

# Global High-speed Quantum Random Number Generator Card Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High-speed Quantum Random Number Generator Card market size is expected to reach \$ 307 million by 2032, rising at a market growth of 24.0% CAGR during the forecast period (2026-2032).

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 studies the global High-speed Quantum Random Number Generator Card production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-speed Quantum Random Number Generator 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 High-speed Quantum Random Number Generator Card that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-speed Quantum Random Number Generator Card total production and demand, 2021-2032, (Units)

Global High-speed Quantum Random Number Generator Card total production value, 2021-2032, (USD Million)

Global High-speed Quantum Random Number Generator Card production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global High-speed Quantum Random Number Generator Card consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: High-speed Quantum Random Number Generator Card domestic production, consumption, key domestic manufacturers and share

Global High-speed Quantum Random Number Generator Card production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global High-speed Quantum Random Number Generator Card production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global High-speed Quantum Random Number Generator Card production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global High-speed Quantum Random Number Generator 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-speed Quantum Random Number Generator Card market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 High-speed Quantum Random Number Generator Card Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-speed Quantum Random Number Generator Card Market, Segmentation by Type:

QRNG Chip

QRNG Module

Global High-speed Quantum Random Number Generator Card Market, Segmentation by Interface:

USB Interface

PCIe Interface

Other

Global High-speed Quantum Random Number Generator Card Market, Segmentation by Application:

Key Generation

Hardware Security Modules

Other

Companies Profiled:

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

#### Key Questions Answered:

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

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