

Global Postquantum Cryptography Chip Market Growth 2026-2032

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Abstracts

The global Postquantum Cryptography Chip market size is predicted to grow from US\$ 137 million in 2025 to US\$ 512 million in 2032; it is expected to grow at a CAGR of 20.9% from 2026 to 2032.

In 2025, global Postquantum Cryptography Chip production reached approximately 13.3 k units with an average global market price of around US\$10,500 per unit. Single-line annual production capacity averages 500 units with a gross margin of approximately 25%. The upstream of the Postquantum Cryptography Chip industry primarily includes semiconductor materials, integrated circuit design, manufacturing, and packaging and testing sectors. In downstream applications, healthcare, finance, national defense and military, and critical infrastructure sectors account for 20%, 30%, 20%, and 15% of consumption, respectively, with other sectors accounting for 15%. The current market demand for Postquantum Cryptography Chips is experiencing steady growth, with business opportunities primarily arising from the research and development of new technologies, the formulation of security standards, and the exploration of emerging markets.

A Postquantum Cryptography Chip is a specialized hardware component that incorporates cryptographic algorithms designed to be secure against attacks by quantum computers. These algorithms are based on mathematical problems that are believed to be intractable for quantum computers, ensuring that encrypted data remains secure even as quantum computing technology advances. The chip is engineered to provide a high level of security for sensitive information, with the capability to perform cryptographic operations efficiently and at a low power consumption rate. Its integration into various devices and systems ensures the longevity and robustness of cryptographic security measures against the evolving landscape of quantum threats.

United States market for Postquantum Cryptography Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Postquantum Cryptography Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Postquantum Cryptography Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Postquantum Cryptography Chip players cover Samsung, SEALSQ, Jmem Tek, NXP, ResQuant, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Postquantum Cryptography Chip Industry Forecast" looks at past sales and reviews total world Postquantum Cryptography Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Postquantum Cryptography Chip sales for 2026 through 2032. With Postquantum Cryptography Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Postquantum Cryptography Chip industry.

This Insight Report provides a comprehensive analysis of the global Postquantum Cryptography Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Postquantum Cryptography Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Postquantum Cryptography Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Postquantum Cryptography Chip and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Postquantum Cryptography Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Postquantum Cryptography Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

MCU

SoC

Segmentation by Quantum Resistant Properties:

PQC Chip

Others

Segmentation by Application:

Healthcare

Finance

Military Affairs

Critical Infrastructure

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Samsung

SEALSQ

Jmem Tek

NXP

ResQuant

Suzhou C*Core Technology

Beijing Sansec Technology

Zhengzhou Xinda Yimi Technology

Shanghai Turing Intelligent Computing Quantum Technology

Wuxi MUCSE

Wuhan Yixin Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Postquantum Cryptography Chip market?

What factors are driving Postquantum Cryptography Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Postquantum Cryptography Chip market opportunities vary by end market size?

How does Postquantum Cryptography Chip break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Postquantum Cryptography Chip Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Postquantum Cryptography Chip by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Postquantum Cryptography Chip by Country/Region, 2021, 2025 & 2032

2.2 Postquantum Cryptography Chip Segment by Type

- 2.2.1 MCU
- 2.2.2 SoC
- 2.2.3 Postquantum Cryptography Chip Sales by Type
 - 2.2.3.1 Global Postquantum Cryptography Chip Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Postquantum Cryptography Chip Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Postquantum Cryptography Chip Sale Price by Type (2021-2026)

2.3 Postquantum Cryptography Chip Segment by Quantum Resistant Properties

- 2.3.1 PQC Chip
- 2.3.2 Others
- 2.3.3 Postquantum Cryptography Chip Sales by Quantum Resistant Properties
 - 2.3.3.1 Global Postquantum Cryptography Chip Sales Market Share by Quantum Resistant Properties (2021-2026)
 - 2.3.3.2 Global Postquantum Cryptography Chip Revenue and Market Share by Quantum Resistant Properties (2021-2026)
 - 2.3.3.3 Global Postquantum Cryptography Chip Sale Price by Quantum Resistant

Properties (2021-2026)

