

Global Post-Quantum Cryptography (PQC) Solutions Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Post-Quantum Cryptography (PQC) Solutions market size is expected to reach \$ 4714 million by 2032, rising at a market growth of 18.5% CAGR during the forecast period (2026-2032).

Post-Quantum Cryptography (PQC) Solutions refer to a broad set of cybersecurity products, software platforms and professional services designed to protect digital systems against the future risk that quantum computers may break today's widely used public-key cryptography, such as RSA, ECC and DH. These solutions help governments, financial institutions, telecom operators, cloud providers, energy companies, industrial enterprises, healthcare organizations and large corporations discover cryptographic assets, assess quantum-related exposure, replace vulnerable algorithms, upgrade certificate and key infrastructures, adapt protocols, remediate applications, validate device compatibility, coordinate suppliers and maintain continuous compliance. The product scope includes PQC algorithm libraries, encryption SDKs, PQC-enabled TLS gateways, VPNs, network security appliances, HSMs, key management systems, PKI and certificate lifecycle management, cryptographic inventory tools, migration management platforms, interoperability testing tools and consulting services.

The gross margin of Post-Quantum Cryptography (PQC) Solutions depends on the product mix. Pure software subscriptions, cryptographic discovery, PKI and certificate management, migration platforms and encryption SDKs generally have strong software characteristics and can reach 70%–85% gross margin at maturity. PQC-enabled gateways, VPNs, HSMs, security chips and encryption appliances typically fall in the 40%–65% range, while consulting, assessment, system remediation, interoperability testing and managed migration services are usually around 35%–60%. Upstream inputs

include NIST-standardized PQC algorithms, cryptographic libraries, random-number generation, chips, HSMs, PKI, certificates, cloud platforms, operating systems, browsers, network protocol stacks and security hardware. The midstream layer covers PQC algorithm integration, cryptographic asset discovery, key management, protocol adaptation, certificate lifecycle management, migration orchestration, compatibility testing and compliance audit. Downstream users include government, defense, financial services, telecom, cloud services, energy, industrial control, healthcare, automotive, IoT and large enterprise IT systems.

Market Development Opportunities & Main Driving Factors

The market opportunity for Post-Quantum Cryptography Solutions is being driven by standardization, government roadmaps and critical infrastructure security upgrades. After NIST released the first three finalized PQC standards, enterprise procurement logic shifted from 'whether to prepare' to 'how to deploy in phases.' CISA, NIST and NSA have also recommended that organizations establish quantum-readiness roadmaps, engage technology vendors, inventory cryptographic systems and assets, and prioritize the migration of sensitive and critical assets. The commercial value of PQC solutions is that they do not merely replace individual algorithms; they cover the full lifecycle of cryptographic discovery, assessment, migration, validation and continuous governance. For CEOs and CISOs, PQC migration represents an infrastructure upgrade window across applications, networks, certificates, cloud environments, devices and supply chains, while also improving crypto-agility, long-term data protection, customer trust and regulatory auditability.

Market Challenges, Risks, & Restraints

The main challenges are the large migration scope, high technical heterogeneity and long enterprise decision cycle. The UK NCSC describes PQC migration as a mass technology change that will take years, requiring organizations to assess services, applications, data, hardware, software, networking equipment, mobile devices and supplier dependencies. This indicates that PQC implementation is not a standalone security-team project, but an enterprise architecture program. At the same time, PQC algorithms still require continued validation in terms of performance overhead, key size, protocol compatibility, legacy-system support, HSM and endpoint adaptation, and cross-vendor interoperability. In the early market, customers may also face fragmented budgets, unclear boundaries between software and hardware, a high share of consulting services, insufficiently standardized products, and functional overlap with PKI, certificate management, zero trust, GRC and vulnerability management platforms.

Downstream Demand Trends

Downstream demand will first emerge from government, defense, financial services, telecom, cloud services, energy, healthcare, industrial control and large multinational enterprises, because these sectors hold long-lived sensitive data, operate under stronger regulatory requirements, manage longer system lifecycles and depend on complex supplier ecosystems. The NCSC timeline calls for organizations to define migration goals, complete discovery and build initial plans by 2028, carry out the highest-priority migration activities by 2031, and complete migration of all systems, services and products by 2035. EU Member States, supported by the European Commission, have also issued a coordinated roadmap to support the transition to PQC. As policy timelines become clearer, downstream procurement will expand from standalone PQC algorithm libraries to end-to-end solutions, including cryptographic inventories, PQC-ready PKI, hybrid certificates, HSM upgrades, network equipment replacement, application remediation, supplier questionnaires, compliance reporting and continuous monitoring.

This report studies the global Post-Quantum Cryptography (PQC) Solutions demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Post-Quantum Cryptography (PQC) Solutions, 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 Post-Quantum Cryptography (PQC) Solutions that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Post-Quantum Cryptography (PQC) Solutions total market, 2021-2032, (USD Million)

Global Post-Quantum Cryptography (PQC) Solutions total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Post-Quantum Cryptography (PQC) Solutions total market, key domestic companies, and share, (USD Million)

Global Post-Quantum Cryptography (PQC) Solutions revenue by player, revenue and market share 2021-2026, (USD Million)

Global Post-Quantum Cryptography (PQC) Solutions total market by Type, CAGR, 2021-2032, (USD Million)

Global Post-Quantum Cryptography (PQC) Solutions total market by Application,

CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Post-Quantum Cryptography (PQC) Solutions 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, SandboxAQ, Keyfactor, DigiCert, Entrust, Thales, Cloudflare, PQShield, AppViewX, Sectigo, 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 Post-Quantum Cryptography (PQC) Solutions 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 Post-Quantum Cryptography (PQC) Solutions Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Post-Quantum Cryptography (PQC) Solutions Market, Segmentation by Type:

