

Global Optical Quantum Computing Platform Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Optical Quantum Computing Platform market size is expected to reach \$ 47932 million by 2032, rising at a market growth of 29.8% CAGR during the forecast period (2026-2032).

An optical quantum computing platform refers to a computing system or cloud service platform that utilizes photons as carriers of quantum information. By employing components such as single-photon sources, entangled photon sources, optical chips, interferometers, phase modulators, optical switches, single-photon detectors, and quantum control software, it enables the preparation, manipulation, transmission, and measurement of quantum states, as well as the execution of quantum algorithms. Unlike other quantum computing approaches—such as those based on superconductivity or ion traps—optical quantum computing typically leverages the inherent properties of photons, including their coherence, low-noise transmission, and ease of operation at room temperature. It is applicable to tasks such as Boson sampling, Gaussian Boson sampling, quantum machine learning, quantum optimization, quantum simulation, quantum communication network nodes, and specific specialized quantum computing tasks. Consequently, it finds widespread application across various scenarios, including scientific research experiments, quantum algorithm verification, quantum information education, financial optimization, materials simulation, cryptography, and the future quantum internet.

The upstream segment of the optical quantum computing platform value chain primarily encompasses single-photon sources, entangled photon sources, lasers, optical crystals, silicon photonic chips, waveguides, beam splitters, phase modulators, optical switches, low-loss optical fibers, cryogenic and room-temperature single-photon detectors, control electronics, cryogenic systems, and quantum algorithm software. Among these

components, the capabilities for photon generation, manipulation, detection, and chip integration constitute the core technological pillars. The midstream segment consists of optical quantum computing hardware manufacturers, quantum cloud platforms, and quantum software tool providers, responsible for constructing optical quantum processors, photonic chip modules, quantum control systems, compilers, simulators, cloud access platforms, and application development frameworks. The downstream segment primarily targets applications in university research, national laboratories, quantum information studies, financial optimization, drug discovery, materials simulation, machine learning, cryptography, quantum communication networks, and high-performance computing centers. The gross profit margin for optical quantum computing platforms stands at approximately 63%.

From a technical perspective, the advantage of optical quantum computing platforms lies in the fact that photons are naturally suited for high-speed transmission, low-noise interconnection, and operation within optical circuits at room temperature. Compared to alternative approaches—such as superconducting circuits or ion traps—photonic quantum computing holds unique potential in the realms of quantum communication networks, distributed quantum computing, photonic chip integration, and remote cloud-based access. However, the technical challenges remain clearly defined, including the development of high-quality single-photon sources, low-loss optical pathways, scalable entanglement generation, high-efficiency single-photon detection, and fault-tolerant error correction systems. Currently, the industry is still in a transitional phase, moving from research-grade prototypes toward early-stage engineered platforms; while some companies already offer cloud access or deliver complete hardware systems, the field remains a considerable distance away from achieving large-scale, general-purpose, fault-tolerant quantum computing.

In terms of the industrial landscape, optical quantum computing platforms are establishing a commercial pathway characterized by a 'hardware platform + quantum software + cloud services + specialized applications' model. The most realistic direction for current commercialization is not to immediately displace classical computers, but rather to serve universities, national laboratories, cloud computing centers, and early-adopter industrial clients through cloud platforms, standalone research systems, hybrid HPC-QPU computing, and tools for quantum optimization and machine learning.

Regarding future trends, optical quantum computing platforms are expected to evolve along four distinct trajectories: integration onto photonic chips, deployment within data centers, specialized quantum acceleration, and the development of fault-tolerance capabilities. The primary focus of future competition will shift from merely demonstrating

'quantum advantage' to proving the ability to 'operate stably, integrate with cloud/HPC infrastructure, foster a reusable software ecosystem, and solve real-world optimization or simulation problems.' Consequently, companies possessing full-stack capabilities—spanning photonic chip fabrication, quantum light sources, detectors, control systems, and algorithmic software—are best positioned to establish sustainable, long-term competitive barriers.

