

Global High-speed Quantum Random Number Generator 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 High-speed Quantum Random Number Generator Card market size was valued at US\$ 67.91 million in 2025 and is forecast to a readjusted size of US\$ 307 million by 2032 with a CAGR of 24.0% during review period.

In 2025, global sales of High-speed Quantum Random Number Generator Card reached approximately 20 k units, with an average market price of about USD 3300 unit, an annual production capacity of roughly 23 k units, and an industry-average gross margin of approximately 28%.

A High-speed Quantum Random Number Generator Card is a hardware device or hardware entropy-source system that generates unpredictable random bit streams by exploiting the intrinsic randomness of quantum physical processes. This study focuses on commercially supplied or integrable QRNG chips, quantum entropy-source chips, modules, USB/PCIe cards, rack-mounted or server-type devices, and OEM hardware designs that can be embedded into third-party security, communication, computing or industrial systems. A typical QRNG consists of a quantum entropy source, optical or semiconductor detection components, analog sampling circuitry, randomness extraction or post-processing logic, health-test mechanisms, interface protocols and supporting software drivers. Common technology routes include photon arrival-time measurement, laser phase noise, quantum vacuum fluctuation, shot noise, electron tunneling, avalanche breakdown and radioactive decay. Key performance parameters include random bit generation rate, entropy-source assurance, randomness-test compliance, interface type, form factor, power consumption, temperature stability, certification status and ease of system integration. QRNGs are mainly used in cryptographic key

generation, quantum key distribution, hardware security modules, VPNs, cloud security infrastructure, IoT security, automotive cybersecurity, gaming and lottery systems, Monte Carlo simulation, statistical sampling and other applications requiring high-quality unpredictable randomness.

This report is a detailed and comprehensive analysis for global High-speed Quantum Random Number Generator 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 High-speed Quantum Random Number Generator Card market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global High-speed Quantum Random Number Generator Card market shares of main players, shipments in revenue (\$ Million), sales quantity (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 High-speed Quantum Random Number Generator 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 High-speed Quantum Random Number Generator 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 SA, QuantumCTek, QuintessenceLabs, Quside Technologies, EYL Inc., QNu Labs, Anhui Qasky Quantum, Zhejiang Quantum Technologies, Shanghai Xuntai Quantum, Hefei Guizhen Chip, etc.

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

Market Segmentation

High-speed Quantum Random Number Generator 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

QRNG Chip

QRNG Module

Market segment by Interface

USB Interface

PCIe Interface

Other

Market segment by Application

Key Generation

Hardware Security Modules

Other

Major players covered

ID Quantique SA

QuantumCTek

QuintessenceLabs

Quside Technologies

EYL Inc.

QNu Labs

Anhui Qasky Quantum

Zhejiang Quantum Technologies

Shanghai Xuntai Quantum

Hefei Guizhen Chip

S-Fifteen Instruments

Micro Photon Devices

Crypta Labs

Quantum Dice

ThinkQuantum

Quantum Computing Inc.

Taqbit Labs

Elmos Semiconductor

TuringQ

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 High-speed Quantum Random Number Generator Card product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-speed Quantum Random Number Generator Card, with price, sales quantity, revenue, and global market share of High-speed Quantum Random Number Generator Card from 2021 to 2026.

Chapter 3, the High-speed Quantum Random Number Generator Card competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-speed Quantum Random Number Generator 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 High-speed Quantum Random Number Generator 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 High-speed Quantum Random Number Generator Card.

Chapter 14 and 15, to describe High-speed Quantum Random Number Generator Card sales channel, distributors, customers, research findings and conclusion.

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