2.4 Postquantum Cryptography Chip Segment by Application

2.4.1 Healthcare

2.4.2 Finance

2.4.3 Military Affairs

2.4.4 Critical Infrastructure

2.4.5 Others

2.4.6 Postquantum Cryptography Chip Sales by Application

2.4.6.1 Global Postquantum Cryptography Chip Sale Market Share by Application (2021-2026)

2.4.6.2 Global Postquantum Cryptography Chip Revenue and Market Share by Application (2021-2026)

2.4.6.3 Global Postquantum Cryptography Chip Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Postquantum Cryptography Chip Breakdown Data by Company

3.1.1 Global Postquantum Cryptography Chip Annual Sales by Company (2021-2026)

3.1.2 Global Postquantum Cryptography Chip Sales Market Share by Company (2021-2026)

3.2 Global Postquantum Cryptography Chip Annual Revenue by Company (2021-2026)

3.2.1 Global Postquantum Cryptography Chip Revenue by Company (2021-2026)

3.2.2 Global Postquantum Cryptography Chip Revenue Market Share by Company (2021-2026)

3.3 Global Postquantum Cryptography Chip Sale Price by Company

3.4 Key Manufacturers Postquantum Cryptography Chip Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Postquantum Cryptography Chip Product Location Distribution

3.4.2 Players Postquantum Cryptography Chip Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR POSTQUANTUM CRYPTOGRAPHY CHIP BY GEOGRAPHIC REGION

4.1 World Historic Postquantum Cryptography Chip Market Size by Geographic Region (2021-2026)

4.1.1 Global Postquantum Cryptography Chip Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Postquantum Cryptography Chip Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Postquantum Cryptography Chip Market Size by Country/Region (2021-2026)

4.2.1 Global Postquantum Cryptography Chip Annual Sales by Country/Region (2021-2026)

4.2.2 Global Postquantum Cryptography Chip Annual Revenue by Country/Region (2021-2026)

4.3 Americas Postquantum Cryptography Chip Sales Growth

4.4 APAC Postquantum Cryptography Chip Sales Growth

4.5 Europe Postquantum Cryptography Chip Sales Growth

4.6 Middle East & Africa Postquantum Cryptography Chip Sales Growth

5 AMERICAS

5.1 Americas Postquantum Cryptography Chip Sales by Country

5.1.1 Americas Postquantum Cryptography Chip Sales by Country (2021-2026)

5.1.2 Americas Postquantum Cryptography Chip Revenue by Country (2021-2026)

5.2 Americas Postquantum Cryptography Chip Sales by Type (2021-2026)

5.3 Americas Postquantum Cryptography Chip Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Postquantum Cryptography Chip Sales by Region

6.1.1 APAC Postquantum Cryptography Chip Sales by Region (2021-2026)

6.1.2 APAC Postquantum Cryptography Chip Revenue by Region (2021-2026)

6.2 APAC Postquantum Cryptography Chip Sales by Type (2021-2026)

6.3 APAC Postquantum Cryptography Chip Sales by Application (2021-2026)

6.4 China

6.5 Japan

- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Postquantum Cryptography Chip by Country
 - 7.1.1 Europe Postquantum Cryptography Chip Sales by Country (2021-2026)
 - 7.1.2 Europe Postquantum Cryptography Chip Revenue by Country (2021-2026)
- 7.2 Europe Postquantum Cryptography Chip Sales by Type (2021-2026)
- 7.3 Europe Postquantum Cryptography Chip Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Postquantum Cryptography Chip by Country
 - 8.1.1 Middle East & Africa Postquantum Cryptography Chip Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Postquantum Cryptography Chip Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Postquantum Cryptography Chip Sales by Type (2021-2026)
- 8.3 Middle East & Africa Postquantum Cryptography Chip Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Postquantum Cryptography Chip

10.3 Manufacturing Process Analysis of Postquantum Cryptography Chip

10.4 Industry Chain Structure of Postquantum Cryptography Chip

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Postquantum Cryptography Chip Distributors