This report studies the global Optical Quantum Computing Platform demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Optical Quantum Computing Platform, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Optical Quantum Computing Platform that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Optical Quantum Computing Platform total market, 2021-2032, (USD Million)

Global Optical Quantum Computing Platform total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Optical Quantum Computing Platform total market, key domestic companies, and share, (USD Million)

Global Optical Quantum Computing Platform revenue by player, revenue and market share 2021-2026, (USD Million)

Global Optical Quantum Computing Platform total market by Type, CAGR, 2021-2032, (USD Million)

Global Optical Quantum Computing Platform total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Optical Quantum Computing Platform market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include IBM, Google, Rigetti Computing, Xanadu Quantum Technologies, QuiX Quantum, D-Wave Quantum, QuTech, Quandela, PsiQuantum, Toshiba, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Optical Quantum Computing Platform market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Optical Quantum Computing Platform Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Optical Quantum Computing Platform Market, Segmentation by Type:

Quantum Communication Service

Quantum Simulation Service

Global Optical Quantum Computing Platform Market, Segmentation by Qubit:

Small-Scale Prototype Platforms (

Medium-Scale Platforms (50–500 Qubits)

Large-Scale Platforms (> 500 Qubits)

Global Optical Quantum Computing Platform Market, Segmentation by Deployment Method:

Local Laboratory Platform

Cloud Access Platform

Dedicated All-in-One Appliance Platform

Global Optical Quantum Computing Platform Market, Segmentation by Application:

Financial Service

Pharmaceuticals and Life Sciences

Research Institutes and Universities

Communications Industry

Companies Profiled:

IBM

Google

Rigetti Computing

Xanadu Quantum Technologies

QuiX Quantum

D-Wave Quantum

QuTech

Quandela

PsiQuantum

Toshiba

IONQ

ORCA Computing

TuringQ

QBoson

OptQC

Key Questions Answered

1. How big is the global Optical Quantum Computing Platform market?
2. What is the demand of the global Optical Quantum Computing Platform market?
3. What is the year over year growth of the global Optical Quantum Computing Platform market?
4. What is the total value of the global Optical Quantum Computing Platform market?
5. Who are the Major Players in the global Optical Quantum Computing Platform market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Optical Quantum Computing Platform Introduction
- 1.2 World Optical Quantum Computing Platform Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Optical Quantum Computing Platform Total Market by Region (by Headquarter Location)
 - 1.3.1 World Optical Quantum Computing Platform Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Optical Quantum Computing Platform Revenue (2021-2032)
 - 1.3.3 China Based Company Optical Quantum Computing Platform Revenue (2021-2032)
 - 1.3.4 Europe Based Company Optical Quantum Computing Platform Revenue (2021-2032)
 - 1.3.5 Japan Based Company Optical Quantum Computing Platform Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Optical Quantum Computing Platform Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Optical Quantum Computing Platform Revenue (2021-2032)
 - 1.3.8 India Based Company Optical Quantum Computing Platform Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Optical Quantum Computing Platform Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Optical Quantum Computing Platform Consumption Value (2021-2032)
- 2.2 World Optical Quantum Computing Platform Consumption Value by Region
 - 2.2.1 World Optical Quantum Computing Platform Consumption Value by Region (2021-2026)
 - 2.2.2 World Optical Quantum Computing Platform Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Optical Quantum Computing Platform Consumption Value

(2021-2032)

2.4 China Optical Quantum Computing Platform Consumption Value (2021-2032)

2.5 Europe Optical Quantum Computing Platform Consumption Value (2021-2032)

2.6 Japan Optical Quantum Computing Platform Consumption Value (2021-2032)

2.7 South Korea Optical Quantum Computing Platform Consumption Value (2021-2032)

2.8 ASEAN Optical Quantum Computing Platform Consumption Value (2021-2032)

2.9 India Optical Quantum Computing Platform Consumption Value (2021-2032)

3 WORLD OPTICAL QUANTUM COMPUTING PLATFORM COMPANIES COMPETITIVE ANALYSIS

3.1 World Optical Quantum Computing Platform Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Optical Quantum Computing Platform Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Optical Quantum Computing Platform in 2025

