

Global Quantum Random Source Chip 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 Quantum Random Source Chip market size was valued at US\$ 255 million in 2025 and is forecast to a readjusted size of US\$ 1005 million by 2032 with a CAGR of 21.5% during review period.

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 is a detailed and comprehensive analysis for global Quantum Random Source Chip 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 Quantum Random Source Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Random Source Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Random Source Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Quantum Random Source Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Quantum Random Source Chip

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 Quantum Random Source Chip 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 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.

Market Segmentation

Quantum Random Source Chip 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

Vacuum-fluctuation Quantum Entropy Source

Photon Shot-Noise Quantum Entropy Source

Quantum Phase-Noise Entropy Source

Quantum Tunneling Entropy Source

Market segment by Position In the Value Chain

Photonic Quantum Computer System Providers

Photonic Quantum Chip / Processor Developers

Market segment by Application Focus

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Market segment by Application

Quantum Key Distribution

Quantum Direct Communication

Financial Quantification

Artificial Intelligence

Major players covered

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.

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 Quantum Random Source Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quantum Random Source Chip, with price, sales quantity, revenue, and global market share of Quantum Random Source Chip from 2021 to 2026.

Chapter 3, the Quantum Random Source Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quantum Random Source Chip 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 Quantum Random Source Chip 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 Quantum Random Source Chip.

Chapter 14 and 15, to describe Quantum Random Source Chip sales channel, distributors, customers, research findings and conclusion.

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