11.3 Postquantum Cryptography Chip Customer

12 WORLD FORECAST REVIEW FOR POSTQUANTUM CRYPTOGRAPHY CHIP BY GEOGRAPHIC REGION

12.1 Global Postquantum Cryptography Chip Market Size Forecast by Region

12.1.1 Global Postquantum Cryptography Chip Forecast by Region (2027-2032)

12.1.2 Global Postquantum Cryptography Chip Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Postquantum Cryptography Chip Forecast by Type (2027-2032)

12.7 Global Postquantum Cryptography Chip Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Samsung

13.1.1 Samsung Company Information

13.1.2 Samsung Postquantum Cryptography Chip Product Portfolios and Specifications

13.1.3 Samsung Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.1.4 Samsung Main Business Overview
- 13.1.5 Samsung Latest Developments
- 13.2 SEALSQ
 - 13.2.1 SEALSQ Company Information
 - 13.2.2 SEALSQ Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.2.3 SEALSQ Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 SEALSQ Main Business Overview
 - 13.2.5 SEALSQ Latest Developments
- 13.3 Jmem Tek
 - 13.3.1 Jmem Tek Company Information
 - 13.3.2 Jmem Tek Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.3.3 Jmem Tek Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Jmem Tek Main Business Overview
 - 13.3.5 Jmem Tek Latest Developments
- 13.4 NXP
 - 13.4.1 NXP Company Information
 - 13.4.2 NXP Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.4.3 NXP Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 NXP Main Business Overview
 - 13.4.5 NXP Latest Developments
- 13.5 ResQuant
 - 13.5.1 ResQuant Company Information
 - 13.5.2 ResQuant Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.5.3 ResQuant Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 ResQuant Main Business Overview
 - 13.5.5 ResQuant Latest Developments
- 13.6 Suzhou C*Core Technology
 - 13.6.1 Suzhou C*Core Technology Company Information
 - 13.6.2 Suzhou C*Core Technology Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.6.3 Suzhou C*Core Technology Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Suzhou C*Core Technology Main Business Overview

- 13.6.5 Suzhou C*Core Technology Latest Developments
- 13.7 Beijing Sansec Technology
 - 13.7.1 Beijing Sansec Technology Company Information
 - 13.7.2 Beijing Sansec Technology Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.7.3 Beijing Sansec Technology Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Beijing Sansec Technology Main Business Overview
 - 13.7.5 Beijing Sansec Technology Latest Developments
- 13.8 Zhengzhou Xinda Yimi Technology
 - 13.8.1 Zhengzhou Xinda Yimi Technology Company Information
 - 13.8.2 Zhengzhou Xinda Yimi Technology Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.8.3 Zhengzhou Xinda Yimi Technology Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Zhengzhou Xinda Yimi Technology Main Business Overview
 - 13.8.5 Zhengzhou Xinda Yimi Technology Latest Developments
- 13.9 Shanghai Turing Intelligent Computing Quantum Technology
 - 13.9.1 Shanghai Turing Intelligent Computing Quantum Technology Company Information
 - 13.9.2 Shanghai Turing Intelligent Computing Quantum Technology Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.9.3 Shanghai Turing Intelligent Computing Quantum Technology Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Shanghai Turing Intelligent Computing Quantum Technology Main Business Overview
 - 13.9.5 Shanghai Turing Intelligent Computing Quantum Technology Latest Developments
- 13.10 Wuxi MUCSE
 - 13.10.1 Wuxi MUCSE Company Information
 - 13.10.2 Wuxi MUCSE Postquantum Cryptography Chip Product Portfolios and Specifications
 - 13.10.3 Wuxi MUCSE Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Wuxi MUCSE Main Business Overview
 - 13.10.5 Wuxi MUCSE Latest Developments
- 13.11 Wuhan Yixin Microelectronics
 - 13.11.1 Wuhan Yixin Microelectronics Company Information
 - 13.11.2 Wuhan Yixin Microelectronics Postquantum Cryptography Chip Product

Portfolios and Specifications

13.11.3 Wuhan Yixin Microelectronics Postquantum Cryptography Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Wuhan Yixin Microelectronics Main Business Overview

13.11.5 Wuhan Yixin Microelectronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Postquantum Cryptography Chip Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Postquantum Cryptography Chip Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of MCU