3.2.3 Global Concentration Ratios (CR8) for Optical Quantum Computing Platform in 2025

3.3 Optical Quantum Computing Platform Company Evaluation Quadrant

3.4 Optical Quantum Computing Platform Market: Overall Company Footprint Analysis

3.4.1 Optical Quantum Computing Platform Market: Region Footprint

3.4.2 Optical Quantum Computing Platform Market: Company Product Type Footprint

3.4.3 Optical Quantum Computing Platform Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Optical Quantum Computing Platform Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Optical Quantum Computing Platform Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Optical Quantum Computing Platform Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Optical Quantum Computing Platform Consumption Value Comparison

4.2.1 United States VS China: Optical Quantum Computing Platform Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Optical Quantum Computing Platform Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Optical Quantum Computing Platform Companies and Market Share, 2021-2026

4.3.1 United States Based Optical Quantum Computing Platform Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Optical Quantum Computing Platform Revenue, (2021-2026)

4.4 China Based Companies Optical Quantum Computing Platform Revenue and Market Share, 2021-2026

4.4.1 China Based Optical Quantum Computing Platform Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Optical Quantum Computing Platform Revenue, (2021-2026)

4.5 Rest of World Based Optical Quantum Computing Platform Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Optical Quantum Computing Platform Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Optical Quantum Computing Platform Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Optical Quantum Computing Platform Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Quantum Communication Service

5.2.2 Quantum Simulation Service

5.3 Market Segment by Type

5.3.1 World Optical Quantum Computing Platform Market Size by Type (2021-2026)

5.3.2 World Optical Quantum Computing Platform Market Size by Type (2027-2032)

5.3.3 World Optical Quantum Computing Platform Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY QUBIT

6.1 World Optical Quantum Computing Platform Market Size Overview by Qubit: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Qubit

6.2.1 Small-Scale Prototype Platforms () 6.2.2 Medium-Scale Platforms (50–500 Qubits)

6.2.3 Large-Scale Platforms (> 500 Qubits)

6.3 Market Segment by Qubit

6.3.1 World Optical Quantum Computing Platform Market Size by Qubit (2021-2026)

6.3.2 World Optical Quantum Computing Platform Market Size by Qubit (2027-2032)

6.3.3 World Optical Quantum Computing Platform Market Size Market Share by Qubit (2027-2032)

7 MARKET ANALYSIS BY DEPLOYMENT METHOD

7.1 World Optical Quantum Computing Platform Market Size Overview by Deployment Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Deployment Method

7.2.1 Local Laboratory Platform

7.2.2 Cloud Access Platform

7.2.3 Dedicated All-in-One Appliance Platform

7.3 Market Segment by Deployment Method

7.3.1 World Optical Quantum Computing Platform Market Size by Deployment Method (2021-2026)

7.3.2 World Optical Quantum Computing Platform Market Size by Deployment Method (2027-2032)

7.3.3 World Optical Quantum Computing Platform Market Size Market Share by Deployment Method (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Optical Quantum Computing Platform Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Financial Service

8.2.2 Pharmaceuticals and Life Sciences

8.2.3 Research Institutes and Universities

8.2.4 Communications Industry

8.3 Market Segment by Application

8.3.1 World Optical Quantum Computing Platform Market Size by Application (2021-2026)

8.3.2 World Optical Quantum Computing Platform Market Size by Application (2027-2032)

8.3.3 World Optical Quantum Computing Platform Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 IBM

9.1.1 IBM Details

9.1.2 IBM Major Business

9.1.3 IBM Optical Quantum Computing Platform Product and Services

9.1.4 IBM Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 IBM Recent Developments/Updates

9.1.6 IBM Competitive Strengths & Weaknesses

9.2 Google

9.2.1 Google Details

9.2.2 Google Major Business

9.2.3 Google Optical Quantum Computing Platform Product and Services

9.2.4 Google Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Google Recent Developments/Updates

9.2.6 Google Competitive Strengths & Weaknesses

9.3 Rigetti Computing

9.3.1 Rigetti Computing Details

9.3.2 Rigetti Computing Major Business

9.3.3 Rigetti Computing Optical Quantum Computing Platform Product and Services

9.3.4 Rigetti Computing Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Rigetti Computing Recent Developments/Updates

