

Global Portable Quantum Computer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Portable Quantum Computer market size was valued at US\$ 1621 million in 2025 and is forecast to a readjusted size of US\$ 4617 million by 2032 with a CAGR of 16.2% during review period.

Portable quantum computers refer to compact or semi-mobile quantum computing systems designed to operate outside traditional large-scale laboratory environments, enabling deployment in field research, defense applications, and edge computing scenarios. These systems typically leverage technologies such as photonic quantum computing, trapped ions, or compact superconducting architectures combined with miniaturized cryogenic or cooling solutions. While still in early-stage commercialization, portable quantum systems aim to provide on-site quantum processing capabilities for specialized tasks such as secure communication, optimization problems, and quantum sensing integration. From a value chain perspective, upstream includes quantum chips, cryogenic systems, photonic components, and control electronics; midstream involves system integration, software stack development, and quantum algorithms; downstream demand comes from research institutions, government agencies, defense sectors, and advanced industrial users. In 2025, the average selling price is approximately US\$1.25 million per unit, with global shipments around 1,260 units. The industry maintains gross margins of 35%-55%, supported by high technical barriers, limited competition, and strategic funding.

This report is a detailed and comprehensive analysis for global Portable Quantum Computer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Portable Quantum Computer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Portable Quantum Computer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Portable Quantum Computer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Portable Quantum Computer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Portable Quantum Computer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Portable Quantum Computer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include IBM Quantum, D-Wave Systems, IonQ, Rigetti Computing, Quantinuum, Xanadu, PsiQuantum, Oxford Quantum Circuits, Pasqal, Alibaba Quantum Laboratory, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Portable Quantum Computer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Photonic Quantum

Trapped Ion

Superconducting

Neutral Atom

Market segment by Mobility Level

Desktop Quantum Systems

Rack-mounted Portable

Field-deployable Systems

Market segment by System Scale

Small-scale (

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Portable Quantum Computer Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Photonic Quantum

1.3.3 Trapped Ion

1.3.4 Superconducting

1.3.5 Neutral Atom

1.4 Market Analysis by Mobility Level

1.4.1 Overview: Global Portable Quantum Computer Consumption Value by Mobility Level: 2021 Versus 2025 Versus 2032

1.4.2 Desktop Quantum Systems

1.4.3 Rack-mounted Portable

1.4.4 Field-deployable Systems

1.5 Market Analysis by System Scale

1.5.1 Overview: Global Portable Quantum Computer Consumption Value by System Scale: 2021 Versus 2025 Versus 2032

1.5.2 Small-scale (

List Of Tables

LIST OF TABLES

Table 1. Global Portable Quantum Computer Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Portable Quantum Computer Consumption Value by Mobility Level, (USD Million), 2021 & 2025 & 2032

Table 3. Global Portable Quantum Computer Consumption Value by System Scale, (USD Million), 2021 & 2025 & 2032

Table 4. Global Portable Quantum Computer Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. IBM Quantum Basic Information, Manufacturing Base and Competitors

Table 6. IBM Quantum Major Business

Table 7. IBM Quantum Portable Quantum Computer Product and Services

Table 8. IBM Quantum Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. IBM Quantum Recent Developments/Updates

Table 10. D-Wave Systems Basic Information, Manufacturing Base and Competitors

Table 11. D-Wave Systems Major Business

Table 12. D-Wave Systems Portable Quantum Computer Product and Services

Table 13. D-Wave Systems Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. D-Wave Systems Recent Developments/Updates

Table 15. IonQ Basic Information, Manufacturing Base and Competitors

Table 16. IonQ Major Business

Table 17. IonQ Portable Quantum Computer Product and Services

Table 18. IonQ Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. IonQ Recent Developments/Updates

Table 20. Rigetti Computing Basic Information, Manufacturing Base and Competitors

Table 21. Rigetti Computing Major Business

Table 22. Rigetti Computing Portable Quantum Computer Product and Services

Table 23. Rigetti Computing Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Rigetti Computing Recent Developments/Updates

