

Global Quantum Key Distribution (QKD) Device Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Quantum Key Distribution (QKD) Device market size was valued at US\$ 1557 million in 2024 and is forecast to a readjusted size of USD 11890 million by 2031 with a CAGR of 34.1% during review period.

Quantum Key Distribution (QKD) 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.

Technological progress and innovation

With the deepening of research and technology accumulation, the technical maturity of QKD system will continue to improve, including the preparation, transmission, measurement of quantum states, key generation and management and other aspects of technology will be further optimized.

Researchers will continue to explore new QKD protocols and methods to meet the

challenges that may be encountered in practical applications.

For example, research on new protocols such as measuring device-independent quantum key distribution (MDI-QKD) protocol and reference frame independent Quantum key distribution (RFI-QKD) protocol will help to improve the security and practicability of QKD systems.

Market growth and application expansion

With the increasing global demand for information security, the size of the QKD market will continue to expand.

It is expected that the QKD market will maintain rapid growth in the next few years, especially in the government, military, finance and other key areas of application will be more extensive.

The application scenarios of QKD will continue to expand, extending from the traditional communication field to a wider range of fields.

For example, in emerging areas such as cloud computing, the Internet of Things, and intelligent manufacturing, QKD will play an important role in providing secure and reliable communication guarantees for these areas.

Policy support and industrial development

Governments will increase their support for QKD and other quantum information technology fields, and promote the development of the QKD industry through policy guidance and capital investment.

For example, the Chinese government has listed quantum information technology as a key development area and set up major scientific and technological projects to promote the research and development and application of technologies such as QKD.

With the continuous development of the QKD industry, the related industry chain will gradually improve, including the research and development and production of key components such as quantum chips, quantum communication equipment, and quantum measurement equipment will be strengthened.

At the same time, the collaboration of all parties will also promote the rapid development

and application of QKD technology.

Challenges and opportunities coexist

Although QKD technology has made remarkable progress, it still faces some technical challenges, such as the transmission distance of quantum states, key generation rate, etc.

These challenges require continuous breakthroughs and innovations by researchers to promote the further development of QKD technology.

With the continuous improvement of global informatization and the increasing demand for network security, the QKD market will usher in huge development opportunities.

At the same time, with the continuous maturity of technology and the reduction of costs, QKD will gradually become popular, providing safe and reliable communication protection for more fields.

This report is a detailed and comprehensive analysis for global Quantum Key Distribution (QKD) Device market. Both quantitative and qualitative analyses are presented by company, 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 Key Distribution (QKD) Device market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Quantum Key Distribution (QKD) Device market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Quantum Key Distribution (QKD) Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Quantum Key Distribution (QKD) Device market shares of main players, in revenue (\$ Million), 2020-2025

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 Key Distribution (QKD) Device
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Quantum Key Distribution (QKD) Device market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ID Quantique, Quintessence Labs, MagiQ Technologies, Toshiba, QuantumCTek, Qasky, Qudoor, QTI srl, Coherentia, ThinkQuantum, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Quantum Key Distribution (QKD) Device market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

First-generation QKD

Second-generation QKD

Market segment by Application

Financial

Government

Military & Defense

Others

Market segment by players, this report covers

ID Quantique

Quintessence Labs

MagiQ Technologies

Toshiba

QuantumCTek

Qasky

Qudoor

QTI srl

Cohaerentia

ThinkQuantum

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 and Rest of Asia-Pacific)

South America (Brazil, 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 Key Distribution (QKD) Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Quantum Key Distribution (QKD) Device, with revenue, gross margin, and global market share of Quantum Key Distribution (QKD) Device from 2020 to 2025.

Chapter 3, the Quantum Key Distribution (QKD) Device 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 by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

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 2020 to 2025. and Quantum Key Distribution (QKD) Device market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Quantum Key Distribution (QKD) Device.

Chapter 13, to describe Quantum Key Distribution (QKD) Device research findings and conclusion.

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