9.3.6 Rigetti Computing Competitive Strengths & Weaknesses

9.4 Xanadu Quantum Technologies

9.4.1 Xanadu Quantum Technologies Details

9.4.2 Xanadu Quantum Technologies Major Business

9.4.3 Xanadu Quantum Technologies Optical Quantum Computing Platform Product and Services

9.4.4 Xanadu Quantum Technologies Optical Quantum Computing Platform Revenue,

Gross Margin and Market Share (2021-2026)

9.4.5 Xanadu Quantum Technologies Recent Developments/Updates

9.4.6 Xanadu Quantum Technologies Competitive Strengths & Weaknesses

9.5 QuiX Quantum

9.5.1 QuiX Quantum Details

9.5.2 QuiX Quantum Major Business

9.5.3 QuiX Quantum Optical Quantum Computing Platform Product and Services

9.5.4 QuiX Quantum Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 QuiX Quantum Recent Developments/Updates

9.5.6 QuiX Quantum Competitive Strengths & Weaknesses

9.6 D-Wave Quantum

9.6.1 D-Wave Quantum Details

9.6.2 D-Wave Quantum Major Business

9.6.3 D-Wave Quantum Optical Quantum Computing Platform Product and Services

9.6.4 D-Wave Quantum Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.6.5 D-Wave Quantum Recent Developments/Updates

9.6.6 D-Wave Quantum Competitive Strengths & Weaknesses

9.7 QuTech

9.7.1 QuTech Details

9.7.2 QuTech Major Business

9.7.3 QuTech Optical Quantum Computing Platform Product and Services

9.7.4 QuTech Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.7.5 QuTech Recent Developments/Updates

9.7.6 QuTech Competitive Strengths & Weaknesses

9.8 Quandela

9.8.1 Quandela Details

9.8.2 Quandela Major Business

9.8.3 Quandela Optical Quantum Computing Platform Product and Services

9.8.4 Quandela Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.8.5 Quandela Recent Developments/Updates

9.8.6 Quandela Competitive Strengths & Weaknesses

9.9 PsiQuantum

9.9.1 PsiQuantum Details

9.9.2 PsiQuantum Major Business

9.9.3 PsiQuantum Optical Quantum Computing Platform Product and Services

9.9.4 PsiQuantum Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.9.5 PsiQuantum Recent Developments/Updates

9.9.6 PsiQuantum Competitive Strengths & Weaknesses

9.10 Toshiba

9.10.1 Toshiba Details

9.10.2 Toshiba Major Business

9.10.3 Toshiba Optical Quantum Computing Platform Product and Services

9.10.4 Toshiba Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 Toshiba Recent Developments/Updates

9.10.6 Toshiba Competitive Strengths & Weaknesses

9.11 IONQ

9.11.1 IONQ Details

9.11.2 IONQ Major Business

9.11.3 IONQ Optical Quantum Computing Platform Product and Services

9.11.4 IONQ Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 IONQ Recent Developments/Updates

9.11.6 IONQ Competitive Strengths & Weaknesses

9.12 ORCA Computing

9.12.1 ORCA Computing Details

9.12.2 ORCA Computing Major Business

9.12.3 ORCA Computing Optical Quantum Computing Platform Product and Services

9.12.4 ORCA Computing Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 ORCA Computing Recent Developments/Updates

9.12.6 ORCA Computing Competitive Strengths & Weaknesses

9.13 TuringQ

9.13.1 TuringQ Details

9.13.2 TuringQ Major Business

9.13.3 TuringQ Optical Quantum Computing Platform Product and Services

9.13.4 TuringQ Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 TuringQ Recent Developments/Updates

9.13.6 TuringQ Competitive Strengths & Weaknesses

9.14 QBoson

9.14.1 QBoson Details

9.14.2 QBoson Major Business

- 9.14.3 QBoson Optical Quantum Computing Platform Product and Services
- 9.14.4 QBoson Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)
- 9.14.5 QBoson Recent Developments/Updates
- 9.14.6 QBoson Competitive Strengths & Weaknesses
- 9.15 OptQC
 - 9.15.1 OptQC Details
 - 9.15.2 OptQC Major Business
 - 9.15.3 OptQC Optical Quantum Computing Platform Product and Services
 - 9.15.4 OptQC Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026)
 - 9.15.5 OptQC Recent Developments/Updates
 - 9.15.6 OptQC Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Optical Quantum Computing Platform Industry Chain
- 10.2 Optical Quantum Computing Platform Upstream Analysis
- 10.3 Optical Quantum Computing Platform Midstream Analysis
- 10.4 Optical Quantum Computing Platform Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Optical Quantum Computing Platform Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
- Table 2. World Optical Quantum Computing Platform Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)
