

Global Photonic Quantum Chip Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Photonic Quantum Chip competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, the global production of photonic quantum chips will reach 50,100, with an average selling price of US\$10,000 per chip. An optical quantum chip is an integrated microchip that uses photons (light quanta) as information carriers, enabling applications such as quantum computing, quantum communication, and quantum sensing. It precisely controls the generation, transmission, interference, and detection of photons within micro- and nanoscale optical waveguides, interferometers, microcavities, or superconducting optical structures, enabling the generation, manipulation, and measurement of quantum states. Optical quantum chips offer strong parallel processing capabilities, high interference immunity, and low energy consumption, making them a core component of optical quantum information technology and future quantum computers, quantum networks, and high-precision quantum sensors.

The global Photonic Quantum Chip market size was estimated at USD 501.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 20.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Photonic Quantum Chip market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Photonic Quantum Chip market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Photonic Quantum Chip market.

Global Photonic Quantum Chip Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Xanadu
PsiQuantum
QuiX Quantum
ORCA Computing
Quantum Source
NTT
Toshiba
NEC

Intel
IBM
Google Quantum AI
ID Quantique
KETS Quantum Security
Qontrol
Quandela
Pasqal
Zhongke Guo Guang Quantum Technology

Market Segmentation (by Type)

Silicon Photonic Quantum Chip
Superconducting Quantum Chip

Market Segmentation (by Application)

Defense and Security
Financial Industry
Artificial Intelligence Industry
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Photonic Quantum Chip Market
Overview of the regional outlook of the Photonic Quantum Chip Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Photonic Quantum Chip Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Photonic Quantum Chip, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Photonic Quantum Chip
- 1.2 Key Market Segments
 - 1.2.1 Photonic Quantum Chip Segment by Type
 - 1.2.2 Photonic Quantum Chip Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 PHOTONIC QUANTUM CHIP MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Photonic Quantum Chip Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Photonic Quantum Chip Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 PHOTONIC QUANTUM CHIP MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Photonic Quantum Chip Product Life Cycle
- 3.3 Global Photonic Quantum Chip Sales by Manufacturers (2020-2025)
- 3.4 Global Photonic Quantum Chip Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Photonic Quantum Chip Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Photonic Quantum Chip Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Photonic Quantum Chip Market Competitive Situation and Trends
 - 3.8.1 Photonic Quantum Chip Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Photonic Quantum Chip Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 PHOTONIC QUANTUM CHIP INDUSTRY CHAIN ANALYSIS

- 4.1 Photonic Quantum Chip Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PHOTONIC QUANTUM CHIP MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Photonic Quantum Chip Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Photonic Quantum Chip Market
- 5.7 ESG Ratings of Leading Companies

6 PHOTONIC QUANTUM CHIP MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Photonic Quantum Chip Sales Market Share by Type (2020-2025)
- 6.3 Global Photonic Quantum Chip Market Size by Type (2020-2025)
- 6.4 Global Photonic Quantum Chip Price by Type (2020-2025)

7 PHOTONIC QUANTUM CHIP MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)

- 7.2 Global Photonic Quantum Chip Market Sales by Application (2020-2025)
- 7.3 Global Photonic Quantum Chip Market Size (M USD) by Application (2020-2025)
- 7.4 Global Photonic Quantum Chip Sales Growth Rate by Application (2020-2025)

8 PHOTONIC QUANTUM CHIP MARKET SALES BY REGION

- 8.1 Global Photonic Quantum Chip Sales by Region
 - 8.1.1 Global Photonic Quantum Chip Sales by Region
 - 8.1.2 Global Photonic Quantum Chip Sales Market Share by Region
- 8.2 Global Photonic Quantum Chip Market Size by Region
 - 8.2.1 Global Photonic Quantum Chip Market Size by Region
 - 8.2.2 Global Photonic Quantum Chip Market Size by Region
- 8.3 North America
 - 8.3.1 North America Photonic Quantum Chip Sales by Country
 - 8.3.2 North America Photonic Quantum Chip Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Photonic Quantum Chip Sales by Country
 - 8.4.2 Europe Photonic Quantum Chip Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Photonic Quantum Chip Sales by Region
 - 8.5.2 Asia Pacific Photonic Quantum Chip Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Photonic Quantum Chip Sales by Country
 - 8.6.2 South America Photonic Quantum Chip Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview

- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Photonic Quantum Chip Sales by Region
 - 8.7.2 Middle East and Africa Photonic Quantum Chip Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 PHOTONIC QUANTUM CHIP MARKET PRODUCTION BY REGION

- 9.1 Global Production of Photonic Quantum Chip by Region(2020-2025)
- 9.2 Global Photonic Quantum Chip Revenue Market Share by Region (2020-2025)
- 9.3 Global Photonic Quantum Chip Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Photonic Quantum Chip Production
 - 9.4.1 North America Photonic Quantum Chip Production Growth Rate (2020-2025)
 - 9.4.2 North America Photonic Quantum Chip Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Photonic Quantum Chip Production
 - 9.5.1 Europe Photonic Quantum Chip Production Growth Rate (2020-2025)
 - 9.5.2 Europe Photonic Quantum Chip Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Photonic Quantum Chip Production (2020-2025)
 - 9.6.1 Japan Photonic Quantum Chip Production Growth Rate (2020-2025)
 - 9.6.2 Japan Photonic Quantum Chip Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Photonic Quantum Chip Production (2020-2025)
 - 9.7.1 China Photonic Quantum Chip Production Growth Rate (2020-2025)
 - 9.7.2 China Photonic Quantum Chip Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Xanadu
 - 10.1.1 Xanadu Basic Information
 - 10.1.2 Xanadu Photonic Quantum Chip Product Overview
 - 10.1.3 Xanadu Photonic Quantum Chip Product Market Performance

- 10.1.4 Xanadu Business Overview
- 10.1.5 Xanadu SWOT Analysis
- 10.1.6 Xanadu Recent Developments
- 10.2 PsiQuantum
 - 10.2.1 PsiQuantum Basic Information
 - 10.2.2 PsiQuantum Photonic Quantum Chip Product Overview
 - 10.2.3 PsiQuantum Photonic Quantum Chip Product Market Performance
 - 10.2.4 PsiQuantum Business Overview
 - 10.2.5 PsiQuantum SWOT Analysis
 - 10.2.6 PsiQuantum Recent Developments
- 10.3 QuiX Quantum
 - 10.3.1 QuiX Quantum Basic Information
 - 10.3.2 QuiX Quantum Photonic Quantum Chip Product Overview
 - 10.3.3 QuiX Quantum Photonic Quantum Chip Product Market Performance
 - 10.3.4 QuiX Quantum Business Overview
 - 10.3.5 QuiX Quantum SWOT Analysis
 - 10.3.6 QuiX Quantum Recent Developments
- 10.4 ORCA Computing
 - 10.4.1 ORCA Computing Basic Information
 - 10.4.2 ORCA Computing Photonic Quantum Chip Product Overview
 - 10.4.3 ORCA Computing Photonic Quantum Chip Product Market Performance
 - 10.4.4 ORCA Computing Business Overview
 - 10.4.5 ORCA Computing Recent Developments
- 10.5 Quantum Source
 - 10.5.1 Quantum Source Basic Information
 - 10.5.2 Quantum Source Photonic Quantum Chip Product Overview
 - 10.5.3 Quantum Source Photonic Quantum Chip Product Market Performance
 - 10.5.4 Quantum Source Business Overview
 - 10.5.5 Quantum Source Recent Developments
- 10.6 NTT
 - 10.6.1 NTT Basic Information
 - 10.6.2 NTT Photonic Quantum Chip Product Overview
 - 10.6.3 NTT Photonic Quantum Chip Product Market Performance
 - 10.6.4 NTT Business Overview
 - 10.6.5 NTT Recent Developments
- 10.7 Toshiba
 - 10.7.1 Toshiba Basic Information
 - 10.7.2 Toshiba Photonic Quantum Chip Product Overview
 - 10.7.3 Toshiba Photonic Quantum Chip Product Market Performance

