

# Global Quantum Cryptographic Card Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Quantum Cryptographic Card market size was valued at US\$ 393 million in 2025 and is forecast to a readjusted size of US\$ 1016 million by 2032 with a CAGR of 14.6% during review period.

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%.

This report is a detailed and comprehensive analysis for global Quantum Cryptographic Card market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global Quantum Cryptographic Card market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Cryptographic Card market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Cryptographic Card market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Cryptographic Card market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Quantum Cryptographic Card

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Quantum Cryptographic Card market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Quantum Cryptographic Card market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts

for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Quantum Key Distribution Card

Quantum Random Number Generator Card

Quantum-enhanced Cryptographic Card

#### Market segment by Hardware Form Factor

Server Cryptographic Card

Embedded Quantum Crypto Module

#### Market segment by System Integration Level

Standalone Quantum Crypto Card

Quantum-secure Encryption Card

#### Market segment by Application

Government & Defense

Financial & Critical Infrastructure

Commercial & Research

#### Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Quantum Cryptographic Card product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quantum Cryptographic Card, with price, sales quantity, revenue, and global market share of Quantum Cryptographic Card from 2021 to 2026.

Chapter 3, the Quantum Cryptographic Card competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quantum Cryptographic Card breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Quantum Cryptographic Card market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Quantum Cryptographic Card.

Chapter 14 and 15, to describe Quantum Cryptographic Card sales channel, distributors, customers, research findings and conclusion.

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