Table 4. Major Players of SoC

Table 5. Global Postquantum Cryptography Chip Sales by Type (2021-2026) & (Units)

Table 6. Global Postquantum Cryptography Chip Sales Market Share by Type (2021-2026)

Table 7. Global Postquantum Cryptography Chip Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Postquantum Cryptography Chip Revenue Market Share by Type (2021-2026)

Table 9. Global Postquantum Cryptography Chip Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of PQC Chip

Table 11. Major Players of Others

Table 12. Global Postquantum Cryptography Chip Sales by Quantum Resistant Properties (2021-2026) & (Units)

Table 13. Global Postquantum Cryptography Chip Sales Market Share by Quantum Resistant Properties (2021-2026)

Table 14. Global Postquantum Cryptography Chip Revenue by Quantum Resistant Properties (2021-2026) & (\$ million)

Table 15. Global Postquantum Cryptography Chip Revenue Market Share by Quantum Resistant Properties (2021-2026)

Table 16. Global Postquantum Cryptography Chip Sale Price by Quantum Resistant Properties (2021-2026) & (US\$/Unit)

Table 17. Global Postquantum Cryptography Chip Sale by Application (2021-2026) & (Units)

Table 18. Global Postquantum Cryptography Chip Sale Market Share by Application (2021-2026)

Table 19. Global Postquantum Cryptography Chip Revenue by Application (2021-2026) & (\$ million)

Table 20. Global Postquantum Cryptography Chip Revenue Market Share by Application (2021-2026)

- Table 21. Global Postquantum Cryptography Chip Sale Price by Application (2021-2026) & (US\$/Unit)
- Table 22. Global Postquantum Cryptography Chip Sales by Company (2021-2026) & (Units)
- Table 23. Global Postquantum Cryptography Chip Sales Market Share by Company (2021-2026)
- Table 24. Global Postquantum Cryptography Chip Revenue by Company (2021-2026) & (\$ millions)
- Table 25. Global Postquantum Cryptography Chip Revenue Market Share by Company (2021-2026)
- Table 26. Global Postquantum Cryptography Chip Sale Price by Company (2021-2026) & (US\$/Unit)
- Table 27. Key Manufacturers Postquantum Cryptography Chip Producing Area Distribution and Sales Area
- Table 28. Players Postquantum Cryptography Chip Products Offered
- Table 29. Postquantum Cryptography Chip Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 30. New Products and Potential Entrants
- Table 31. Market M&A Activity & Strategy
- Table 32. Global Postquantum Cryptography Chip Sales by Geographic Region (2021-2026) & (Units)
- Table 33. Global Postquantum Cryptography Chip Sales Market Share Geographic Region (2021-2026)
- Table 34. Global Postquantum Cryptography Chip Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 35. Global Postquantum Cryptography Chip Revenue Market Share by Geographic Region (2021-2026)
- Table 36. Global Postquantum Cryptography Chip Sales by Country/Region (2021-2026) & (Units)
- Table 37. Global Postquantum Cryptography Chip Sales Market Share by Country/Region (2021-2026)
- Table 38. Global Postquantum Cryptography Chip Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 39. Global Postquantum Cryptography Chip Revenue Market Share by Country/Region (2021-2026)
- Table 40. Americas Postquantum Cryptography Chip Sales by Country (2021-2026) & (Units)
- Table 41. Americas Postquantum Cryptography Chip Sales Market Share by Country (2021-2026)

