

Global Quantum Encryption Card Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quantum Encryption Card market size is expected to reach \$ 1016 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

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 studies the global Quantum Encryption Card production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quantum Encryption Card 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 Quantum Encryption Card that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quantum Encryption Card total production and demand, 2021-2032, (K Units)

Global Quantum Encryption Card total production value, 2021-2032, (USD Million)

Global Quantum Encryption Card production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Quantum Encryption Card consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Quantum Encryption Card domestic production, consumption, key domestic manufacturers and share

Global Quantum Encryption Card production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Quantum Encryption Card production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Quantum Encryption Card production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Quantum Encryption Card 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Quantum Encryption Card market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Quantum Encryption Card Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Encryption Card Market, Segmentation by Type:

Quantum Key Distribution Card

Quantum Random Number Generator Card

Quantum-enhanced Cryptographic Card

Global Quantum Encryption Card Market, Segmentation by Hardware Form Factor:

Server Cryptographic Card

Embedded Quantum Crypto Module

Global Quantum Encryption Card Market, Segmentation by System Integration Level:

Standalone Quantum Crypto Card

Quantum-secure Encryption Card

Global Quantum Encryption Card Market, Segmentation by Application:

Government & Defense

Financial & Critical Infrastructure

Commercial & Research

Companies Profiled:

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 Answered:

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

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