- 10.7.4 Toshiba Business Overview
- 10.7.5 Toshiba Recent Developments
- 10.8 NEC
 - 10.8.1 NEC Basic Information
 - 10.8.2 NEC Photonic Quantum Chip Product Overview
 - 10.8.3 NEC Photonic Quantum Chip Product Market Performance
 - 10.8.4 NEC Business Overview
 - 10.8.5 NEC Recent Developments
- 10.9 Intel
 - 10.9.1 Intel Basic Information
 - 10.9.2 Intel Photonic Quantum Chip Product Overview
 - 10.9.3 Intel Photonic Quantum Chip Product Market Performance
 - 10.9.4 Intel Business Overview
 - 10.9.5 Intel Recent Developments
- 10.10 IBM
 - 10.10.1 IBM Basic Information
 - 10.10.2 IBM Photonic Quantum Chip Product Overview
 - 10.10.3 IBM Photonic Quantum Chip Product Market Performance
 - 10.10.4 IBM Business Overview
 - 10.10.5 IBM Recent Developments
- 10.11 Google Quantum AI
 - 10.11.1 Google Quantum AI Basic Information
 - 10.11.2 Google Quantum AI Photonic Quantum Chip Product Overview
 - 10.11.3 Google Quantum AI Photonic Quantum Chip Product Market Performance
 - 10.11.4 Google Quantum AI Business Overview
 - 10.11.5 Google Quantum AI Recent Developments
- 10.12 ID Quantique
 - 10.12.1 ID Quantique Basic Information
 - 10.12.2 ID Quantique Photonic Quantum Chip Product Overview
 - 10.12.3 ID Quantique Photonic Quantum Chip Product Market Performance
 - 10.12.4 ID Quantique Business Overview
 - 10.12.5 ID Quantique Recent Developments
- 10.13 KETS Quantum Security
 - 10.13.1 KETS Quantum Security Basic Information
 - 10.13.2 KETS Quantum Security Photonic Quantum Chip Product Overview
 - 10.13.3 KETS Quantum Security Photonic Quantum Chip Product Market Performance
 - 10.13.4 KETS Quantum Security Business Overview
 - 10.13.5 KETS Quantum Security Recent Developments

10.14 Qontrol

- 10.14.1 Qontrol Basic Information
- 10.14.2 Qontrol Photonic Quantum Chip Product Overview
- 10.14.3 Qontrol Photonic Quantum Chip Product Market Performance
- 10.14.4 Qontrol Business Overview
- 10.14.5 Qontrol Recent Developments

10.15 Quandela

- 10.15.1 Quandela Basic Information
- 10.15.2 Quandela Photonic Quantum Chip Product Overview
- 10.15.3 Quandela Photonic Quantum Chip Product Market Performance
- 10.15.4 Quandela Business Overview
- 10.15.5 Quandela Recent Developments

10.16 Pasqal

- 10.16.1 Pasqal Basic Information
- 10.16.2 Pasqal Photonic Quantum Chip Product Overview
- 10.16.3 Pasqal Photonic Quantum Chip Product Market Performance
- 10.16.4 Pasqal Business Overview
- 10.16.5 Pasqal Recent Developments

10.17 Zhongke GuoguangQuantum Technology

- 10.17.1 Zhongke GuoguangQuantum Technology Basic Information
- 10.17.2 Zhongke GuoguangQuantum Technology Photonic Quantum Chip Product Overview
- 10.17.3 Zhongke GuoguangQuantum Technology Photonic Quantum Chip Product Market Performance
- 10.17.4 Zhongke GuoguangQuantum Technology Business Overview
- 10.17.5 Zhongke GuoguangQuantum Technology Recent Developments

11 PHOTONIC QUANTUM CHIP MARKET FORECAST BY REGION

11.1 Global Photonic Quantum Chip Market Size Forecast

11.2 Global Photonic Quantum Chip Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe Photonic Quantum Chip Market Size Forecast by Country
- 11.2.3 Asia Pacific Photonic Quantum Chip Market Size Forecast by Region
- 11.2.4 South America Photonic Quantum Chip Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Photonic Quantum Chip by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Photonic Quantum Chip Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Photonic Quantum Chip by Type (2026-2035)
 - 12.1.2 Global Photonic Quantum Chip Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Photonic Quantum Chip by Type (2026-2035)
- 12.2 Global Photonic Quantum Chip Market Forecast by Application (2026-2035)
 - 12.2.1 Global Photonic Quantum Chip Sales (K Units) Forecast by Application
 - 12.2.2 Global Photonic Quantum Chip Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Photonic Quantum Chip Market Size by Type (M USD)