Software

Hardware

Services

Global Post-Quantum Cryptography (PQC) Solutions Market, Segmentation by Crypto-Agility Maturity:

Static Replacement

Hybrid Mode

Full Crypto-Agility

Global Post-Quantum Cryptography (PQC) Solutions Market, Segmentation by Technology Route:

Lattice-based Cryptography

Hash-based Signatures

Code-based Cryptography

Hybrid Classical and PQC Deployment

Hardware-Accelerated PQC

Others

Global Post-Quantum Cryptography (PQC) Solutions Market, Segmentation by Application:

Government and Defense

Financial Services

Telecommunications

Cloud and Technology Providers

Healthcare and Life Sciences

Energy and Critical Infrastructure

Manufacturing and Automotive

Others

Companies Profiled:

IBM

SandboxAQ

Keyfactor

DigiCert

Entrust

Thales

Cloudflare

PQShield

AppViewX

Sectigo

QuSecure

Fortanix

CryptoNext Security

ISARA Corporation

Arqit Quantum

Quantum XChange

Post-Quantum

Crypto4A Technologies

SEALSQ (WISeKey)

Eviden (Atos)

Samsung

Utimaco

Google

AWS

Securosys

SoftIron

SSH Communications Security

QNu Labs

evolutionQ

Qrypt

KryptoCyber

Nexus (IN Groupe)

GMO (GlobalSign)

F5

Hangzhou Post-Quantum Cryptography Technology

Houliang Technology

Koal Software

Zhongfu Information

Shenzhen Aolian Information Security

Key Questions Answered

1. How big is the global Post-Quantum Cryptography (PQC) Solutions market?
2. What is the demand of the global Post-Quantum Cryptography (PQC) Solutions market?
3. What is the year over year growth of the global Post-Quantum Cryptography (PQC) Solutions market?
4. What is the total value of the global Post-Quantum Cryptography (PQC) Solutions market?
5. Who are the Major Players in the global Post-Quantum Cryptography (PQC) Solutions market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032)
- 2.2 World Post-Quantum Cryptography (PQC) Solutions Consumption Value by Region
 - 2.2.1 World Post-Quantum Cryptography (PQC) Solutions Consumption Value by Region (2021-2026)
 - 2.2.2 World Post-Quantum Cryptography (PQC) Solutions Consumption Value Forecast by Region (2027-2032)

2.3 United States Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032)

2.4 China Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032)

2.5 Europe Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032)

2.6 Japan Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032)

2.7 South Korea Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032)

2.8 ASEAN Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032)

2.9 India Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032)

3 WORLD POST-QUANTUM CRYPTOGRAPHY (PQC) SOLUTIONS COMPANIES COMPETITIVE ANALYSIS

3.1 World Post-Quantum Cryptography (PQC) Solutions Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Post-Quantum Cryptography (PQC) Solutions Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Post-Quantum Cryptography (PQC) Solutions in 2025

3.2.3 Global Concentration Ratios (CR8) for Post-Quantum Cryptography (PQC) Solutions in 2025

3.3 Post-Quantum Cryptography (PQC) Solutions Company Evaluation Quadrant

3.4 Post-Quantum Cryptography (PQC) Solutions Market: Overall Company Footprint Analysis

3.4.1 Post-Quantum Cryptography (PQC) Solutions Market: Region Footprint

3.4.2 Post-Quantum Cryptography (PQC) Solutions Market: Company Product Type Footprint

3.4.3 Post-Quantum Cryptography (PQC) Solutions 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: Post-Quantum Cryptography (PQC) Solutions Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Post-Quantum Cryptography (PQC) Solutions Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Post-Quantum Cryptography (PQC) Solutions Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Post-Quantum Cryptography (PQC) Solutions Consumption Value Comparison

4.2.1 United States VS China: Post-Quantum Cryptography (PQC) Solutions Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Post-Quantum Cryptography (PQC) Solutions Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Post-Quantum Cryptography (PQC) Solutions Companies and Market Share, 2021-2026

4.3.1 United States Based Post-Quantum Cryptography (PQC) Solutions Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue, (2021-2026)

4.4 China Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue and Market Share, 2021-2026

4.4.1 China Based Post-Quantum Cryptography (PQC) Solutions Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue, (2021-2026)

4.5 Rest of World Based Post-Quantum Cryptography (PQC) Solutions Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Post-Quantum Cryptography (PQC) Solutions Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Post-Quantum Cryptography (PQC) Solutions Market Size Overview by Type:

2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Software

5.2.2 Hardware

5.2.3 Services

5.3 Market Segment by Type

5.3.1 World Post-Quantum Cryptography (PQC) Solutions Market Size by Type (2021-2026)

5.3.2 World Post-Quantum Cryptography (PQC) Solutions Market Size by Type (2027-2032)

5.3.3 World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY CRYPTO-AGILITY MATURITY

6.1 World Post-Quantum Cryptography (PQC) Solutions Market Size Overview by Crypto-Agility Maturity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Crypto-Agility Maturity

6.2.1 Static Replacement

6.2.2 Hybrid Mode

6.2.3 Full Crypto-Agility

6.3 Market Segment by Crypto-Agility Maturity

6.3.1 World Post-Quantum Cryptography (PQC) Solutions Market Size by Crypto-Agility Maturity (2021-2026)

6.3.2 World Post-Quantum Cryptography (PQC) Solutions Market Size by Crypto-Agility Maturity (2027-2032)

6.3.3 World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Crypto-Agility Maturity (2027-2032)

7 MARKET ANALYSIS BY TECHNOLOGY ROUTE

7.1 World Post-Quantum Cryptography (PQC) Solutions Market Size Overview by Technology Route: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Technology Route