- Table 42. Americas Postquantum Cryptography Chip Revenue by Country (2021-2026) & (\$ millions)
- Table 43. Americas Postquantum Cryptography Chip Sales by Type (2021-2026) & (Units)
- Table 44. Americas Postquantum Cryptography Chip Sales by Application (2021-2026) & (Units)
- Table 45. APAC Postquantum Cryptography Chip Sales by Region (2021-2026) & (Units)
- Table 46. APAC Postquantum Cryptography Chip Sales Market Share by Region (2021-2026)
- Table 47. APAC Postquantum Cryptography Chip Revenue by Region (2021-2026) & (\$ millions)
- Table 48. APAC Postquantum Cryptography Chip Sales by Type (2021-2026) & (Units)
- Table 49. APAC Postquantum Cryptography Chip Sales by Application (2021-2026) & (Units)
- Table 50. Europe Postquantum Cryptography Chip Sales by Country (2021-2026) & (Units)
- Table 51. Europe Postquantum Cryptography Chip Revenue by Country (2021-2026) & (\$ millions)
- Table 52. Europe Postquantum Cryptography Chip Sales by Type (2021-2026) & (Units)
- Table 53. Europe Postquantum Cryptography Chip Sales by Application (2021-2026) & (Units)
- Table 54. Middle East & Africa Postquantum Cryptography Chip Sales by Country (2021-2026) & (Units)
- Table 55. Middle East & Africa Postquantum Cryptography Chip Revenue Market Share by Country (2021-2026)
- Table 56. Middle East & Africa Postquantum Cryptography Chip Sales by Type (2021-2026) & (Units)
- Table 57. Middle East & Africa Postquantum Cryptography Chip Sales by Application (2021-2026) & (Units)
- Table 58. Key Market Drivers & Growth Opportunities of Postquantum Cryptography Chip
- Table 59. Key Market Challenges & Risks of Postquantum Cryptography Chip
- Table 60. Key Industry Trends of Postquantum Cryptography Chip
- Table 61. Postquantum Cryptography Chip Raw Material
- Table 62. Key Suppliers of Raw Materials
- Table 63. Postquantum Cryptography Chip Distributors List
- Table 64. Postquantum Cryptography Chip Customer List
- Table 65. Global Postquantum Cryptography Chip Sales Forecast by Region

(2027-2032) & (Units)

Table 66. Global Postquantum Cryptography Chip Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 67. Americas Postquantum Cryptography Chip Sales Forecast by Country (2027-2032) & (Units)

Table 68. Americas Postquantum Cryptography Chip Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. APAC Postquantum Cryptography Chip Sales Forecast by Region (2027-2032) & (Units)

Table 70. APAC Postquantum Cryptography Chip Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 71. Europe Postquantum Cryptography Chip Sales Forecast by Country (2027-2032) & (Units)

Table 72. Europe Postquantum Cryptography Chip Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 73. Middle East & Africa Postquantum Cryptography Chip Sales Forecast by Country (2027-2032) & (Units)

Table 74. Middle East & Africa Postquantum Cryptography Chip Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 75. Global Postquantum Cryptography Chip Sales Forecast by Type (2027-2032) & (Units)

Table 76. Global Postquantum Cryptography Chip Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 77. Global Postquantum Cryptography Chip Sales Forecast by Application (2027-2032) & (Units)

Table 78. Global Postquantum Cryptography Chip Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 79. Samsung Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 80. Samsung Postquantum Cryptography Chip Product Portfolios and Specifications

Table 81. Samsung Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 82. Samsung Main Business

Table 83. Samsung Latest Developments

Table 84. SEALSQ Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 85. SEALSQ Postquantum Cryptography Chip Product Portfolios and Specifications

Table 86. SEALSQ Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 87. SEALSQ Main Business

Table 88. SEALSQ Latest Developments

Table 89. Jmem Tek Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 90. Jmem Tek Postquantum Cryptography Chip Product Portfolios and Specifications

Table 91. Jmem Tek Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Jmem Tek Main Business

Table 93. Jmem Tek Latest Developments

Table 94. NXP Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 95. NXP Postquantum Cryptography Chip Product Portfolios and Specifications

Table 96. NXP Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. NXP Main Business

Table 98. NXP Latest Developments

Table 99. ResQuant Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 100. ResQuant Postquantum Cryptography Chip Product Portfolios and Specifications

Table 101. ResQuant Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. ResQuant Main Business

Table 103. ResQuant Latest Developments

Table 104. Suzhou C*Core Technology Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 105. Suzhou C*Core Technology Postquantum Cryptography Chip Product Portfolios and Specifications

Table 106. Suzhou C*Core Technology Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Suzhou C*Core Technology Main Business

