

# Global Quantum Cryptographic Card Market Growth 2026-2032

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## Abstracts

The global Quantum Cryptographic Card market size is predicted to grow from US\$ 374 million in 2025 to US\$ 1013 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

Quantum cryptographic cards are hardware security modules based on quantum cryptography (primarily quantum key distribution, QKD) technology. They typically exist in the form of smart cards, encryption cards, or boards, and are used in information systems to achieve high-level key generation, storage, and encryption/decryption. Through the physical properties of quantum states being uncopyable and measurements inevitably causing perturbations, they ensure that keys are detectable and eavesdroppable during distribution and use, thus theoretically achieving 'information-theoretical security.' They are commonly deployed in government, finance, power, military, and core communication networks as a quantum security enhancement layer for traditional cryptographic systems (such as national cryptographic standards and PKI), used to combat the risk of future quantum computing breaking classical cryptographic algorithms. In 2025, sales reached 128,000 units, with an average price of \$2,985, a capacity utilization rate of 92%, and a gross profit margin of 64%.

United States market for Quantum Cryptographic Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Quantum Cryptographic Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Quantum Cryptographic Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Quantum Cryptographic Card players cover ID Quantique, Toshiba, Quantum Xchange, Hefei Guizhen Chip Technology Co., Ltd., Shudun Information Technology Co., Ltd., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Quantum Cryptographic Card Industry Forecast” looks at past sales and reviews total world Quantum Cryptographic Card sales in 2025, providing a comprehensive analysis by region and market sector of projected Quantum Cryptographic Card sales for 2026 through 2032. With Quantum Cryptographic Card sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Quantum Cryptographic Card industry.

This Insight Report provides a comprehensive analysis of the global Quantum Cryptographic Card landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Quantum Cryptographic Card portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Quantum Cryptographic Card market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Quantum Cryptographic Card and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Quantum Cryptographic Card.

This report presents a comprehensive overview, market shares, and growth opportunities of Quantum Cryptographic Card market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Quantum Key Distribution Card

Quantum Random Number Generator Card

## Quantum-enhanced Cryptographic Card

### Segmentation by Hardware Form Factor:

Server Cryptographic Card

Embedded Quantum Crypto Module

### Segmentation by System Integration Level:

Standalone Quantum Crypto Card

Quantum-secure Encryption Card

### Segmentation by Application:

Government & Defense

Financial & Critical Infrastructure

Commercial & Research

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ID Quantique

Toshiba

Quantum Xchange

Hefei Guizhen Chip Technology Co., Ltd.

Shudun Information Technology Co., Ltd.

C\*Core Technology Co., Ltd.

Hangzhou Post Quantum Cryptography Technology Co., Ltd.

Shenzhen Kedun Quantum Information Technology Co., Ltd.

Nanjing Shouchuan Xin'an Technology Co., Ltd.

QuintessenceLabs

MagiQ Technologies

QNu Labs

LuxQuanta

KETS Quantum Security

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Quantum Cryptographic Card market?

What factors are driving Quantum Cryptographic Card market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Quantum Cryptographic Card market opportunities vary by end market size?

How does Quantum Cryptographic Card break out by Type, by Application?

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