7.2.1 Lattice-based Cryptography

7.2.2 Hash-based Signatures

7.2.3 Code-based Cryptography

7.2.4 Hybrid Classical and PQC Deployment

7.2.5 Hardware-Accelerated PQC

7.2.6 Others

7.3 Market Segment by Technology Route

7.3.1 World Post-Quantum Cryptography (PQC) Solutions Market Size by Technology Route (2021-2026)

7.3.2 World Post-Quantum Cryptography (PQC) Solutions Market Size by Technology Route (2027-2032)

7.3.3 World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Technology Route (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Post-Quantum Cryptography (PQC) Solutions Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Government and Defense

8.2.2 Financial Services

8.2.3 Telecommunications

8.2.4 Cloud and Technology Providers

8.2.5 Healthcare and Life Sciences

8.2.6 Energy and Critical Infrastructure

8.2.7 Manufacturing and Automotive

8.2.8 Others

8.3 Market Segment by Application

8.3.1 World Post-Quantum Cryptography (PQC) Solutions Market Size by Application (2021-2026)

8.3.2 World Post-Quantum Cryptography (PQC) Solutions Market Size by Application (2027-2032)

8.3.3 World Post-Quantum Cryptography (PQC) Solutions 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 Post-Quantum Cryptography (PQC) Solutions Product and Services

9.1.4 IBM Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 IBM Recent Developments/Updates

- 9.1.6 IBM Competitive Strengths & Weaknesses
- 9.2 SandboxAQ
 - 9.2.1 SandboxAQ Details
 - 9.2.2 SandboxAQ Major Business
 - 9.2.3 SandboxAQ Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.2.4 SandboxAQ Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.2.5 SandboxAQ Recent Developments/Updates
 - 9.2.6 SandboxAQ Competitive Strengths & Weaknesses
- 9.3 Keyfactor
 - 9.3.1 Keyfactor Details
 - 9.3.2 Keyfactor Major Business
 - 9.3.3 Keyfactor Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.3.4 Keyfactor Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Keyfactor Recent Developments/Updates
 - 9.3.6 Keyfactor Competitive Strengths & Weaknesses
- 9.4 DigiCert
 - 9.4.1 DigiCert Details
 - 9.4.2 DigiCert Major Business
 - 9.4.3 DigiCert Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.4.4 DigiCert Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.4.5 DigiCert Recent Developments/Updates
 - 9.4.6 DigiCert Competitive Strengths & Weaknesses
- 9.5 Entrust
 - 9.5.1 Entrust Details
 - 9.5.2 Entrust Major Business
 - 9.5.3 Entrust Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.5.4 Entrust Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Entrust Recent Developments/Updates
 - 9.5.6 Entrust Competitive Strengths & Weaknesses
- 9.6 Thales
 - 9.6.1 Thales Details
 - 9.6.2 Thales Major Business
 - 9.6.3 Thales Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.6.4 Thales Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

- 9.6.5 Thales Recent Developments/Updates
- 9.6.6 Thales Competitive Strengths & Weaknesses
- 9.7 Cloudflare
 - 9.7.1 Cloudflare Details
 - 9.7.2 Cloudflare Major Business
 - 9.7.3 Cloudflare Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.7.4 Cloudflare Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Cloudflare Recent Developments/Updates
 - 9.7.6 Cloudflare Competitive Strengths & Weaknesses
- 9.8 PQShield
 - 9.8.1 PQShield Details
 - 9.8.2 PQShield Major Business
 - 9.8.3 PQShield Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.8.4 PQShield Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.8.5 PQShield Recent Developments/Updates
 - 9.8.6 PQShield Competitive Strengths & Weaknesses
- 9.9 AppViewX
 - 9.9.1 AppViewX Details
 - 9.9.2 AppViewX Major Business
 - 9.9.3 AppViewX Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.9.4 AppViewX Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.9.5 AppViewX Recent Developments/Updates
 - 9.9.6 AppViewX Competitive Strengths & Weaknesses
- 9.10 Sectigo
 - 9.10.1 Sectigo Details
 - 9.10.2 Sectigo Major Business
 - 9.10.3 Sectigo Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.10.4 Sectigo Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Sectigo Recent Developments/Updates
 - 9.10.6 Sectigo Competitive Strengths & Weaknesses
- 9.11 QuSecure
 - 9.11.1 QuSecure Details
 - 9.11.2 QuSecure Major Business
 - 9.11.3 QuSecure Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.11.4 QuSecure Post-Quantum Cryptography (PQC) Solutions Revenue, Gross

Margin and Market Share (2021-2026)

9.11.5 QuSecure Recent Developments/Updates

9.11.6 QuSecure Competitive Strengths & Weaknesses

9.12 Fortanix

9.12.1 Fortanix Details

9.12.2 Fortanix Major Business

9.12.3 Fortanix Post-Quantum Cryptography (PQC) Solutions Product and Services

9.12.4 Fortanix Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 Fortanix Recent Developments/Updates

9.12.6 Fortanix Competitive Strengths & Weaknesses

9.13 CryptoNext Security

9.13.1 CryptoNext Security Details

9.13.2 CryptoNext Security Major Business

9.13.3 CryptoNext Security Post-Quantum Cryptography (PQC) Solutions Product and Services

9.13.4 CryptoNext Security Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 CryptoNext Security Recent Developments/Updates

9.13.6 CryptoNext Security Competitive Strengths & Weaknesses

9.14 ISARA Corporation

9.14.1 ISARA Corporation Details

9.14.2 ISARA Corporation Major Business

9.14.3 ISARA Corporation Post-Quantum Cryptography (PQC) Solutions Product and Services

9.14.4 ISARA Corporation Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 ISARA Corporation Recent Developments/Updates