Table 25. Quantinuum Basic Information, Manufacturing Base and Competitors
Table 26. Quantinuum Major Business
Table 27. Quantinuum Portable Quantum Computer Product and Services
Table 28. Quantinuum Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Quantinuum Recent Developments/Updates
Table 30. Xanadu Basic Information, Manufacturing Base and Competitors
Table 31. Xanadu Major Business
Table 32. Xanadu Portable Quantum Computer Product and Services
Table 33. Xanadu Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Xanadu Recent Developments/Updates
Table 35. PsiQuantum Basic Information, Manufacturing Base and Competitors
Table 36. PsiQuantum Major Business
Table 37. PsiQuantum Portable Quantum Computer Product and Services
Table 38. PsiQuantum Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. PsiQuantum Recent Developments/Updates
Table 40. Oxford Quantum Circuits Basic Information, Manufacturing Base and Competitors
Table 41. Oxford Quantum Circuits Major Business
Table 42. Oxford Quantum Circuits Portable Quantum Computer Product and Services
Table 43. Oxford Quantum Circuits Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. Oxford Quantum Circuits Recent Developments/Updates
Table 45. Pasqal Basic Information, Manufacturing Base and Competitors
Table 46. Pasqal Major Business
Table 47. Pasqal Portable Quantum Computer Product and Services
Table 48. Pasqal Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Pasqal Recent Developments/Updates
Table 50. Alibaba Quantum Laboratory Basic Information, Manufacturing Base and Competitors
Table 51. Alibaba Quantum Laboratory Major Business
Table 52. Alibaba Quantum Laboratory Portable Quantum Computer Product and Services

Table 53. Alibaba Quantum Laboratory Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Alibaba Quantum Laboratory Recent Developments/Updates

Table 55. Origin Quantum Basic Information, Manufacturing Base and Competitors

Table 56. Origin Quantum Major Business

Table 57. Origin Quantum Portable Quantum Computer Product and Services

Table 58. Origin Quantum Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Origin Quantum Recent Developments/Updates

Table 60. SpinQ Technology Basic Information, Manufacturing Base and Competitors

Table 61. SpinQ Technology Major Business

Table 62. SpinQ Technology Portable Quantum Computer Product and Services

Table 63. SpinQ Technology Portable Quantum Computer Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. SpinQ Technology Recent Developments/Updates

Table 65. Global Portable Quantum Computer Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 66. Global Portable Quantum Computer Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Portable Quantum Computer Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 68. Market Position of Manufacturers in Portable Quantum Computer, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Portable Quantum Computer Production Site of Key Manufacturer

Table 70. Portable Quantum Computer Market: Company Product Type Footprint

Table 71. Portable Quantum Computer Market: Company Product Application Footprint

Table 72. Portable Quantum Computer New Market Entrants and Barriers to Market Entry

Table 73. Portable Quantum Computer Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Portable Quantum Computer Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Portable Quantum Computer Sales Quantity by Region (2021-2026) & (Units)

Table 76. Global Portable Quantum Computer Sales Quantity by Region (2027-2032) &

(Units)

Table 77. Global Portable Quantum Computer Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Portable Quantum Computer Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Portable Quantum Computer Average Price by Region (2021-2026) & (K US\$/Unit)

Table 80. Global Portable Quantum Computer Average Price by Region (2027-2032) & (K US\$/Unit)

Table 81. Global Portable Quantum Computer Sales Quantity by Type (2021-2026) & (Units)

Table 82. Global Portable Quantum Computer Sales Quantity by Type (2027-2032) & (Units)

Table 83. Global Portable Quantum Computer Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Portable Quantum Computer Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Portable Quantum Computer Average Price by Type (2021-2026) & (K US\$/Unit)

Table 86. Global Portable Quantum Computer Average Price by Type (2027-2032) & (K US\$/Unit)

Table 87. Global Portable Quantum Computer Sales Quantity by Application (2021-2026) & (Units)

Table 88. Global Portable Quantum Computer Sales Quantity by Application (2027-2032) & (Units)

Table 89. Global Portable Quantum Computer Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Portable Quantum Computer Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Portable Quantum Computer Average Price by Application (2021-2026) & (K US\$/Unit)

Table 92. Global Portable Quantum Computer Average Price by Application (2027-2032) & (K US\$/Unit)

Table 93. North America Portable Quantum Computer Sales Quantity by Type (2021-2026) & (Units)

Table 94. North America Portable Quantum Computer Sales Quantity by Type (2027-2032) & (Units)

Table 95. North America Portable Quantum Computer Sales Quantity by Application (2021-2026) & (Units)

Table 96. North America Portable Quantum Computer Sales Quantity by Application (2027-2032) & (Units)

Table 97. North America Portable Quantum Computer Sales Quantity by Country (2021-2026) & (Units)

Table 98. North America Portable Quantum Computer Sales Quantity by Country (2027-2032) & (Units)

