

# Global Quantum Random Source Chip Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Quantum Random Source Chip market size is expected to reach \$ 1005 million by 2032, rising at a market growth of 21.5% CAGR during the forecast period (2026-2032).

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%.

This report studies the global Quantum Random Source Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quantum Random Source Chip 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 Quantum Random Source Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quantum Random Source Chip total production and demand, 2021-2032, (K Units)

Global Quantum Random Source Chip total production value, 2021-2032, (USD Million)

Global Quantum Random Source Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Quantum Random Source Chip consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Quantum Random Source Chip domestic production, consumption, key domestic manufacturers and share

Global Quantum Random Source Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Quantum Random Source Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Quantum Random Source Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Quantum Random Source Chip 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 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., 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 Quantum Random Source Chip market

### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Quantum Random Source Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Quantum Random Source Chip Market, Segmentation by Type:

Vacuum-fluctuation Quantum Entropy Source

Photon Shot-Noise Quantum Entropy Source

Quantum Phase-Noise Entropy Source

Quantum Tunneling Entropy Source

Global Quantum Random Source Chip Market, Segmentation by Position In the Value Chain:

Photonic Quantum Computer System Providers

Photonic Quantum Chip / Processor Developers

Global Quantum Random Source Chip Market, Segmentation by Application Focus:

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Global Quantum Random Source Chip Market, Segmentation by Application:

Quantum Key Distribution

Quantum Direct Communication

Financial Quantification

Artificial Intelligence

Companies Profiled:

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 Answered:

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

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