

Global Post Quantum Cryptography Market: Focus on End Use Industry, Application, Type, and Region

<https://marketpublishers.com/r/GAD43C7EA285EN.html>

Date: July 2024

Pages: 0

Price: US\$ 4,850.00 (Single User License)

ID: GAD43C7EA285EN

Abstracts

Hard copy option is available on any of the options above at an additional charge of \$500. Please email us at order@marketpublishers.com with your request.

This report will be delivered in 7-10 working days.

Introduction to Post-Quantum Cryptography Market

The post-quantum cryptography market is witnessing substantial growth, driven by various factors and market drivers. In an optimistic scenario, the market is anticipated to reach a \$10.26 billion by 2034. A primary catalyst for this growth is the escalating demand for secure and resilient cryptographic solutions in the face of emerging quantum computing threats. Post-quantum cryptography systems play a pivotal role in meeting the increasing demand for robust encryption and data protection among organizations, governments, and industries. This demand is driven by various sectors, including finance, healthcare, government, and critical infrastructure, recognizing the importance of safeguarding sensitive information against potential quantum attacks.

The rising awareness of the significance of cybersecurity and data privacy acts as a significant driver for the post-quantum cryptography market. Organizations are increasingly investing in advanced cryptographic solutions to enhance their security posture and ensure the confidentiality and integrity of their data in a post-quantum computing era. The integration of advanced cryptographic algorithms and protocols presents lucrative opportunities for the expansion of the post-quantum cryptography market. This suggests a promising future for this market as it navigates through obstacles, including the need for standardized cryptographic solutions and interoperability across diverse systems and platforms.

The North America region is witnessing substantial growth in the post-quantum cryptography market. Countries such as the United States, Canada, and Mexico have implemented policies, incentives, and regulatory measures to promote the adoption of post-quantum cryptographic solutions, driven by the need for enhanced cybersecurity and data protection strategies.

Companies such as IBM Corporation, Thales, and Toshiba are at the forefront, offering a wide range of post-quantum cryptography products and services catering to various industries, including finance, healthcare, government, and technology sectors. These companies play a crucial role in shaping the post-quantum cryptography market, leveraging their expertise in cryptographic technologies, quantum-resistant algorithms, and cybersecurity solutions.

The post-quantum cryptography market is experiencing robust growth, fueled by the growing emphasis on cybersecurity resilience, technological advancements, and the increasing adoption of quantum-resistant cryptographic solutions across various industries and sectors

Market Segmentation:

Segmentation 1: by End-Use Industry

IT and Telecommunication

Banking, Financial Services, and Insurance (BFSI)

Government and Defense

Healthcare

Others

Segmentation 2: by Application

Network Security

Application Security

Segmentation 3: by Type

Lattice-based Cryptography

Code-based Cryptography

Multivariate Cryptography

Hash-based Cryptography

Isogeny-Based Cryptography

Symmetric Key Quantum Resistance

Segmentation 4: by Region

North America

Europe

Asia-Pacific

Rest-of-the-World

Contents

Executive Summary
Scope and Definition
Market/Product Definition
Key Questions Answered
Analysis and Forecast Note

1. MARKETS: INDUSTRY OUTLOOK

1.1 Trends: Current and Future Impact Assessment
 1.1.1 Cloud-based Post Quantum Cryptography
 1.1.2 Leveraging AI/ML for Enhanced Post Quantum Cryptography
1.2 National Institute of Standards and Technology (NIST) Standardization Efforts for Post Quantum Cryptography
1.3 Quantum Key Distribution (QKD) Vs Post Quantum Cryptography
1.4 Ongoing Programs
1.5 Startups and Investment Scenario
1.6 Market Dynamics Overview
 1.6.1 Market Drivers
 1.6.2 Market Restraints
 1.6.3 Market Opportunities

2. GLOBAL POST QUANTUM CRYPTOGRAPHY MARKET BY APPLICATION

2.1 Application Summary
2.2 Global Post Quantum Cryptography Market by End Use Industry
 2.2.1 IT & Telecommunication
 2.2.2 Banking, Financial Services & Insurance (BFSI)
 2.2.3 Government & Defense
 2.2.4 Healthcare
 2.2.5 Others
2.3 Global Post Quantum Cryptography Market by Application
 2.3.1 Network Security
 2.3.2 Application Security

3. GLOBAL POST QUANTUM CRYPTOGRAPHY MARKET BY PRODUCT

3.1 Product Summary

3.2 Global Post Quantum Cryptography Market by Type

- 3.2.1 Lattice-based Cryptography
- 3.2.2 Code-based Cryptography
- 3.2.3 Multivariate Cryptography
- 3.2.4 Hash-based Cryptography
- 3.2.5 Isogeny-Based Cryptography
- 3.2.6 Symmetric Key Quantum Resistance

4. GLOBAL POST QUANTUM CRYPTOGRAPHY MARKET BY REGION

4.1 Regional Summary

4.2 Global Post Quantum Cryptography Market - by Region

4.3 North America

4.3.1 Markets

4.3.1.1 Key Market Participants in North America

4.3.2 Application

4.3.3 Product

4.3.4 North America by Country

4.3.4.1 U.S.

4.3.4.1.1 Market by Application

4.3.4.1.2 Market by Product

4.3.4.2 Canada

4.4 Europe

4.4.1 Markets

4.4.1.1 Key Market Participants in Europe

4.4.2 Application

4.4.3 Product

4.4.4 Europe By Country

4.4.4.1 Germany

4.4.4.1.1 Market by Application

4.4.4.1.2 Market by Product

4.4.4.2 France

4.4.4.3 U.K.

4.4.4.4 Others

4.5 Asia-Pacific

4.5.1 Markets

4.5.1.1 Key Market Participants in Asia-Pacific

4.5.2 Application

4.5.3 Product

4.5.4 Asia-Pacific by Country

4.5.4.1 China

4.5.4.1.1 Market by Application

4.5.4.1.2 Market by Product

4.5.4.2 Japan

4.5.4.3 India

4.5.4.4 Others

4.6 Rest-of-the-World

4.6.1 Markets

4.6.1.1 Key Market Participants in Rest-of-the-World

4.6.2 Application

4.6.3 Product

4.6.4 Rest-of-the-World by Region

4.6.4.1 Middle East and Africa

4.6.4.2 Latin America

5. COMPANIES PROFILED

5.1 CryptoNext, inc.

5.2 ETAS

5.3 IBM

5.4 ID Quantique

5.5 Infineon Technologies AG

5.6 PQShield Ltd

5.7 Qrypt

5.8 QuintessenceLabs

5.9 SandboxAQ

5.10 Thales

5.11 Toshiba

5.12 Other Key Players

6. RESEARCH METHODOLOGY

I would like to order

Product name: Global Post Quantum Cryptography Market: Focus on End Use Industry, Application, Type, and Region

Product link: <https://marketpublishers.com/r/GAD43C7EA285EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GAD43C7EA285EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