Table 4. Global Photonic Quantum Chip Market Size by Application

Table 5. Photonic Quantum Chip Market Size Comparison by Region (M USD)

Table 6. Global Photonic Quantum Chip Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Photonic Quantum Chip Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Photonic Quantum Chip Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Photonic Quantum Chip Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Photonic Quantum Chip as of 2025)

Table 11. Global Market Photonic Quantum Chip Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Photonic Quantum Chip Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Photonic Quantum Chip Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Photonic Quantum Chip Sales by Type (K Units)

Table 27. Global Photonic Quantum Chip Market Size by Type (M USD)

Table 28. Global Photonic Quantum Chip Sales (K Units) by Type (2020-2025)

Table 29. Global Photonic Quantum Chip Sales Market Share by Type (2020-2025)

- Table 30. Global Photonic Quantum Chip Market Size (M USD) by Type (2020-2025)
- Table 31. Global Photonic Quantum Chip Market Share by Type (2020-2025)
- Table 32. Global Photonic Quantum Chip Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Photonic Quantum Chip Sales (K Units) by Application
- Table 34. Global Photonic Quantum Chip Market Size by Application
- Table 35. Global Photonic Quantum Chip Sales by Application (2020-2025) & (K Units)
- Table 36. Global Photonic Quantum Chip Sales Market Share by Application (2020-2025)
- Table 37. Global Photonic Quantum Chip Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Photonic Quantum Chip Market Share by Application (2020-2025)
- Table 39. Global Photonic Quantum Chip Sales Growth Rate by Application (2020-2025)
- Table 40. Global Photonic Quantum Chip Sales by Region (2020-2025) & (K Units)
- Table 41. Global Photonic Quantum Chip Sales Market Share by Region (2020-2025)
- Table 42. Global Photonic Quantum Chip Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Photonic Quantum Chip Market Size by Region (2020-2025)
- Table 44. North America Photonic Quantum Chip Sales by Country (2020-2025) & (K Units)
- Table 45. North America Photonic Quantum Chip Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Photonic Quantum Chip Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Photonic Quantum Chip Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Photonic Quantum Chip Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Photonic Quantum Chip Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Photonic Quantum Chip Sales by Country (2020-2025) & (K Units)
- Table 51. South America Photonic Quantum Chip Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Photonic Quantum Chip Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Photonic Quantum Chip Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Photonic Quantum Chip Production (K Units) by Region(2020-2025)
- Table 55. Global Photonic Quantum Chip Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Photonic Quantum Chip Revenue Market Share by Region (2020-2025)

Table 57. Global Photonic Quantum Chip Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Photonic Quantum Chip Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Photonic Quantum Chip Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Photonic Quantum Chip Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Photonic Quantum Chip Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Xanadu Basic Information

Table 63. Xanadu Photonic Quantum Chip Product Overview

Table 64. Xanadu Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Xanadu Business Overview

Table 66. Xanadu SWOT Analysis

Table 67. Xanadu Recent Developments

Table 68. PsiQuantum Basic Information

Table 69. PsiQuantum Photonic Quantum Chip Product Overview

Table 70. PsiQuantum Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. PsiQuantum Business Overview

Table 72. PsiQuantum SWOT Analysis

Table 73. PsiQuantum Recent Developments

Table 74. QuiX Quantum Basic Information

Table 75. QuiX Quantum Photonic Quantum Chip Product Overview

Table 76. QuiX Quantum Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. QuiX Quantum Business Overview

Table 78. QuiX Quantum SWOT Analysis

Table 79. QuiX Quantum Recent Developments

Table 80. ORCA Computing Basic Information

Table 81. ORCA Computing Photonic Quantum Chip Product Overview

Table 82. ORCA Computing Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. ORCA Computing Business Overview

