

Global Quantum Random Number Cryptographic Card Market Growth 2026-2032

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Abstracts

The global Quantum Random Number Cryptographic Card market size is predicted to grow from US\$ 159 million in 2025 to US\$ 228 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

A Quantum Random Number Cryptographic Card is a hardware security module designed for servers, communication equipment, industrial control systems, and security gateways. It is usually deployed in the form of a PCIe card, embedded board, or security module to provide high-quality random number generation, key generation, data encryption and decryption, identity authentication, and secure storage. The product typically integrates a quantum random number generator, cryptographic algorithm chips, security control units, and interface modules to enhance the randomness, security, and attack resistance of conventional cryptographic systems. Compared with a complete quantum key distribution system, a Quantum Random Number Cryptographic Card is more focused on endpoint-side or device-side security enhancement and can be embedded into existing information security, cybersecurity, and data center infrastructure. Under a narrow market scope, Quantum Random Number Cryptographic Cards are typically priced at around USD 5,000?8,000 per card, with global annual sales of about 10,000?30,000 units.

The upstream supply chain of Quantum Random Number Cryptographic Cards mainly includes quantum random number chips or modules, security chips, FPGAs or dedicated cryptographic processors, optoelectronic components, memory, PCBs, interface connectors, power management components, firmware, and cryptographic algorithm software. Among these, the quantum entropy source, cryptographic algorithm implementation, and security certification capability are the key factors determining product performance and differentiation. Midstream companies are responsible for card

design, hardware integration, cryptographic algorithm adaptation, security firmware development, system testing, and industry certification, while also providing server adaptation, key management platform integration, and security system integration according to customer requirements. Downstream applications are concentrated in high-security scenarios such as government, finance, telecom, defense, data centers, energy and power, industrial internet, and cloud security, where customers focus more on security level, stability, compatibility, certification status, and integration with existing cryptographic infrastructure.

United States market for Quantum Random Number 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 Random Number 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 Random Number 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 Random Number Cryptographic Card players cover ID Quantique, QuantumCTek, Toshiba Digital Solutions, NEC, Quside Technologies, 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 Random Number Cryptographic Card Industry Forecast" looks at past sales and reviews total world Quantum Random Number Cryptographic Card sales in 2025, providing a comprehensive analysis by region and market sector of projected Quantum Random Number Cryptographic Card sales for 2026 through 2032. With Quantum Random Number 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 Random Number Cryptographic Card industry.

This Insight Report provides a comprehensive analysis of the global Quantum Random Number 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 Random Number 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 Random Number Cryptographic Card market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Quantum Random Number 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 Random Number Cryptographic Card.

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

Segmentation by Type:

Quantum Random Number Generator Card

Quantum Random Number Cryptographic Card

Quantum-Enhanced Cryptographic Card

Quantum-Resistant / Post-Quantum Cryptographic Card

Segmentation by Hardware Configuration:

PCIe Quantum Random Number Cryptographic Card

Board-level QRNG Card

USB / External QRNG Module

Chip-level QRNG Module

Segmentation by Random Number Generation Rate:

Low-speed QRNG Cryptographic Card

Medium-speed QRNG Cryptographic Card

High-speed QRNG Cryptographic Card

Ultra-high-speed QRNG Cryptographic Card

Segmentation by Application:

Government, Defense and Critical Infrastructure

Banking, Payment and Data Security

Telecom Operators and Quantum-secure Communication Networks

Cloud, Data Center and Server Security

Industrial Internet, Energy, Power and IoT Terminals

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

QuantumCTek

Toshiba Digital Solutions

NEC

Quside Technologies

QuintessenceLabs

Quantum Dice

KETS Quantum Security

QNu Labs

Qrypt

Quantum Computing Inc.

Suzhou China-Core Technology

Hefei GZ iChip Technology

Shenzhen KD Quantum Information Technology

QuDoor Quantum Technologies

TuringQ

Shanghai XT Quantum Technology

Key Questions Addressed in this Report

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

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

Which technologies are poised for the fastest growth by market and region?
How do Quantum Random Number Cryptographic Card market opportunities vary by end market size?
How does Quantum Random Number Cryptographic Card break out by Type, by Application?

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