Table 108. Suzhou C*Core Technology Latest Developments

Table 109. Beijing Sansec Technology Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 110. Beijing Sansec Technology Postquantum Cryptography Chip Product Portfolios and Specifications

Table 111. Beijing Sansec Technology Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Beijing Sansec Technology Main Business

Table 113. Beijing Sansec Technology Latest Developments

Table 114. Zhengzhou Xinda Yimi Technology Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 115. Zhengzhou Xinda Yimi Technology Postquantum Cryptography Chip Product Portfolios and Specifications

Table 116. Zhengzhou Xinda Yimi Technology Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Zhengzhou Xinda Yimi Technology Main Business

Table 118. Zhengzhou Xinda Yimi Technology Latest Developments

Table 119. Shanghai Turing Intelligent Computing Quantum Technology Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 120. Shanghai Turing Intelligent Computing Quantum Technology Postquantum Cryptography Chip Product Portfolios and Specifications

Table 121. Shanghai Turing Intelligent Computing Quantum Technology Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Shanghai Turing Intelligent Computing Quantum Technology Main Business

Table 123. Shanghai Turing Intelligent Computing Quantum Technology Latest Developments

Table 124. Wuxi MUCSE Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 125. Wuxi MUCSE Postquantum Cryptography Chip Product Portfolios and Specifications

Table 126. Wuxi MUCSE Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Wuxi MUCSE Main Business

Table 128. Wuxi MUCSE Latest Developments

Table 129. Wuhan Yixin Microelectronics Basic Information, Postquantum Cryptography Chip Manufacturing Base, Sales Area and Its Competitors

Table 130. Wuhan Yixin Microelectronics Postquantum Cryptography Chip Product Portfolios and Specifications

Table 131. Wuhan Yixin Microelectronics Postquantum Cryptography Chip Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Wuhan Yixin Microelectronics Main Business

Table 133. Wuhan Yixin Microelectronics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Postquantum Cryptography Chip
- Figure 2. Postquantum Cryptography Chip Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Postquantum Cryptography Chip Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Postquantum Cryptography Chip Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Postquantum Cryptography Chip Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Postquantum Cryptography Chip Sales Market Share by Country/Region (2025)
- Figure 10. Postquantum Cryptography Chip Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of MCU
- Figure 12. Product Picture of SoC
- Figure 13. Global Postquantum Cryptography Chip Sales Market Share by Type in 2026
- Figure 14. Global Postquantum Cryptography Chip Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of PQC Chip
- Figure 16. Product Picture of Others
- Figure 17. Global Postquantum Cryptography Chip Sales Market Share by Quantum Resistant Properties in 2026
- Figure 18. Global Postquantum Cryptography Chip Revenue Market Share by Quantum Resistant Properties (2021-2026)
- Figure 19. Postquantum Cryptography Chip Consumed in Healthcare
- Figure 20. Global Postquantum Cryptography Chip Market: Healthcare (2021-2026) & (Units)
- Figure 21. Postquantum Cryptography Chip Consumed in Finance
- Figure 22. Global Postquantum Cryptography Chip Market: Finance (2021-2026) & (Units)
- Figure 23. Postquantum Cryptography Chip Consumed in Military Affairs
- Figure 24. Global Postquantum Cryptography Chip Market: Military Affairs (2021-2026) & (Units)
- Figure 25. Postquantum Cryptography Chip Consumed in Critical Infrastructure

Figure 26. Global Postquantum Cryptography Chip Market: Critical Infrastructure (2021-2026) & (Units)

Figure 27. Postquantum Cryptography Chip Consumed in Others

Figure 28. Global Postquantum Cryptography Chip Market: Others (2021-2026) & (Units)

Figure 29. Global Postquantum Cryptography Chip Sale Market Share by Application (2025)

Figure 30. Global Postquantum Cryptography Chip Revenue Market Share by Application in 2026

Figure 31. Postquantum Cryptography Chip Sales by Company in 2026 (Units)

Figure 32. Global Postquantum Cryptography Chip Sales Market Share by Company in 2026

Figure 33. Postquantum Cryptography Chip Revenue by Company in 2026 (\$ millions)