9.14.6 ISARA Corporation Competitive Strengths & Weaknesses

9.15 Arqit Quantum

9.15.1 Arqit Quantum Details

9.15.2 Arqit Quantum Major Business

9.15.3 Arqit Quantum Post-Quantum Cryptography (PQC) Solutions Product and Services

9.15.4 Arqit Quantum Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.15.5 Arqit Quantum Recent Developments/Updates

9.15.6 Arqit Quantum Competitive Strengths & Weaknesses

9.16 Quantum XChange

- 9.16.1 Quantum XChange Details
- 9.16.2 Quantum XChange Major Business
- 9.16.3 Quantum XChange Post-Quantum Cryptography (PQC) Solutions Product and Services
- 9.16.4 Quantum XChange Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
- 9.16.5 Quantum XChange Recent Developments/Updates
- 9.16.6 Quantum XChange Competitive Strengths & Weaknesses
- 9.17 Post-Quantum
 - 9.17.1 Post-Quantum Details
 - 9.17.2 Post-Quantum Major Business
 - 9.17.3 Post-Quantum Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.17.4 Post-Quantum Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Post-Quantum Recent Developments/Updates
 - 9.17.6 Post-Quantum Competitive Strengths & Weaknesses
- 9.18 Crypto4A Technologies
 - 9.18.1 Crypto4A Technologies Details
 - 9.18.2 Crypto4A Technologies Major Business
 - 9.18.3 Crypto4A Technologies Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.18.4 Crypto4A Technologies Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Crypto4A Technologies Recent Developments/Updates
 - 9.18.6 Crypto4A Technologies Competitive Strengths & Weaknesses
- 9.19 SEALSQ (WiSeKey)
 - 9.19.1 SEALSQ (WiSeKey) Details
 - 9.19.2 SEALSQ (WiSeKey) Major Business
 - 9.19.3 SEALSQ (WiSeKey) Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.19.4 SEALSQ (WiSeKey) Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.19.5 SEALSQ (WiSeKey) Recent Developments/Updates
 - 9.19.6 SEALSQ (WiSeKey) Competitive Strengths & Weaknesses
- 9.20 Eviden (Atos)
 - 9.20.1 Eviden (Atos) Details
 - 9.20.2 Eviden (Atos) Major Business
 - 9.20.3 Eviden (Atos) Post-Quantum Cryptography (PQC) Solutions Product and

Services

9.20.4 Eviden (Atos) Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.20.5 Eviden (Atos) Recent Developments/Updates

9.20.6 Eviden (Atos) Competitive Strengths & Weaknesses

9.21 Samsung

9.21.1 Samsung Details

9.21.2 Samsung Major Business

9.21.3 Samsung Post-Quantum Cryptography (PQC) Solutions Product and Services

9.21.4 Samsung Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.21.5 Samsung Recent Developments/Updates

9.21.6 Samsung Competitive Strengths & Weaknesses

9.22 Utimaco

9.22.1 Utimaco Details

9.22.2 Utimaco Major Business

9.22.3 Utimaco Post-Quantum Cryptography (PQC) Solutions Product and Services

9.22.4 Utimaco Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.22.5 Utimaco Recent Developments/Updates

9.22.6 Utimaco Competitive Strengths & Weaknesses

9.23 Google

9.23.1 Google Details

9.23.2 Google Major Business

9.23.3 Google Post-Quantum Cryptography (PQC) Solutions Product and Services

9.23.4 Google Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.23.5 Google Recent Developments/Updates

9.23.6 Google Competitive Strengths & Weaknesses

9.24 AWS

9.24.1 AWS Details

9.24.2 AWS Major Business

9.24.3 AWS Post-Quantum Cryptography (PQC) Solutions Product and Services

9.24.4 AWS Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.24.5 AWS Recent Developments/Updates

9.24.6 AWS Competitive Strengths & Weaknesses

9.25 Securosys

9.25.1 Securosys Details

- 9.25.2 Securosys Major Business
- 9.25.3 Securosys Post-Quantum Cryptography (PQC) Solutions Product and Services
- 9.25.4 Securosys Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
- 9.25.5 Securosys Recent Developments/Updates
- 9.25.6 Securosys Competitive Strengths & Weaknesses
- 9.26 SoftIron
 - 9.26.1 SoftIron Details
 - 9.26.2 SoftIron Major Business
 - 9.26.3 SoftIron Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.26.4 SoftIron Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.26.5 SoftIron Recent Developments/Updates
 - 9.26.6 SoftIron Competitive Strengths & Weaknesses
- 9.27 SSH Communications Security
 - 9.27.1 SSH Communications Security Details
 - 9.27.2 SSH Communications Security Major Business
 - 9.27.3 SSH Communications Security Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.27.4 SSH Communications Security Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.27.5 SSH Communications Security Recent Developments/Updates
 - 9.27.6 SSH Communications Security Competitive Strengths & Weaknesses
- 9.28 QNu Labs
 - 9.28.1 QNu Labs Details
 - 9.28.2 QNu Labs Major Business
 - 9.28.3 QNu Labs Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.28.4 QNu Labs Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.28.5 QNu Labs Recent Developments/Updates
 - 9.28.6 QNu Labs Competitive Strengths & Weaknesses
- 9.29 evolutionQ
 - 9.29.1 evolutionQ Details
 - 9.29.2 evolutionQ Major Business
 - 9.29.3 evolutionQ Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.29.4 evolutionQ Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.29.5 evolutionQ Recent Developments/Updates
 - 9.29.6 evolutionQ Competitive Strengths & Weaknesses

