

# Global Post Quantum Cryptography Chip Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Post Quantum Cryptography Chip market size is expected to reach \$ 495 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032).

In 2025, global Post Quantum Cryptography Chip production reached approximately 14.5 k units with an average global market price of around US\$9,500 per unit. Single-line annual production capacity averages 600 units with a gross margin of approximately 23-25%. The upstream of the Post Quantum Cryptography Chip includes categories such as quantum-resistant algorithms, secure crypto-processors, and specialized hardware, predominantly focused in the high-tech and cybersecurity sectors. Downstream applications are spread across healthcare (15%), finance (30%), national defense and military (20%), critical infrastructure (25%), and other fields (10%). The demand and business opportunities for Post Quantum Cryptography Chips are driven by the critical need to protect data security against future quantum attacks, with key opportunities lying in the development of new encryption standards and the integration of quantum-resistant technologies into existing systems.

A Post Quantum Cryptography Chip is engineered to safeguard digital communications against the potential threats posed by quantum computers, which are capable of breaking many of the cryptographic algorithms currently in use. This specialized chip incorporates quantum-resistant algorithms that have been rigorously tested and proven to withstand attacks from quantum computers, ensuring the security and integrity of sensitive data. By leveraging advanced cryptographic techniques, the chip provides a robust defense mechanism against quantum threats, making it a critical component for securing future digital infrastructure.

This report studies the global Post Quantum Cryptography Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Post

Quantum Cryptography Chip 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 Chip that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Post Quantum Cryptography Chip total production and demand, 2021-2032, (Units)

Global Post Quantum Cryptography Chip total production value, 2021-2032, (USD Million)

Global Post Quantum Cryptography Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Post Quantum Cryptography Chip consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Post Quantum Cryptography Chip domestic production, consumption, key domestic manufacturers and share

Global Post Quantum Cryptography Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Post Quantum Cryptography Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Post Quantum Cryptography Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Post Quantum Cryptography Chip market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, 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 Chip market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, 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 Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Post Quantum Cryptography Chip Market, Segmentation by Type:

MCU

SoC

#### Global Post Quantum Cryptography Chip Market, Segmentation by IC Core:

RISC-V Core

Arm Core

#### Global Post Quantum Cryptography Chip Market, Segmentation by Application:

Healthcare

Finance

Critical Infrastructure

Others

### **Companies Profiled:**

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 Answered:**

1. How big is the global Post Quantum Cryptography Chip market?
2. What is the demand of the global Post Quantum Cryptography Chip market?
3. What is the year over year growth of the global Post Quantum Cryptography Chip market?
4. What is the production and production value of the global Post Quantum Cryptography Chip market?
5. Who are the key producers in the global Post Quantum Cryptography Chip market?
6. What are the growth factors driving the market demand?

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