- Table 3. World Optical Quantum Computing Platform Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)
- Table 4. World Optical Quantum Computing Platform Revenue Market Share by Region (2021-2026), (by Headquarter Location)
- Table 5. World Optical Quantum Computing Platform Revenue Market Share by Region (2027-2032), (by Headquarter Location)
- Table 6. Major Market Trends
- Table 7. World Optical Quantum Computing Platform Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)
- Table 8. World Optical Quantum Computing Platform Consumption Value by Region (2021-2026) & (USD Million)
- Table 9. World Optical Quantum Computing Platform Consumption Value Forecast by Region (2027-2032) & (USD Million)
- Table 10. World Optical Quantum Computing Platform Revenue by Player (2021-2026) & (USD Million)
- Table 11. Revenue Market Share of Key Optical Quantum Computing Platform Players in 2025
- Table 12. World Optical Quantum Computing Platform Industry Rank of Major Player, Based on Revenue in 2025
- Table 13. Global Optical Quantum Computing Platform Company Evaluation Quadrant
- Table 14. Head Office of Key Optical Quantum Computing Platform Players
- Table 15. Optical Quantum Computing Platform Market: Company Product Type Footprint
- Table 16. Optical Quantum Computing Platform Market: Company Product Application Footprint
- Table 17. Optical Quantum Computing Platform Mergers & Acquisitions Activity
- Table 18. United States VS China Optical Quantum Computing Platform Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 19. United States VS China Optical Quantum Computing Platform Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 20. United States Based Optical Quantum Computing Platform Companies,

Headquarters (States, Country)

Table 21. United States Based Companies Optical Quantum Computing Platform Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Optical Quantum Computing Platform Revenue Market Share (2021-2026)

Table 23. China Based Optical Quantum Computing Platform Companies, Headquarters (Province, Country)

Table 24. China Based Companies Optical Quantum Computing Platform Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Optical Quantum Computing Platform Revenue Market Share (2021-2026)

Table 26. Rest of World Based Optical Quantum Computing Platform Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Optical Quantum Computing Platform Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Optical Quantum Computing Platform Revenue Market Share (2021-2026)

Table 29. World Optical Quantum Computing Platform Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Optical Quantum Computing Platform Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Optical Quantum Computing Platform Market Size by Type (2027-2032) & (USD Million)

Table 32. World Optical Quantum Computing Platform Market Size by Qubit, (USD Million), 2021 & 2025 & 2032

Table 33. World Optical Quantum Computing Platform Market Size Value by Qubit (2021-2026) & (USD Million)

Table 34. World Optical Quantum Computing Platform Market Size by Qubit (2027-2032) & (USD Million)

Table 35. World Optical Quantum Computing Platform Market Size by Deployment Method, (USD Million), 2021 & 2025 & 2032

Table 36. World Optical Quantum Computing Platform Market Size Value by Deployment Method (2021-2026) & (USD Million)

Table 37. World Optical Quantum Computing Platform Market Size by Deployment Method (2027-2032) & (USD Million)

Table 38. World Optical Quantum Computing Platform Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Optical Quantum Computing Platform Market Size by Application (2021-2026) & (USD Million)

Table 40. World Optical Quantum Computing Platform Market Size by Application (2027-2032) & (USD Million)

Table 41. IBM Basic Information, Manufacturing Base and Competitors

Table 42. IBM Major Business

Table 43. IBM Optical Quantum Computing Platform Product and Services

Table 44. IBM Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. IBM Recent Developments/Updates

Table 46. IBM Competitive Strengths & Weaknesses

Table 47. Google Basic Information, Manufacturing Base and Competitors

Table 48. Google Major Business

Table 49. Google Optical Quantum Computing Platform Product and Services

Table 50. Google Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Google Recent Developments/Updates

Table 52. Google Competitive Strengths & Weaknesses

Table 53. Rigetti Computing Basic Information, Manufacturing Base and Competitors

