

# **Quantum Key Distribution Market by Offering (Solution and Services), Type (Multiplexed QKD Systems and Long-Distance QKD Systems), Application (Network Security, Data Encryption, Secure Communication) - Global Forecast to 2030**

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## **Abstracts**

The global Quantum Key Distribution (QKD) market size is projected to grow from USD 0.48 billion in 2024 to USD 2.63 billion by 2030 at a Compound Annual Growth Rate (CAGR) of 32.6% during the forecast period. A key driver of the QKD market is the growing deployment of quantum communication in satellite-based networks. As space-based communication networks expand, the need for highly secure transmission of data between satellites and ground stations is becoming critical. QKD's ability to offer unbreakable encryption makes it ideal for securing satellite communications, especially for defense and national security applications. This development is opening new avenues for QKD adoption, particularly in space and aerospace sectors, driving market growth.

'By vertical, the healthcare segment accounts for the highest CAGR during the forecast period.'

The healthcare industry is expected to witness a high growth rate in the QKD market. This growth is driven by the increasing need for secure communication to protect sensitive medical data, the rising adoption of telemedicine, and the growing integration of advanced technologies in healthcare systems. The sector's focus on safeguarding patient privacy and ensuring data integrity in an era of cyber threats further accelerates the adoption of QKD solutions.

'By region, the North America accounts for a larger market share.'

North America is anticipated to hold a significant share of the QKD market due to substantial investments in quantum research, robust government backing, and the presence of leading tech firms. The region's emphasis on building secure communication networks for commercial, scientific, and space applications, coupled with collaborations between quantum technology providers, is driving QKD adoption. For example, Toshiba America has partnered with Safe Quantum in the space of quantum key distribution (QKD). Furthermore, initiatives like the U.S. National Quantum Initiative and partnerships with the aerospace and telecom sectors reinforce North America's leadership in the QKD market.

### Breakdown of primaries

The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: C-level – 45%, Directors – 35%, and Managers – 20%

By Region: North America – 55%, Europe – 25%, Asia Pacific – 15%, RoW – 5%

The key players in the QKD market include are Toshiba (Japan), ID Quantique (Switzerland), Quintessence Labs (Australia), QuantumCtek (China), HEQA Security (Israel), MagiQ Technologies (US), LuxQuanta (Spain), Kloch (US), S-Fifteen Instruments (Singapore), Telsy (Italy), and others.

The study includes an in-depth competitive analysis of the key players in the QKD market, their company profiles, recent developments, and key market strategies.

### Research Coverage

The report segments the QKD market and forecasts its size by Offering [Solution (Discrete-Variable QKD and Continuous-Variable QKD) and Services (Professional Services (Consulting & Training, Integration & Deployment, and Support & Maintenance) and Managed Services)], Type (Multiplexed QKD Systems and Long-Distance QKD Systems), Transmission Medium (Fiber-Optic Cable Transmission and Satellite-Based Transmission), Application (Network Security, Data Encryption, Secure

Communication, and other applications), Organization Size (Large Enterprises and SMEs), Vertical (BFSI, Government & Defense, IT & ITeS, Healthcare, Energy and Utilities, Automotive, and Other Verticals), and Region (North America, Europe, Asia Pacific, Middle East and Africa, and Latin America).

The study also includes an in-depth competitive analysis of the market's key players, their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

### Key Benefits of Buying the Report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall QKD market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (rising harvest now, decrypt later attacks, increasing investments in R&D, advancements in quantum communication infrastructure, and advancements in quantum computing), restraints (high implementation costs and lack of standardization), opportunities (expansion into 5G and IoT network and satellite-based quantum communication), and challenges (scalability issues and technological complexity)

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the QKD market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the QKD market across varied regions.

**Market Diversification:** Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the QKD market.

**Competitive Assessment:** In-depth assessment of market shares, growth

strategies, and service offerings of leading players such as Toshiba (Japan), ID Quantique (Switzerland), QuintessenceLabs (Australia), MagiQ Technologies (US), QuantumCTek (China), LuxQuanta (Spain), Kloch (US), HEQA Security (Israel), QNu Labs (India), PacketLight Networks (Israel), KETS Quantum Security (UK), QEYnet (Canada), ThinkQuantum (Italy), KEEQuant (Germany), SpeQtral (Singapore), Qudoor (China), QTI (Italy), S-Fifteen Instruments (Singapore), C-DOT (India), Qbitonix Technologies (India), Telsy (Italy), Quantum Blockchains (Poland), LevelQuantum (Italy), Quantum Technology Laboratories (Austria), Quantum Industries (Austria), and Quantum Optic Jena (Germany) among others, in the QKD market strategies.

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