+357 96 030922
info@marketpublishers.com

Global Postquantum Cryptography Chip Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G88FB6F7D7B5EN.html
Date: December 2025
Pages: 123
Price: US$ 4,480.00 (Single User License)
ID: G88FB6F7D7B5EN

Abstracts

The global Postquantum Cryptography Chip market size is expected to reach $ 507 million by 2032, rising at a market growth of 19.6% CAGR during the forecast period (2026-2032).
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.
This report studies the global Postquantum Cryptography Chip production, demand, key manufacturers, and key regions.

+357 96 030922
info@marketpublishers.com

This report is a detailed and comprehensive analysis of the world market for Postquantum 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 Postquantum Cryptography Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Postquantum 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 Postquantum 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.

+357 96 030922
info@marketpublishers.com

Global Postquantum Cryptography Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Postquantum Cryptography Chip Market, Segmentation by Type:

MCU

SoC

Global Postquantum Cryptography Chip Market, Segmentation by Quantum Resistant Properties:

PQC Chip

Others

Global Postquantum Cryptography Chip Market, Segmentation by Application:

Healthcare

Finance

+357 96 030922
info@marketpublishers.com

Military Affairs

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 Postquantum Cryptography Chip market?
2. What is the demand of the global Postquantum Cryptography Chip market?
3. What is the year over year growth of the global Postquantum Cryptography Chip market?
4. What is the production and production value of the global Postquantum Cryptography

+357 96 030922
info@marketpublishers.com

Chip market?
5. Who are the key producers in the global Postquantum Cryptography Chip market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

Table 136. Postquantum Cryptography Chip Typical Distributors

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Postquantum Cryptography Chip Supply, Demand and Key Producers, 2026-2032
Product link: https://marketpublishers.com/r/G88FB6F7D7B5EN.html
Price: US$ 4,480.00 (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/G88FB6F7D7B5EN.html