Table 54. Rigetti Computing Major Business

Table 55. Rigetti Computing Optical Quantum Computing Platform Product and Services

Table 56. Rigetti Computing Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Rigetti Computing Recent Developments/Updates

Table 58. Rigetti Computing Competitive Strengths & Weaknesses

Table 59. Xanadu Quantum Technologies Basic Information, Manufacturing Base and Competitors

Table 60. Xanadu Quantum Technologies Major Business

Table 61. Xanadu Quantum Technologies Optical Quantum Computing Platform Product and Services

Table 62. Xanadu Quantum Technologies Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Xanadu Quantum Technologies Recent Developments/Updates

Table 64. Xanadu Quantum Technologies Competitive Strengths & Weaknesses

Table 65. QuiX Quantum Basic Information, Manufacturing Base and Competitors

Table 66. QuiX Quantum Major Business

Table 67. QuiX Quantum Optical Quantum Computing Platform Product and Services

Table 68. QuiX Quantum Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. QuiX Quantum Recent Developments/Updates

- Table 70. QuiX Quantum Competitive Strengths & Weaknesses
- Table 71. D-Wave Quantum Basic Information, Manufacturing Base and Competitors
- Table 72. D-Wave Quantum Major Business
- Table 73. D-Wave Quantum Optical Quantum Computing Platform Product and Services
- Table 74. D-Wave Quantum Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 75. D-Wave Quantum Recent Developments/Updates
- Table 76. D-Wave Quantum Competitive Strengths & Weaknesses
- Table 77. QuTech Basic Information, Manufacturing Base and Competitors
- Table 78. QuTech Major Business
- Table 79. QuTech Optical Quantum Computing Platform Product and Services
- Table 80. QuTech Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. QuTech Recent Developments/Updates
- Table 82. QuTech Competitive Strengths & Weaknesses
- Table 83. Quandela Basic Information, Manufacturing Base and Competitors
- Table 84. Quandela Major Business
- Table 85. Quandela Optical Quantum Computing Platform Product and Services
- Table 86. Quandela Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. Quandela Recent Developments/Updates
- Table 88. Quandela Competitive Strengths & Weaknesses
- Table 89. PsiQuantum Basic Information, Manufacturing Base and Competitors
- Table 90. PsiQuantum Major Business
- Table 91. PsiQuantum Optical Quantum Computing Platform Product and Services
- Table 92. PsiQuantum Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. PsiQuantum Recent Developments/Updates
- Table 94. PsiQuantum Competitive Strengths & Weaknesses
- Table 95. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 96. Toshiba Major Business
- Table 97. Toshiba Optical Quantum Computing Platform Product and Services
- Table 98. Toshiba Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. Toshiba Recent Developments/Updates
- Table 100. Toshiba Competitive Strengths & Weaknesses
- Table 101. IONQ Basic Information, Manufacturing Base and Competitors
- Table 102. IONQ Major Business

- Table 103. IONQ Optical Quantum Computing Platform Product and Services
- Table 104. IONQ Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 105. IONQ Recent Developments/Updates
- Table 106. IONQ Competitive Strengths & Weaknesses
- Table 107. ORCA Computing Basic Information, Manufacturing Base and Competitors
- Table 108. ORCA Computing Major Business
- Table 109. ORCA Computing Optical Quantum Computing Platform Product and Services
- Table 110. ORCA Computing Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 111. ORCA Computing Recent Developments/Updates
- Table 112. ORCA Computing Competitive Strengths & Weaknesses
- Table 113. TuringQ Basic Information, Manufacturing Base and Competitors
- Table 114. TuringQ Major Business
- Table 115. TuringQ Optical Quantum Computing Platform Product and Services
- Table 116. TuringQ Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 117. TuringQ Recent Developments/Updates
- Table 118. TuringQ Competitive Strengths & Weaknesses
- Table 119. QBoson Basic Information, Manufacturing Base and Competitors
- Table 120. QBoson Major Business
- Table 121. QBoson Optical Quantum Computing Platform Product and Services
- Table 122. QBoson Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 123. QBoson Recent Developments/Updates
- Table 124. QBoson Competitive Strengths & Weaknesses
- Table 125. OptQC Basic Information, Manufacturing Base and Competitors
- Table 126. OptQC Major Business
- Table 127. OptQC Optical Quantum Computing Platform Product and Services
- Table 128. OptQC Optical Quantum Computing Platform Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 129. OptQC Recent Developments/Updates
- Table 130. OptQC Competitive Strengths & Weaknesses
- Table 131. Global Key Players of Optical Quantum Computing Platform Upstream (Raw Materials)
- Table 132. Global Optical Quantum Computing Platform Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Optical Quantum Computing Platform Picture