Table 99. North America Portable Quantum Computer Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Portable Quantum Computer Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Portable Quantum Computer Sales Quantity by Type (2021-2026) & (Units)

Table 102. Europe Portable Quantum Computer Sales Quantity by Type (2027-2032) & (Units)

Table 103. Europe Portable Quantum Computer Sales Quantity by Application (2021-2026) & (Units)

Table 104. Europe Portable Quantum Computer Sales Quantity by Application (2027-2032) & (Units)

Table 105. Europe Portable Quantum Computer Sales Quantity by Country (2021-2026) & (Units)

Table 106. Europe Portable Quantum Computer Sales Quantity by Country (2027-2032) & (Units)

Table 107. Europe Portable Quantum Computer Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Portable Quantum Computer Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Portable Quantum Computer Sales Quantity by Type (2021-2026) & (Units)

Table 110. Asia-Pacific Portable Quantum Computer Sales Quantity by Type (2027-2032) & (Units)

Table 111. Asia-Pacific Portable Quantum Computer Sales Quantity by Application (2021-2026) & (Units)

Table 112. Asia-Pacific Portable Quantum Computer Sales Quantity by Application (2027-2032) & (Units)

Table 113. Asia-Pacific Portable Quantum Computer Sales Quantity by Region (2021-2026) & (Units)

Table 114. Asia-Pacific Portable Quantum Computer Sales Quantity by Region (2027-2032) & (Units)

Table 115. Asia-Pacific Portable Quantum Computer Consumption Value by Region

(2021-2026) & (USD Million)

Table 116. Asia-Pacific Portable Quantum Computer Consumption Value by Region
(2027-2032) & (USD Million)

Table 117. South America Portable Quantum Computer Sales Quantity by Type
(2021-2026) & (Units)

Table 118. South America Portable Quantum Computer Sales Quantity by Type
(2027-2032) & (Units)

Table 119. South America Portable Quantum Computer Sales Quantity by Application
(2021-2026) & (Units)

Table 120. South America Portable Quantum Computer Sales Quantity by Application
(2027-2032) & (Units)

Table 121. South America Portable Quantum Computer Sales Quantity by Country
(2021-2026) & (Units)

Table 122. South America Portable Quantum Computer Sales Quantity by Country
(2027-2032) & (Units)

Table 123. South America Portable Quantum Computer Consumption Value by Country
(2021-2026) & (USD Million)

Table 124. South America Portable Quantum Computer Consumption Value by Country
(2027-2032) & (USD Million)

Table 125. Middle East & Africa Portable Quantum Computer Sales Quantity by Type
(2021-2026) & (Units)

Table 126. Middle East & Africa Portable Quantum Computer Sales Quantity by Type
(2027-2032) & (Units)

Table 127. Middle East & Africa Portable Quantum Computer Sales Quantity by
Application (2021-2026) & (Units)

Table 128. Middle East & Africa Portable Quantum Computer Sales Quantity by
Application (2027-2032) & (Units)

Table 129. Middle East & Africa Portable Quantum Computer Sales Quantity by Country
(2021-2026) & (Units)

Table 130. Middle East & Africa Portable Quantum Computer Sales Quantity by Country
(2027-2032) & (Units)

Table 131. Middle East & Africa Portable Quantum Computer Consumption Value by
Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Portable Quantum Computer Consumption Value by
Country (2027-2032) & (USD Million)

Table 133. Portable Quantum Computer Raw Material

Table 134. Key Manufacturers of Portable Quantum Computer Raw Materials

Table 135. Portable Quantum Computer Typical Distributors

Table 136. Portable Quantum Computer Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Portable Quantum Computer Picture

Figure 2. Global Portable Quantum Computer Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Portable Quantum Computer Revenue Market Share by Type in 2025

Figure 4. Photonic Quantum Examples

Figure 5. Trapped Ion Examples

Figure 6. Superconducting Examples

Figure 7. Neutral Atom Examples

Figure 8. Global Portable Quantum Computer Revenue by Mobility Level, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Portable Quantum Computer Revenue Market Share by Mobility Level in 2025

Figure 10. Desktop Quantum Systems Examples

Figure 11. Rack-mounted Portable Examples

Figure 12. Field-deployable Systems Examples

Figure 13. Global Portable Quantum Computer Revenue by System Scale, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Portable Quantum Computer Revenue Market Share by System Scale in 2025

Figure 15. Small-scale (

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