9.30 Qrypt

9.30.1 Qrypt Details

9.30.2 Qrypt Major Business

9.30.3 Qrypt Post-Quantum Cryptography (PQC) Solutions Product and Services

9.30.4 Qrypt Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.30.5 Qrypt Recent Developments/Updates

9.30.6 Qrypt Competitive Strengths & Weaknesses

9.31 QryptoCyber

9.31.1 QryptoCyber Details

9.31.2 QryptoCyber Major Business

9.31.3 QryptoCyber Post-Quantum Cryptography (PQC) Solutions Product and Services

9.31.4 QryptoCyber Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.31.5 QryptoCyber Recent Developments/Updates

9.31.6 QryptoCyber Competitive Strengths & Weaknesses

9.32 Nexus (IN Groupe)

9.32.1 Nexus (IN Groupe) Details

9.32.2 Nexus (IN Groupe) Major Business

9.32.3 Nexus (IN Groupe) Post-Quantum Cryptography (PQC) Solutions Product and Services

9.32.4 Nexus (IN Groupe) Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.32.5 Nexus (IN Groupe) Recent Developments/Updates

9.32.6 Nexus (IN Groupe) Competitive Strengths & Weaknesses

9.33 GMO (GlobalSign)

9.33.1 GMO (GlobalSign) Details

9.33.2 GMO (GlobalSign) Major Business

9.33.3 GMO (GlobalSign) Post-Quantum Cryptography (PQC) Solutions Product and Services

9.33.4 GMO (GlobalSign) Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.33.5 GMO (GlobalSign) Recent Developments/Updates

9.33.6 GMO (GlobalSign) Competitive Strengths & Weaknesses

9.34 F5

9.34.1 F5 Details

9.34.2 F5 Major Business

9.34.3 F5 Post-Quantum Cryptography (PQC) Solutions Product and Services

- 9.34.4 F5 Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
- 9.34.5 F5 Recent Developments/Updates
- 9.34.6 F5 Competitive Strengths & Weaknesses
- 9.35 Hangzhou Post-Quantum Cryptography Technology
 - 9.35.1 Hangzhou Post-Quantum Cryptography Technology Details
 - 9.35.2 Hangzhou Post-Quantum Cryptography Technology Major Business
 - 9.35.3 Hangzhou Post-Quantum Cryptography Technology Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.35.4 Hangzhou Post-Quantum Cryptography Technology Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.35.5 Hangzhou Post-Quantum Cryptography Technology Recent Developments/Updates
 - 9.35.6 Hangzhou Post-Quantum Cryptography Technology Competitive Strengths & Weaknesses
- 9.36 Houliang Technology
 - 9.36.1 Houliang Technology Details
 - 9.36.2 Houliang Technology Major Business
 - 9.36.3 Houliang Technology Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.36.4 Houliang Technology Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.36.5 Houliang Technology Recent Developments/Updates
 - 9.36.6 Houliang Technology Competitive Strengths & Weaknesses
- 9.37 Koal Software
 - 9.37.1 Koal Software Details
 - 9.37.2 Koal Software Major Business
 - 9.37.3 Koal Software Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.37.4 Koal Software Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026)
 - 9.37.5 Koal Software Recent Developments/Updates
 - 9.37.6 Koal Software Competitive Strengths & Weaknesses
- 9.38 Zhongfu Information
 - 9.38.1 Zhongfu Information Details
 - 9.38.2 Zhongfu Information Major Business
 - 9.38.3 Zhongfu Information Post-Quantum Cryptography (PQC) Solutions Product and Services
 - 9.38.4 Zhongfu Information Post-Quantum Cryptography (PQC) Solutions Revenue,

Gross Margin and Market Share (2021-2026)

9.38.5 Zhongfu Information Recent Developments/Updates

9.38.6 Zhongfu Information Competitive Strengths & Weaknesses

9.39 Shenzhen Aolian Information Security

9.39.1 Shenzhen Aolian Information Security Details

9.39.2 Shenzhen Aolian Information Security Major Business

9.39.3 Shenzhen Aolian Information Security Post-Quantum Cryptography (PQC)

Solutions Product and Services

9.39.4 Shenzhen Aolian Information Security Post-Quantum Cryptography (PQC)

Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.39.5 Shenzhen Aolian Information Security Recent Developments/Updates

9.39.6 Shenzhen Aolian Information Security Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Post-Quantum Cryptography (PQC) Solutions Industry Chain

10.2 Post-Quantum Cryptography (PQC) Solutions Upstream Analysis

10.3 Post-Quantum Cryptography (PQC) Solutions Midstream Analysis

10.4 Post-Quantum Cryptography (PQC) Solutions 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 Post-Quantum Cryptography (PQC) Solutions Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Post-Quantum Cryptography (PQC) Solutions Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Post-Quantum Cryptography (PQC) Solutions Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Post-Quantum Cryptography (PQC) Solutions Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Post-Quantum Cryptography (PQC) Solutions Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Post-Quantum Cryptography (PQC) Solutions Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Post-Quantum Cryptography (PQC) Solutions Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Post-Quantum Cryptography (PQC) Solutions Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Post-Quantum Cryptography (PQC) Solutions Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Post-Quantum Cryptography (PQC) Solutions Players in 2025

Table 12. World Post-Quantum Cryptography (PQC) Solutions Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Post-Quantum Cryptography (PQC) Solutions Company Evaluation Quadrant

Table 14. Head Office of Key Post-Quantum Cryptography (PQC) Solutions Players

Table 15. Post-Quantum Cryptography (PQC) Solutions Market: Company Product Type Footprint

Table 16. Post-Quantum Cryptography (PQC) Solutions Market: Company Product Application Footprint

Table 17. Post-Quantum Cryptography (PQC) Solutions Mergers & Acquisitions Activity

Table 18. United States VS China Post-Quantum Cryptography (PQC) Solutions Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Post-Quantum Cryptography (PQC) Solutions Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