Figure 34. Global Postquantum Cryptography Chip Revenue Market Share by Company in 2026

Figure 35. Global Postquantum Cryptography Chip Sales Market Share by Geographic Region (2021-2026)

Figure 36. Global Postquantum Cryptography Chip Revenue Market Share by Geographic Region in 2026

Figure 37. Americas Postquantum Cryptography Chip Sales 2021-2026 (Units)

Figure 38. Americas Postquantum Cryptography Chip Revenue 2021-2026 (\$ millions)

Figure 39. APAC Postquantum Cryptography Chip Sales 2021-2026 (Units)

Figure 40. APAC Postquantum Cryptography Chip Revenue 2021-2026 (\$ millions)

Figure 41. Europe Postquantum Cryptography Chip Sales 2021-2026 (Units)

Figure 42. Europe Postquantum Cryptography Chip Revenue 2021-2026 (\$ millions)

Figure 43. Middle East & Africa Postquantum Cryptography Chip Sales 2021-2026 (Units)

Figure 44. Middle East & Africa Postquantum Cryptography Chip Revenue 2021-2026 (\$ millions)

Figure 45. Americas Postquantum Cryptography Chip Sales Market Share by Country in 2026

Figure 46. Americas Postquantum Cryptography Chip Revenue Market Share by Country (2021-2026)

Figure 47. Americas Postquantum Cryptography Chip Sales Market Share by Type (2021-2026)

Figure 48. Americas Postquantum Cryptography Chip Sales Market Share by Application (2021-2026)

Figure 49. United States Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 50. Canada Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 51. Mexico Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 52. Brazil Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 53. APAC Postquantum Cryptography Chip Sales Market Share by Region in 2026

Figure 54. APAC Postquantum Cryptography Chip Revenue Market Share by Region (2021-2026)

Figure 55. APAC Postquantum Cryptography Chip Sales Market Share by Type (2021-2026)

Figure 56. APAC Postquantum Cryptography Chip Sales Market Share by Application (2021-2026)

Figure 57. China Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 58. Japan Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 59. South Korea Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 60. Southeast Asia Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 61. India Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 62. Australia Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 63. China Taiwan Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 64. Europe Postquantum Cryptography Chip Sales Market Share by Country in 2026

Figure 65. Europe Postquantum Cryptography Chip Revenue Market Share by Country (2021-2026)

Figure 66. Europe Postquantum Cryptography Chip Sales Market Share by Type (2021-2026)

Figure 67. Europe Postquantum Cryptography Chip Sales Market Share by Application (2021-2026)

Figure 68. Germany Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 69. France Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$

millions)

Figure 70. UK Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 71. Italy Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 72. Russia Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 73. Middle East & Africa Postquantum Cryptography Chip Sales Market Share by Country (2021-2026)

Figure 74. Middle East & Africa Postquantum Cryptography Chip Sales Market Share by Type (2021-2026)

Figure 75. Middle East & Africa Postquantum Cryptography Chip Sales Market Share by Application (2021-2026)

Figure 76. Egypt Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 77. South Africa Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 78. Israel Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 79. Turkey Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 80. GCC Countries Postquantum Cryptography Chip Revenue Growth 2021-2026 (\$ millions)

Figure 81. Manufacturing Cost Structure Analysis of Postquantum Cryptography Chip in 2026

Figure 82. Manufacturing Process Analysis of Postquantum Cryptography Chip

Figure 83. Industry Chain Structure of Postquantum Cryptography Chip

Figure 84. Channels of Distribution

Figure 85. Global Postquantum Cryptography Chip Sales Market Forecast by Region (2027-2032)

Figure 86. Global Postquantum Cryptography Chip Revenue Market Share Forecast by Region (2027-2032)

Figure 87. Global Postquantum Cryptography Chip Sales Market Share Forecast by Type (2027-2032)

Figure 88. Global Postquantum Cryptography Chip Revenue Market Share Forecast by Type (2027-2032)

Figure 89. Global Postquantum Cryptography Chip Sales Market Share Forecast by Application (2027-2032)

Figure 90. Global Postquantum Cryptography Chip Revenue Market Share Forecast by Application (2027-2032)

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