

# Global Quantum Cryptography Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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# **Abstracts**

According to our (Global Info Research) latest study, the global Quantum Cryptography market size was valued at USD 3802.1 million in 2023 and is forecast to a readjusted size of USD 15640 million by 2030 with a CAGR of 22.4% during review period.

This report studies the Quantum Cryptography market, Quantum cryptography uses physics instead of mathematics to encode messages, which provides greater security.

The genesis of QKD (Quantum Key Distribution) traces back to the late 1960s, when Stephen Wiesner first proposed the idea of encoding information on photons to securely transfer messages. In 1984, the physicist Charles Bennett and cryptographer Gilles Brassard worked together to mature this idea by introducing the first QKD protocol, known as "BB84". Five years later, they built the first QKD prototype system which was said to be "secure against any eavesdropper who happened to be deaf" as it made audible noises while encoding crypto key onto single photons.

From its relatively humble beginnings, QKD has gained global interest as a unique cybersecurity solution with active research groups across North America, Europe, Australia, and Asia.

The major players in global quantum cryptography include ID Quantique, Sequrenet, Quintessence Labs, Magiq Technologies, Toshiba, QuantumCTek and Qasky, etc.

The Global Info Research report includes an overview of the development of the Quantum Cryptography industry chain, the market status of Financial (Table Pros, Table Cons), Government (Table Pros, Table Cons), and key enterprises in developed and



developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Quantum Cryptography.

Regionally, the report analyzes the Quantum Cryptography markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Quantum Cryptography market, with robust domestic demand, supportive policies, and a strong manufacturing base.

# Key Features:

The report presents comprehensive understanding of the Quantum Cryptography market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Quantum Cryptography industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Table Pros, Table Cons).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Quantum Cryptography market.

Regional Analysis: The report involves examining the Quantum Cryptography market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Quantum Cryptography market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Quantum Cryptography:



Company Analysis: Report covers individual Quantum Cryptography players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Quantum Cryptography This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Financial, Government).

Technology Analysis: Report covers specific technologies relevant to Quantum Cryptography. It assesses the current state, advancements, and potential future developments in Quantum Cryptography areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Quantum Cryptography market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Quantum Cryptography market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Table Pros

**Table Cons** 

Market segment by Application

Financial

Government



| Military & Defense  |
|---|
| Others  |
| Market segment by players, this report covers   |
| ID Quantique  |
| SeQureNet   |
| Quintessence Labs   |
| MagiQ Technologies  |
| Toshiba   |
| QuantumCTek   |
| Qasky   |
| Market segment by regions, regional analysis covers   |
| North America (United States, Canada, and Mexico)   |
| Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)                                     |
| Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific) |
| South America (Brazil, Argentina and Rest of South America)   |
| Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa                       |
|   |

The content of the study subjects, includes a total of 13 chapters:



Chapter 1, to describe Quantum Cryptography product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Quantum Cryptography, with revenue, gross margin and global market share of Quantum Cryptography from 2019 to 2024.

Chapter 3, the Quantum Cryptography competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024.and Quantum Cryptography market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Quantum Cryptography.

Chapter 13, to describe Quantum Cryptography research findings and conclusion.



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