Table 84. ORCA Computing Recent Developments

- Table 85. Quantum Source Basic Information
- Table 86. Quantum Source Photonic Quantum Chip Product Overview
- Table 87. Quantum Source Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Quantum Source Business Overview
- Table 89. Quantum Source Recent Developments
- Table 90. NTT Basic Information
- Table 91. NTT Photonic Quantum Chip Product Overview
- Table 92. NTT Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. NTT Business Overview
- Table 94. NTT Recent Developments
- Table 95. Toshiba Basic Information
- Table 96. Toshiba Photonic Quantum Chip Product Overview
- Table 97. Toshiba Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Toshiba Business Overview
- Table 99. Toshiba Recent Developments
- Table 100. NEC Basic Information
- Table 101. NEC Photonic Quantum Chip Product Overview
- Table 102. NEC Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. NEC Business Overview
- Table 104. NEC Recent Developments
- Table 105. Intel Basic Information
- Table 106. Intel Photonic Quantum Chip Product Overview
- Table 107. Intel Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Intel Business Overview
- Table 109. Intel Recent Developments
- Table 110. IBM Basic Information
- Table 111. IBM Photonic Quantum Chip Product Overview
- Table 112. IBM Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. IBM Business Overview
- Table 114. IBM Recent Developments
- Table 115. Google Quantum AI Basic Information
- Table 116. Google Quantum AI Photonic Quantum Chip Product Overview
- Table 117. Google Quantum AI Photonic Quantum Chip Sales (K Units), Revenue (M

USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Google Quantum AI Business Overview

Table 119. Google Quantum AI Recent Developments

Table 120. ID Quantique Basic Information

Table 121. ID Quantique Photonic Quantum Chip Product Overview

Table 122. ID Quantique Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. ID Quantique Business Overview

Table 124. ID Quantique Recent Developments

Table 125. KETS Quantum Security Basic Information

Table 126. KETS Quantum Security Photonic Quantum Chip Product Overview

Table 127. KETS Quantum Security Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 128. KETS Quantum Security Business Overview

Table 129. KETS Quantum Security Recent Developments

Table 130. Qontrol Basic Information

Table 131. Qontrol Photonic Quantum Chip Product Overview

Table 132. Qontrol Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 133. Qontrol Business Overview

Table 134. Qontrol Recent Developments

Table 135. Quandela Basic Information

Table 136. Quandela Photonic Quantum Chip Product Overview

Table 137. Quandela Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 138. Quandela Business Overview

Table 139. Quandela Recent Developments

Table 140. Pasqal Basic Information

Table 141. Pasqal Photonic Quantum Chip Product Overview

Table 142. Pasqal Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. Pasqal Business Overview

Table 144. Pasqal Recent Developments

Table 145. Zhongke GuoguangQuantum Technology Basic Information

Table 146. Zhongke GuoguangQuantum Technology Photonic Quantum Chip Product Overview

Table 147. Zhongke GuoguangQuantum Technology Photonic Quantum Chip Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 148. Zhongke GuoguangQuantum Technology Business Overview