- Table 20. United States Based Post-Quantum Cryptography (PQC) Solutions Companies, Headquarters (States, Country)
- Table 21. United States Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue, (2021-2026) & (USD Million)
- Table 22. United States Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue Market Share (2021-2026)
- Table 23. China Based Post-Quantum Cryptography (PQC) Solutions Companies, Headquarters (Province, Country)
- Table 24. China Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue, (2021-2026) & (USD Million)
- Table 25. China Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue Market Share (2021-2026)
- Table 26. Rest of World Based Post-Quantum Cryptography (PQC) Solutions Companies, Headquarters (Province, Country)
- Table 27. Rest of World Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2026) & (USD Million)
- Table 28. Rest of World Based Companies Post-Quantum Cryptography (PQC) Solutions Revenue Market Share (2021-2026)
- Table 29. World Post-Quantum Cryptography (PQC) Solutions Market Size by Type, (USD Million), 2021 & 2025 & 2032
- Table 30. World Post-Quantum Cryptography (PQC) Solutions Market Size Value by Type (2021-2026) & (USD Million)
- Table 31. World Post-Quantum Cryptography (PQC) Solutions Market Size by Type (2027-2032) & (USD Million)
- Table 32. World Post-Quantum Cryptography (PQC) Solutions Market Size by Crypto-Agility Maturity, (USD Million), 2021 & 2025 & 2032
- Table 33. World Post-Quantum Cryptography (PQC) Solutions Market Size Value by Crypto-Agility Maturity (2021-2026) & (USD Million)
- Table 34. World Post-Quantum Cryptography (PQC) Solutions Market Size by Crypto-Agility Maturity (2027-2032) & (USD Million)
- Table 35. World Post-Quantum Cryptography (PQC) Solutions Market Size by Technology Route, (USD Million), 2021 & 2025 & 2032
- Table 36. World Post-Quantum Cryptography (PQC) Solutions Market Size Value by Technology Route (2021-2026) & (USD Million)
- Table 37. World Post-Quantum Cryptography (PQC) Solutions Market Size by Technology Route (2027-2032) & (USD Million)
- Table 38. World Post-Quantum Cryptography (PQC) Solutions Market Size by Application, (USD Million), 2021 & 2025 & 2032
- Table 39. World Post-Quantum Cryptography (PQC) Solutions Market Size by

Application (2021-2026) & (USD Million)

Table 40. World Post-Quantum Cryptography (PQC) Solutions 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 Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 44. IBM Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. IBM Recent Developments/Updates

Table 46. IBM Competitive Strengths & Weaknesses

Table 47. SandboxAQ Basic Information, Manufacturing Base and Competitors

Table 48. SandboxAQ Major Business

Table 49. SandboxAQ Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 50. SandboxAQ Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. SandboxAQ Recent Developments/Updates

Table 52. SandboxAQ Competitive Strengths & Weaknesses

Table 53. Keyfactor Basic Information, Manufacturing Base and Competitors

Table 54. Keyfactor Major Business

Table 55. Keyfactor Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 56. Keyfactor Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Keyfactor Recent Developments/Updates

Table 58. Keyfactor Competitive Strengths & Weaknesses

Table 59. DigiCert Basic Information, Manufacturing Base and Competitors

Table 60. DigiCert Major Business

Table 61. DigiCert Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 62. DigiCert Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. DigiCert Recent Developments/Updates

Table 64. DigiCert Competitive Strengths & Weaknesses

Table 65. Entrust Basic Information, Manufacturing Base and Competitors

Table 66. Entrust Major Business

Table 67. Entrust Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 68. Entrust Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. Entrust Recent Developments/Updates

Table 70. Entrust Competitive Strengths & Weaknesses

- Table 71. Thales Basic Information, Manufacturing Base and Competitors
- Table 72. Thales Major Business
- Table 73. Thales Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 74. Thales Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 75. Thales Recent Developments/Updates
- Table 76. Thales Competitive Strengths & Weaknesses
- Table 77. Cloudflare Basic Information, Manufacturing Base and Competitors
- Table 78. Cloudflare Major Business
- Table 79. Cloudflare Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 80. Cloudflare Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. Cloudflare Recent Developments/Updates
- Table 82. Cloudflare Competitive Strengths & Weaknesses
- Table 83. PQShield Basic Information, Manufacturing Base and Competitors
- Table 84. PQShield Major Business
- Table 85. PQShield Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 86. PQShield Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. PQShield Recent Developments/Updates
- Table 88. PQShield Competitive Strengths & Weaknesses
- Table 89. AppViewX Basic Information, Manufacturing Base and Competitors
- Table 90. AppViewX Major Business
- Table 91. AppViewX Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 92. AppViewX Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. AppViewX Recent Developments/Updates
- Table 94. AppViewX Competitive Strengths & Weaknesses
- Table 95. Sectigo Basic Information, Manufacturing Base and Competitors
- Table 96. Sectigo Major Business
- Table 97. Sectigo Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 98. Sectigo Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. Sectigo Recent Developments/Updates
- Table 100. Sectigo Competitive Strengths & Weaknesses
- Table 101. QuSecure Basic Information, Manufacturing Base and Competitors
- Table 102. QuSecure Major Business

- Table 103. QuSecure Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 104. QuSecure Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 105. QuSecure Recent Developments/Updates
- Table 106. QuSecure Competitive Strengths & Weaknesses
- Table 107. Fortanix Basic Information, Manufacturing Base and Competitors
- Table 108. Fortanix Major Business
- Table 109. Fortanix Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 110. Fortanix Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 111. Fortanix Recent Developments/Updates
- Table 112. Fortanix Competitive Strengths & Weaknesses
- Table 113. CryptoNext Security Basic Information, Manufacturing Base and Competitors
- Table 114. CryptoNext Security Major Business
- Table 115. CryptoNext Security Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 116. CryptoNext Security Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 117. CryptoNext Security Recent Developments/Updates
- Table 118. CryptoNext Security Competitive Strengths & Weaknesses
- Table 119. ISARA Corporation Basic Information, Manufacturing Base and Competitors
- Table 120. ISARA Corporation Major Business
- Table 121. ISARA Corporation Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 122. ISARA Corporation Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 123. ISARA Corporation Recent Developments/Updates
- Table 124. ISARA Corporation Competitive Strengths & Weaknesses
- Table 125. Arqit Quantum Basic Information, Manufacturing Base and Competitors
- Table 126. Arqit Quantum Major Business
- Table 127. Arqit Quantum Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 128. Arqit Quantum Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 129. Arqit Quantum Recent Developments/Updates
- Table 130. Arqit Quantum Competitive Strengths & Weaknesses
- Table 131. Quantum XChange Basic Information, Manufacturing Base and Competitors
- Table 132. Quantum XChange Major Business

