.6.8.2. Network Optimization
 - 2.6.8.3. Network Security and Encryption
 - 2.6.8.4. Quantum Network Development
- 2.6.9. Investment
 - 2.6.9.1. Portfolio Optimization
 - 2.6.9.2. Risk Tolerance Analysis
 - 2.6.9.3. Financial Simulations
 - 2.6.9.4. Trading Optimization

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Table of Content (2/3)

- 2.6.10. Life Sciences
 - 2.6.10.1. Drug Discovery
 - 2.6.10.2. Gene Editing
 - 2.6.10.3. Disease Research
 - 2.6.10.4. Disease Outbreak Management
- 2.6.11. Logistics
 - 2.6.11.1. Multimodal Route Optimization
 - 2.6.11.2. Supply Chain Optimization
 - 2.6.11.3. Reverse Logistics Coordination
 - 2.6.11.4. Fuel/Energy Optimization
- 2.6.12. Manufacturing
 - 2.6.12.1. Robot Positioning Optimization
 - 2.6.12.2. Assembly Process Optimization
 - 2.6.12.3. Materials Science
 - 2.6.12.4. Simulation and Modeling
- 2.6.13. Oil, Gas, and Mining
 - 2.6.13.1. Well Drilling

- Optimization
 - 2.6.13.2. Workforce Optimization and Scheduling
 - 2.6.13.3. Mine Location and Selection
 - 2.6.13.4. Distribution and Delivery Optimization
- 2.6.14. Telecommunications
 - 2.6.14.1. Secure Communications/QKD
 - 2.6.14.2. Mobile IP Routing
 - 2.6.14.3. Quantum Network Development
 - 2.6.14.4. Random Number Generation
- 2.6.15. Transportation
 - 2.6.15.1. Traffic Optimization
 - 2.6.15.2. Ridesharing Service Optimization
 - 2.6.15.3. Mass Transportation Optimization
 - 2.6.15.4. V2G Optimization
- 3. Technology Issues**
 - 3.1. Architecture of Quantum Computers

- 3.2. Types of Quantum Computers
 - 3.2.1. Quantum Annealers
 - 3.2.2. Universal Quantum Computers
 - 3.2.3. Analog Emulators
- 3.3. Quantum Computing Elements and Processes
 - 3.3.1. Qubits
 - 3.3.1.1. Topological Qubits
 - 3.3.1.2. Trapped Ions
 - 3.3.1.3. Superconducting Qubits
 - 3.3.1.4. Quantum Gates
 - 3.3.2. Superposition and Entanglement
- 3.4. Current Challenges
 - 3.4.1. Quality of Qubits
 - 3.4.2. Temperature Management
 - 3.4.3. Decoherence
 - 3.4.4. Noise and Error Management
 - 3.4.5. Measurement Challenges
- 3.5. Current State of Quantum Technology


- 3.5.1. Commercial Developments
- 3.5.2. Quantum Volume
- 4. Key Industry Players**
 - 4.1. Overview
 - 4.2. 1QB Information Technologies, Inc.
 - 4.3. Airbus SE
 - 4.4. Anyon Systems Inc.
 - 4.5. Cambridge Quantum Computing Ltd.
 - 4.6. DigiCert, Inc.
 - 4.7. D-Wave Systems Inc.
 - 4.8. Fujitsu
 - 4.9. Google
 - 4.10. IBM Corp.
 - 4.11. Intel Corp.
 - 4.12. Microsoft Corp.
 - 4.13. Oxford Quantum Circuits
 - 4.14. QC Ware Corp.
 - 4.15. Quantum Benchmark
 - 4.16. Quantum Circuits, Inc.
 - 4.17. Rigetti Computing
 - 4.18. Strangeworks

- 4.19. Zapata Com
- 5. Market Forecasts**
 - 5.1. Estimating the Market Potential for Enterprise Quantum Computing
 - 5.2. Global Enterprise Quantum Computing Market
 - 5.2.1. Enterprise Quantum Computing Revenue by Region
 - 5.2.2. Enterprise Quantum Computing Revenue by Industry
 - 5.2.3. Enterprise Quantum Computing Revenue by Technology Category
 - 5.2.4. Enterprise Quantum Computing Software Revenue by Regionputing
 - 5.3. Global Enterprise Quantum Computing Market by Industry
 - 5.3.1. Aerospace Enterprise Quantum Computing Revenue by Product Type

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Table of Content (3/3)

