

Global Quantum Encryption 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 Encryption 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.

A quantum encryption card is a hardware encryption card that enhances traditional cryptographic systems with quantum physics security mechanisms. It is typically deployed as a board or module in servers, encryption machines, or network devices to perform key generation, management, and data encryption/decryption. Its core does not rely entirely on quantum computing; instead, it uses quantum random numbers (QRNG) or quantum key distribution (QKD) to provide a high-security key source. This is combined with symmetric and asymmetric cryptographic algorithms (such as AES and Chinese national cryptographic algorithms) for engineering implementation, thus theoretically possessing stronger resistance to eavesdropping and future quantum computing attacks. It is primarily used in high-security scenarios such as government affairs, finance, energy, and critical infrastructure. 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 Encryption 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 Encryption Card market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Encryption 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 Encryption 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 Encryption 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 Encryption 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 Encryption 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 Encryption 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 Encryption Card product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Quantum Encryption 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 Encryption 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 Encryption Card.

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

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