

Global Quantum Random Source Chip Market Growth 2026-2032

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Abstracts

The global Quantum Random Source Chip market size is predicted to grow from US\$ 243 million in 2025 to US\$ 1021 million in 2032; it is expected to grow at a CAGR of 22.8% from 2026 to 2032.

A quantum random source chip is a core security device that utilizes the intrinsic uncertainty of quantum physics to generate true random entropy at the chip level. Its working principle is typically based on unpredictable quantum processes such as photon detection, vacuum fluctuations, phase noise, or quantum tunneling. Through high-speed detection, electrical signal conversion, and entropy extraction circuits, it continuously outputs a high-entropy, non-replicable random bit stream. As the underlying hardware foundation of quantum random number generators and quantum cryptography systems, the quantum random source chip determines the upper limit of random number security, output rate, and integrability, and is widely used in cryptography systems, quantum communication, data center encryption, financial security, and critical infrastructure. In 2025, sales reached 29,000 units, with an average price of \$8,560 per unit, a capacity utilization rate of 95%, and a gross profit margin of 51%.

United States market for Quantum Random Source Chip 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 Source Chip 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 Source Chip 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 Source Chip players cover Xanadu, PsiQuantum, TuringQ Co.,Ltd., Hefei Guizhen Chip Technology Co., Ltd., Beijing QBoson Quantum Technology Co.,Ltd., 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 Source Chip Industry Forecast” looks at past sales and reviews total world Quantum Random Source Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Quantum Random Source Chip sales for 2026 through 2032. With Quantum Random Source Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Quantum Random Source Chip industry.

This Insight Report provides a comprehensive analysis of the global Quantum Random Source Chip 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 Source Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Quantum Random Source Chip market.

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

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

Segmentation by Type:

Vacuum-fluctuation Quantum Entropy Source

Photon Shot-Noise Quantum Entropy Source

Quantum Phase-Noise Entropy Source

Quantum Tunneling Entropy Source

Segmentation by Position In the Value Chain:

Photonic Quantum Computer System Providers

Photonic Quantum Chip / Processor Developers

Segmentation by Application Focus:

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Segmentation by Application:

Quantum Key Distribution

Quantum Direct Communication

Financial Quantification

Artificial Intelligence

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.

Xanadu

PsiQuantum

TuringQ Co.,Ltd.

Hefei Guizhen Chip Technology Co., Ltd.

Beijing QBoson Quantum Technology Co.,Ltd.

QuiX Quantum

Quandela

Photonic

C*Core Technology Co., Ltd.

Anhui Qasky Quantum Technology Co., Ltd.

QuantumCTek Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Quantum Random Source Chip market?

What factors are driving Quantum Random Source Chip market growth, globally and by region?

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

How do Quantum Random Source Chip market opportunities vary by end market size?

How does Quantum Random Source Chip break out by Type, by Application?

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