5.3.2. Agriculture Enterprise Quantum Computing Revenue by Product Type	Revenue by Product Type	Computing Software	Software Revenue by Industry
5.3.3. Automotive Enterprise Quantum Computing Revenue by Product Type	5.3.10. Life Sciences Enterprise Quantum Computing Revenue by Product Type	Market: Top Industries and Use Cases	5.6. Conclusions and Recommendations
5.3.4. Energy Enterprise Quantum Computing Revenue by Product Type	5.3.11. Logistics Enterprise Quantum Computing Revenue by Product Type	5.4.1. Enterprise Quantum Computing Software Revenue by Industry	6. Company Directory
5.3.5. Finance Industry Enterprise Quantum Computing Revenue by Product Type	5.3.12. Manufacturing Enterprise Quantum Computing Revenue by Product Type	5.4.2. Enterprise Quantum Computing Software Use Cases	7. Acronym and Abbreviation List
5.3.6. Gaming Enterprise Quantum Computing Revenue by Product Type	5.3.13. Oil, Gas, and Mining Enterprise Quantum Computing Revenue by Product Type	5.5. Regional Enterprise Quantum Computing Software Markets	8. Table of Contents
5.3.7. Healthcare Enterprise Quantum Computing Revenue by Product Type	5.3.14. Telecommunications Enterprise Quantum Computing Revenue by Product Type	5.5.1. North America: Enterprise Quantum Computing Software Revenue by Industry	9. Table of Charts and Figures
5.3.8. IT Enterprise Quantum Computing Revenue by Product Type	5.3.15. Transportation Enterprise Quantum Computing Revenue by Product Type	5.5.2. Europe: Enterprise Quantum Computing Software Revenue by Industry	10. Scope of Study, Sources and Methodology, Notes
5.3.9. Investment Enterprise Quantum Computing	5.4. Global Enterprise Quantum	5.5.3. Asia Pacific: Enterprise Quantum Computing Software Revenue by Industry	
		5.5.4. Latin America: Enterprise Quantum Computing Software Revenue by Industry	
		5.5.5. Middle East & Africa: Enterprise Quantum Computing	

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Tables (1/3)

- Total Enterprise Quantum Computing Revenue by Region, World Markets: 2018-2030
- Total Enterprise Quantum Computing Revenue by Industry, World Markets: 2018-2030
- Total Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Enterprise Quantum Computing Software Revenue by Region, World Markets: 2018-2030
- Aerospace Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Agriculture Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Automotive Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Energy Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Finance Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Gaming Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Healthcare Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Information Technology Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Investment Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Life Sciences Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Logistics Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Manufacturing Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Telecommunications Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Transportation Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, World Markets: 2018-2030
- Enterprise Quantum Computing Software Revenue by Use Case, World Markets: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Finance Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Software Revenue by Use Case, North America: 2018-2030

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Tables (2/3)

- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Telecommunications Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Transportation Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Finance Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Telecommunications Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Transportation Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Finance Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030

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Tables (3/3)

- Finance Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Telecommunications Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Transportation Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Finance Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Telecommunications Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Transportation Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, North America: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, Europe: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, Asia Pacific: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, Latin America: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, Middle East & Africa: 2018-2030

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Charts (1/3)

- Total Enterprise Quantum Computing Revenue by Region, World Markets: 2018-2030
- Total Enterprise Quantum Computing Revenue by Industry, World Markets: 2018-2030
- Total Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Enterprise Quantum Computing Software Revenue by Region, World Markets: 2018-2030
- Aerospace Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Agriculture Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Automotive Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Energy Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Finance Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Gaming Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Healthcare Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Information Technology Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Investment Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Life Sciences Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Logistics Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Manufacturing Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Telecommunications Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Transportation Enterprise Quantum Computing Revenue by Product Type, World Markets: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, World Markets: 2018-2030
- Enterprise Quantum Computing Software Use Cases with >\$100 Million in Cumulative Revenue by Use Case, World Markets: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, North America: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, Europe: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, Asia Pacific: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, Latin America: 2018-2030
- Enterprise Quantum Computing Software Revenue by Industry, Middle East & Africa: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Finance Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030

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ABOUT OMDIA

Omdia is a global technology research powerhouse, established following the merger of the research division of Informa Tech (Ovum, Heavy Reading, and Tractica) and the acquired Omdia technology research portfolio.* We combine the expertise of more than 400 analysts across the entire technology spectrum, covering 150 markets. We publish over 3,000 research reports annually, reaching more than 14,000 subscribers, and cover thousands of technology, media, and telecommunications companies. Our exhaustive intelligence and deep technology expertise enable us to uncover actionable insights that help our customers connect the dots in today's constantly evolving technology environment and empower them to improve their businesses—today and tomorrow.

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Charts (2/3)

- Investment Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Telecommunications Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Transportation Enterprise Quantum Computing Software Revenue by Use Case, North America: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Finance Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Telecommunications Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Computing Software Revenue by Use Case, Europe: 2018-2030
- Transportation Enterprise Quantum Computing Software Revenue by Use Case, Europe: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Finance Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030

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Charts (3/3)

- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Telecommunications Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Transportation Enterprise Quantum Computing Software Revenue by Use Case, Asia Pacific: 2018-2030
- Aerospace Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Agriculture Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Automotive Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Energy Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Finance Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, Latin America: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Gaming Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Healthcare Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Information Technology Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Investment Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Life Sciences Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Logistics Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Manufacturing Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Oil, Gas, and Mining Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Telecommunications Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030
- Transportation Enterprise Quantum Computing Software Revenue by Use Case, Middle East & Africa: 2018-2030

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