Figure 2. World Optical Quantum Computing Platform Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Optical Quantum Computing Platform Total Revenue (2021-2032) & (USD Million)

Figure 4. World Optical Quantum Computing Platform Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Optical Quantum Computing Platform Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Optical Quantum Computing Platform Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Optical Quantum Computing Platform Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Optical Quantum Computing Platform Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Optical Quantum Computing Platform Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Optical Quantum Computing Platform Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Optical Quantum Computing Platform Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Optical Quantum Computing Platform Revenue (2021-2032) & (USD Million)

Figure 13. Optical Quantum Computing Platform Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Optical Quantum Computing Platform Consumption Value (2021-2032) & (USD Million)

Figure 16. World Optical Quantum Computing Platform Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Optical Quantum Computing Platform Consumption Value (2021-2032) & (USD Million)

Figure 18. China Optical Quantum Computing Platform Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Optical Quantum Computing Platform Consumption Value (2021-2032) & (USD Million)

- Figure 20. Japan Optical Quantum Computing Platform Consumption Value (2021-2032) & (USD Million)
- Figure 21. South Korea Optical Quantum Computing Platform Consumption Value (2021-2032) & (USD Million)
- Figure 22. ASEAN Optical Quantum Computing Platform Consumption Value (2021-2032) & (USD Million)
- Figure 23. India Optical Quantum Computing Platform Consumption Value (2021-2032) & (USD Million)
- Figure 24. Producer Shipments of Optical Quantum Computing Platform by Player Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for Optical Quantum Computing Platform Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for Optical Quantum Computing Platform Markets in 2025
- Figure 27. United States VS China: Optical Quantum Computing Platform Revenue Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Optical Quantum Computing Platform Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. World Optical Quantum Computing Platform Market Size by Type, (USD Million), 2021 & 2025 & 2032
- Figure 30. World Optical Quantum Computing Platform Market Size Market Share by Type in 2025
- Figure 31. Quantum Communication Service
- Figure 32. Quantum Simulation Service
- Figure 33. World Optical Quantum Computing Platform Market Size Market Share by Type (2021-2032)
- Figure 34. World Optical Quantum Computing Platform Market Size by Qubit, (USD Million), 2021 & 2025 & 2032
- Figure 35. World Optical Quantum Computing Platform Market Size Market Share by Qubit in 2025
- Figure 36. Small-Scale Prototype Platforms (Figure 37. Medium-Scale Platforms (50–500 Qubits)
- Figure 38. Large-Scale Platforms (> 500 Qubits)
- Figure 39. World Optical Quantum Computing Platform Market Size Market Share by Qubit (2021-2032)
- Figure 40. World Optical Quantum Computing Platform Market Size by Deployment Method, (USD Million), 2021 & 2025 & 2032
- Figure 41. World Optical Quantum Computing Platform Market Size Market Share by Deployment Method in 2025

Figure 42. Local Laboratory Platform

Figure 43. Cloud Access Platform

Figure 44. Dedicated All-in-One Appliance Platform

Figure 45. World Optical Quantum Computing Platform Market Size Market Share by Deployment Method (2021-2032)

Figure 46. World Optical Quantum Computing Platform Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 47. World Optical Quantum Computing Platform Market Size Market Share by Application in 2025

Figure 48. Financial Service

Figure 49. Pharmaceuticals and Life Sciences

Figure 50. Research Institutes and Universities

Figure 51. Communications Industry

Figure 52. World Optical Quantum Computing Platform Market Size Market Share by Application (2021-2032)

Figure 53. Optical Quantum Computing Platform Industrial Chain

Figure 54. Methodology

Figure 55. Research Process and Data Source

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