Table 133. Quantum XChange Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 134. Quantum XChange Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 135. Quantum XChange Recent Developments/Updates

Table 136. Quantum XChange Competitive Strengths & Weaknesses

Table 137. Post-Quantum Basic Information, Manufacturing Base and Competitors

Table 138. Post-Quantum Major Business

Table 139. Post-Quantum Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 140. Post-Quantum Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 141. Post-Quantum Recent Developments/Updates

Table 142. Post-Quantum Competitive Strengths & Weaknesses

Table 143. Crypto4A Technologies Basic Information, Manufacturing Base and Competitors

Table 144. Crypto4A Technologies Major Business

Table 145. Crypto4A Technologies Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 146. Crypto4A Technologies Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 147. Crypto4A Technologies Recent Developments/Updates

Table 148. Crypto4A Technologies Competitive Strengths & Weaknesses

Table 149. SEALSQ (WiSeKey) Basic Information, Manufacturing Base and Competitors

Table 150. SEALSQ (WiSeKey) Major Business

Table 151. SEALSQ (WiSeKey) Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 152. SEALSQ (WiSeKey) Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 153. SEALSQ (WiSeKey) Recent Developments/Updates

Table 154. SEALSQ (WiSeKey) Competitive Strengths & Weaknesses

Table 155. Eviden (Atos) Basic Information, Manufacturing Base and Competitors

Table 156. Eviden (Atos) Major Business

Table 157. Eviden (Atos) Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 158. Eviden (Atos) Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 159. Eviden (Atos) Recent Developments/Updates

- Table 160. Eviden (Atos) Competitive Strengths & Weaknesses
- Table 161. Samsung Basic Information, Manufacturing Base and Competitors
- Table 162. Samsung Major Business
- Table 163. Samsung Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 164. Samsung Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 165. Samsung Recent Developments/Updates
- Table 166. Samsung Competitive Strengths & Weaknesses
- Table 167. Utimaco Basic Information, Manufacturing Base and Competitors
- Table 168. Utimaco Major Business
- Table 169. Utimaco Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 170. Utimaco Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 171. Utimaco Recent Developments/Updates
- Table 172. Utimaco Competitive Strengths & Weaknesses
- Table 173. Google Basic Information, Manufacturing Base and Competitors
- Table 174. Google Major Business
- Table 175. Google Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 176. Google Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 177. Google Recent Developments/Updates
- Table 178. Google Competitive Strengths & Weaknesses
- Table 179. AWS Basic Information, Manufacturing Base and Competitors
- Table 180. AWS Major Business
- Table 181. AWS Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 182. AWS Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 183. AWS Recent Developments/Updates
- Table 184. AWS Competitive Strengths & Weaknesses
- Table 185. Securosys Basic Information, Manufacturing Base and Competitors
- Table 186. Securosys Major Business
- Table 187. Securosys Post-Quantum Cryptography (PQC) Solutions Product and Services
- Table 188. Securosys Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 189. Securosys Recent Developments/Updates
- Table 190. Securosys Competitive Strengths & Weaknesses
- Table 191. SoftIron Basic Information, Manufacturing Base and Competitors

Table 192. Softlron Major Business

Table 193. Softlron Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 194. Softlron Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 195. Softlron Recent Developments/Updates

Table 196. Softlron Competitive Strengths & Weaknesses

Table 197. SSH Communications Security Basic Information, Manufacturing Base and Competitors

Table 198. SSH Communications Security Major Business

Table 199. SSH Communications Security Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 200. SSH Communications Security Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 201. SSH Communications Security Recent Developments/Updates

Table 202. SSH Communications Security Competitive Strengths & Weaknesses

Table 203. QNu Labs Basic Information, Manufacturing Base and Competitors

Table 204. QNu Labs Major Business

Table 205. QNu Labs Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 206. QNu Labs Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 207. QNu Labs Recent Developments/Updates

Table 208. QNu Labs Competitive Strengths & Weaknesses

Table 209. evolutionQ Basic Information, Manufacturing Base and Competitors

Table 210. evolutionQ Major Business

Table 211. evolutionQ Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 212. evolutionQ Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 213. evolutionQ Recent Developments/Updates

Table 214. evolutionQ Competitive Strengths & Weaknesses

Table 215. Qrypt Basic Information, Manufacturing Base and Competitors

Table 216. Qrypt Major Business

Table 217. Qrypt Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 218. Qrypt Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 219. Qrypt Recent Developments/Updates

Table 220. Qrypt Competitive Strengths & Weaknesses

Table 221. QryptoCyber Basic Information, Manufacturing Base and Competitors

Table 222. QryptoCyber Major Business

Table 223. QryptoCyber Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 224. QryptoCyber Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 225. QryptoCyber Recent Developments/Updates

Table 226. QryptoCyber Competitive Strengths & Weaknesses

Table 227. Nexus (IN Groupe) Basic Information, Manufacturing Base and Competitors

Table 228. Nexus (IN Groupe) Major Business

Table 229. Nexus (IN Groupe) Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 230. Nexus (IN Groupe) Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 231. Nexus (IN Groupe) Recent Developments/Updates

