

Post-Quantum Cryptography Market Size, Share & Trends Analysis Report By Type (Lattice-Based Cryptography, Code-Based Cryptography), By Solution, By Services, By Enterprise Size, By Vertical, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Post-Quantum Cryptography Market Trends

The global post-quantum cryptography market size was estimated at USD 1.15 billion in 2024 and is expected to grow at a CAGR of 37.6% from 2025 to 2030. The post-quantum cryptography (PQC) market is influenced primarily by the growing awareness of the vulnerabilities in existing cryptographic systems posed by the advancement of quantum computing.

Organizations across sectors such as finance, healthcare, government, and telecommunications recognize the urgent need to protect sensitive data from quantum-enabled cyber threats. This heightened concern drives demand for quantum-resistant encryption methods, supported by ongoing research, development, and collaborations among technology providers and standards bodies such as NIST. Moreover, increasing cyberattack incidents and data breaches compel organizations to adopt stronger security measures to resist future quantum threats. Regulatory initiatives and government investments play a significant role by promoting standardization and mandating the use of quantum-safe cryptography in critical sectors such as defense, finance, and public safety.

The rising volume of sensitive data generated by IoT, 5G, and cloud computing also

necessitates scalable and resilient encryption solutions, making PQC an essential component of modern cybersecurity infrastructure. In addition, integrating PQC with emerging technologies such as edge computing and network slicing is vital to maintaining low latency and high security in next-generation networks. Furthermore, continuous technological advancements and strategic industry efforts are leading to market expansion, enhancing the practicality and performance of PQC solutions.

Innovations in quantum-resistant algorithms and hybrid cryptographic models enhance the practicality and performance of these solutions. Collaborations between private companies, governments, and research institutions accelerate the development and deployment of these technologies. For instance, in February 2024, the Linux Foundation launched the Post-Quantum Cryptography Alliance (PQCA), an open collaborative initiative to promote and advance the adoption of PQC. The alliance unites researchers, developers, and industry leaders to address the security challenges caused by quantum computing. As organizations prepare for the eventual impact of quantum computing on data security, integrating PQC into existing systems becomes critical, driving sustained investment and adoption across multiple industries worldwide.

Global Post-Quantum Cryptography Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2017 to 2030. For this study, Grand View Research has segmented the global post-quantum cryptography market report based on the type, solution, services, enterprise size, vertical, and region:

Type Outlook (Revenue, USD Million, 2017 - 2030)

Lattice-Based Cryptography

Code-Based Cryptography

Multivariate Cryptography

Hash-Based Cryptography

Others

Solution Outlook (Revenue, USD Million, 2017 - 2030)

Quantum-Resistant Algorithms

Quantum-Safe Cryptographic Libraries

Quantum-Safe Authentication Solutions

Quantum-Resistant Encryption Solutions

Quantum-Safe VPN, Email, Messaging

Quantum-Safe Blockchain Solutions

Quantum-Safe Hardware

Services Outlook (Revenue, USD Million, 2017 - 2030)

Design, Implementation, and Consulting

Migration Services

Quantum Risk Assessment

Enterprise Size Outlook (Revenue, USD Million, 2017 - 2030)

Small & Medium Enterprises (SMEs)

Large Enterprises

Vertical Outlook (Revenue, USD Million, 2017 - 2030)

BFSI

Retail & E-commerce

Healthcare

Government and Defense

IT & ITES

Others

Regional Outlook (Revenue, USD Million, 2017 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

Australia

South Korea

Latin America

Brazil

MEA

UAE

South Africa

KSA

Companies Mentioned

NXP Semiconductor

Thales

IDEMIA

Palo Alto Networks

DigiCert

Kloch Technologies, LLC

PQ Solutions Limited

PQShield Ltd

Entrust Corporation

IBM Corporation

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