- Table 149. Zhongke Guoguang Quantum Technology Recent Developments
- Table 150. Global Photonic Quantum Chip Sales Forecast by Region (2026-2035) & (K Units)
- Table 151. Global Photonic Quantum Chip Market Size Forecast by Region (2026-2035) & (M USD)
- Table 152. North America Photonic Quantum Chip Sales Forecast by Country (2026-2035) & (K Units)
- Table 153. North America Photonic Quantum Chip Market Size Forecast by Country (2026-2035) & (M USD)
- Table 154. Europe Photonic Quantum Chip Sales Forecast by Country (2026-2035) & (K Units)
- Table 155. Europe Photonic Quantum Chip Market Size Forecast by Country (2026-2035) & (M USD)
- Table 156. Asia Pacific Photonic Quantum Chip Sales Forecast by Region (2026-2035) & (K Units)
- Table 157. Asia Pacific Photonic Quantum Chip Market Size Forecast by Region (2026-2035) & (M USD)
- Table 158. South America Photonic Quantum Chip Sales Forecast by Country (2026-2035) & (K Units)
- Table 159. South America Photonic Quantum Chip Market Size Forecast by Country (2026-2035) & (M USD)
- Table 160. Middle East and Africa Photonic Quantum Chip Sales Forecast by Country (2026-2035) & (Units)
- Table 161. Middle East and Africa Photonic Quantum Chip Market Size Forecast by Country (2026-2035) & (M USD)
- Table 162. Global Photonic Quantum Chip Sales Forecast by Type (2026-2035) & (K Units)
- Table 163. Global Photonic Quantum Chip Market Size Forecast by Type (2026-2035) & (M USD)
- Table 164. Global Photonic Quantum Chip Price Forecast by Type (2026-2035) & (USD/Unit)
- Table 165. Global Photonic Quantum Chip Sales (K Units) Forecast by Application (2026-2035)
- Table 166. Global Photonic Quantum Chip Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Photonic Quantum Chip
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Photonic Quantum Chip Market Size (M USD), 2025-2035
- Figure 5. Global Photonic Quantum Chip Market Size (M USD) (2020-2035)
- Figure 6. Global Photonic Quantum Chip Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Photonic Quantum Chip Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Photonic Quantum Chip Product Life Cycle
- Figure 13. Photonic Quantum Chip Sales Share by Manufacturers in 2025
- Figure 14. Global Photonic Quantum Chip Revenue Share by Manufacturers in 2025
- Figure 15. Photonic Quantum Chip Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Photonic Quantum Chip Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Photonic Quantum Chip Revenue in 2025
- Figure 18. Industry Chain Map of Photonic Quantum Chip
- Figure 19. Global Photonic Quantum Chip Market PEST Analysis
- Figure 20. Global Photonic Quantum Chip Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Photonic Quantum Chip Market Share by Type
- Figure 27. Sales Market Share of Photonic Quantum Chip by Type (2020-2025)
- Figure 28. Sales Market Share of Photonic Quantum Chip by Type in 2025
- Figure 29. Market Share of Photonic Quantum Chip by Type (2020-2025)
- Figure 30. Market Share of Photonic Quantum Chip by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Photonic Quantum Chip Market Share by Application

Figure 33. Global Photonic Quantum Chip Sales Market Share by Application (2020-2025)

Figure 34. Global Photonic Quantum Chip Sales Market Share by Application in 2025

Figure 35. Global Photonic Quantum Chip Market Share by Application (2020-2025)

Figure 36. Global Photonic Quantum Chip Market Share by Application in 2025

Figure 37. Global Photonic Quantum Chip Sales Growth Rate by Application (2020-2025)

Figure 38. Global Photonic Quantum Chip Sales Market Share by Region (2020-2025)

Figure 39. Global Photonic Quantum Chip Market Size by Region (2020-2025)

Figure 40. North America Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Photonic Quantum Chip Sales Market Share by Country in 2024

Figure 43. North America Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Photonic Quantum Chip Market Size by Country in 2024

Figure 45. U.S. Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Photonic Quantum Chip Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Photonic Quantum Chip Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Photonic Quantum Chip Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Photonic Quantum Chip Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Photonic Quantum Chip Sales Market Share by Country in 2024

Figure 53. Europe Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Photonic Quantum Chip Market Size by Country in 2024

Figure 55. Germany Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Photonic Quantum Chip Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Photonic Quantum Chip Sales Market Share by Region in 2024

Figure 67. Asia Pacific Photonic Quantum Chip Market Size by Region in 2024

Figure 68. China Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Photonic Quantum Chip Sales and Growth Rate (K Units)

Figure 79. South America Photonic Quantum Chip Sales Market Share by Country in 2024

Figure 80. South America Photonic Quantum Chip Market Size and Growth Rate (M USD)

Figure 81. South America Photonic Quantum Chip Market Size by Country in 2024

Figure 82. Brazil Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Photonic Quantum Chip Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Photonic Quantum Chip Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Photonic Quantum Chip Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Photonic Quantum Chip Market Size by Region in 2024

Figure 92. Saudi Arabia Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Photonic Quantum Chip Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Photonic Quantum Chip Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Photonic Quantum Chip Production Market Share by Region (2020-2025)

Figure 103. North America Photonic Quantum Chip Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Photonic Quantum Chip Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Photonic Quantum Chip Production (K Units) Growth Rate (2020-2025)

Figure 106. China Photonic Quantum Chip Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Photonic Quantum Chip Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Photonic Quantum Chip Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Photonic Quantum Chip Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Photonic Quantum Chip Market Share Forecast by Type (2026-2035)

Figure 111. Global Photonic Quantum Chip Sales Forecast by Application (2026-2035)

Figure 112. Global Photonic Quantum Chip Market Share Forecast by Application (2026-2035)

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