

Global Quantum Random Number Generator Market Growth 2026-2032

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Abstracts

The global Quantum Random Number Generator market size is predicted to grow from US\$ 64.56 million in 2025 to US\$ 314 million in 2032; it is expected to grow at a CAGR of 25.5% from 2026 to 2032.

In 2025, global sales of Quantum Random Number Generator 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 Quantum Random Number Generator (QRNG) 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.

United States market for Quantum Random Number Generator 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 Generator 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 Generator 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 Generator players cover ID Quantique SA, QuantumCTek, QuintessenceLabs, Quside Technologies, EYL Inc., 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 Generator Industry Forecast" looks at past sales and reviews total world Quantum Random Number Generator sales in 2025, providing a comprehensive analysis by region and market sector of projected Quantum Random Number Generator sales for 2026 through 2032. With Quantum Random Number Generator 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 Generator industry.

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

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

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

Segmentation by Type:

QRNG Chip

QRNG Module

Segmentation by Interface:

USB Interface

PCIe Interface

Other

Segmentation by Application:

Key Generation

Hardware Security Modules

Other

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 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 Addressed in this Report

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

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

Which technologies are poised for the fastest growth by market and region?

How do Quantum Random Number Generator market opportunities vary by end market size?

How does Quantum Random Number Generator break out by Type, by Application?

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