Table 232. Nexus (IN Groupe) Competitive Strengths & Weaknesses

Table 233. GMO (GlobalSign) Basic Information, Manufacturing Base and Competitors

Table 234. GMO (GlobalSign) Major Business

Table 235. GMO (GlobalSign) Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 236. GMO (GlobalSign) Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 237. GMO (GlobalSign) Recent Developments/Updates

Table 238. GMO (GlobalSign) Competitive Strengths & Weaknesses

Table 239. F5 Basic Information, Manufacturing Base and Competitors

Table 240. F5 Major Business

Table 241. F5 Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 242. F5 Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 243. F5 Recent Developments/Updates

Table 244. F5 Competitive Strengths & Weaknesses

Table 245. Hangzhou Post-Quantum Cryptography Technology Basic Information, Manufacturing Base and Competitors

Table 246. Hangzhou Post-Quantum Cryptography Technology Major Business

Table 247. Hangzhou Post-Quantum Cryptography Technology Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 248. Hangzhou Post-Quantum Cryptography Technology Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 249. Hangzhou Post-Quantum Cryptography Technology Recent

Developments/Updates

Table 250. Hangzhou Post-Quantum Cryptography Technology Competitive Strengths & Weaknesses

Table 251. Houliang Technology Basic Information, Manufacturing Base and Competitors

Table 252. Houliang Technology Major Business

Table 253. Houliang Technology Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 254. Houliang Technology Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 255. Houliang Technology Recent Developments/Updates

Table 256. Houliang Technology Competitive Strengths & Weaknesses

Table 257. Koal Software Basic Information, Manufacturing Base and Competitors

Table 258. Koal Software Major Business

Table 259. Koal Software Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 260. Koal Software Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 261. Koal Software Recent Developments/Updates

Table 262. Koal Software Competitive Strengths & Weaknesses

Table 263. Zhongfu Information Basic Information, Manufacturing Base and Competitors

Table 264. Zhongfu Information Major Business

Table 265. Zhongfu Information Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 266. Zhongfu Information Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 267. Zhongfu Information Recent Developments/Updates

Table 268. Zhongfu Information Competitive Strengths & Weaknesses

Table 269. Shenzhen Aolian Information Security Basic Information, Manufacturing Base and Competitors

Table 270. Shenzhen Aolian Information Security Major Business

Table 271. Shenzhen Aolian Information Security Post-Quantum Cryptography (PQC) Solutions Product and Services

Table 272. Shenzhen Aolian Information Security Post-Quantum Cryptography (PQC) Solutions Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 273. Shenzhen Aolian Information Security Recent Developments/Updates

Table 274. Shenzhen Aolian Information Security Competitive Strengths & Weaknesses

Table 275. Global Key Players of Post-Quantum Cryptography (PQC) Solutions

Upstream (Raw Materials)

Table 276. Global Post-Quantum Cryptography (PQC) Solutions Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Post-Quantum Cryptography (PQC) Solutions Picture

Figure 2. World Post-Quantum Cryptography (PQC) Solutions Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Post-Quantum Cryptography (PQC) Solutions Total Revenue (2021-2032) & (USD Million)

Figure 4. World Post-Quantum Cryptography (PQC) Solutions Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Post-Quantum Cryptography (PQC) Solutions Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Post-Quantum Cryptography (PQC) Solutions Revenue (2021-2032) & (USD Million)

Figure 13. Post-Quantum Cryptography (PQC) Solutions Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032) & (USD Million)

Figure 16. World Post-Quantum Cryptography (PQC) Solutions Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032) & (USD Million)

Figure 18. China Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032) & (USD Million)

Figure 23. India Post-Quantum Cryptography (PQC) Solutions Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Post-Quantum Cryptography (PQC) Solutions by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Post-Quantum Cryptography (PQC) Solutions Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Post-Quantum Cryptography (PQC) Solutions Markets in 2025

Figure 27. United States VS China: Post-Quantum Cryptography (PQC) Solutions Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Post-Quantum Cryptography (PQC) Solutions Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Post-Quantum Cryptography (PQC) Solutions Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Type in 2025

Figure 31. Software

Figure 32. Hardware

Figure 33. Services

Figure 34. World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Type (2021-2032)

Figure 35. World Post-Quantum Cryptography (PQC) Solutions Market Size by Crypto-Agility Maturity, (USD Million), 2021 & 2025 & 2032

Figure 36. World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Crypto-Agility Maturity in 2025

Figure 37. Static Replacement

Figure 38. Hybrid Mode

Figure 39. Full Crypto-Agility

Figure 40. World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Crypto-Agility Maturity (2021-2032)

Figure 41. World Post-Quantum Cryptography (PQC) Solutions Market Size by Technology Route, (USD Million), 2021 & 2025 & 2032

Figure 42. World Post-Quantum Cryptography (PQC) Solutions Market Size Market

Share by Technology Route in 2025

Figure 43. Lattice-based Cryptography

Figure 44. Hash-based Signatures

Figure 45. Code-based Cryptography

Figure 46. Hybrid Classical and PQC Deployment

Figure 47. Hardware-Accelerated PQC

Figure 48. Others

Figure 49. World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Technology Route (2021-2032)

Figure 50. World Post-Quantum Cryptography (PQC) Solutions Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Application in 2025

Figure 52. Government and Defense

Figure 53. Financial Services

Figure 54. Telecommunications

Figure 55. Cloud and Technology Providers

Figure 56. Healthcare and Life Sciences

Figure 57. Energy and Critical Infrastructure

Figure 58. Manufacturing and Automotive

Figure 59. Others

Figure 60. Others

Figure 61. World Post-Quantum Cryptography (PQC) Solutions Market Size Market Share by Application (2021-2032)

Figure 62. Post-Quantum Cryptography (PQC) Solutions Industrial Chain

Figure 63. Methodology

Figure 64. Research Process and Data Source

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