

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

<https://marketpublishers.com/r/G1F7895BF494EN.html>

Date: January 2024

Pages: 145

Price: US\$ 3,480.00 (Single User License)

ID: G1F7895BF494EN

## Abstracts

According to our (Global Info Research) latest study, the global Quantum Communication market size was valued at USD 1119.8 million in 2023 and is forecast to a readjusted size of USD 5219.5 million by 2030 with a CAGR of 24.6% during review period.

Quantum communication is a new type of communication method that uses quantum superposition and entanglement effects to transmit information. Based on the three principles of uncertainty, measurement collapse and non-cloning in quantum mechanics, it provides an absolute security guarantee that cannot be eavesdropped and calculated. The main division is quantum key distribution and quantum teleportation.

The key manufacturers of Quantum Communication is MagiQ Technologies, ID Quantique, QuantumCTek, Toshiba, CAS Quantum Network, Crypta Labs, NEC, Qubitekk and QuintessenceLabs, among which the top two manufacturers account for nearly 40% of the market share, and the largest manufacturer is MagiQ Technologies. Global quantum communication is mainly distributed in North America, Europe, Asia-Pacific, Latin America, the Middle East and Africa, among which the top three regions account for nearly 95% of the market share. At present, the Asia-Pacific region has the largest market share, nearly 40%, followed by North America and Europe. As far as products are concerned, they can be divided into hardware, software and services, with a growth rate of about 20%. At present, the market share of hardware is close to 50%. In terms of application, government is the largest application field, with a current market share of nearly 30%, followed by defense, military and telecommunication.

The Global Info Research report includes an overview of the development of the Quantum Communication industry chain, the market status of Government (Hardware, Software), Military and Defense (Hardware, Software), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Quantum Communication.

Regionally, the report analyzes the Quantum Communication 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 Communication market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Quantum Communication 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 Communication 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., Hardware, Software).

**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 Communication market.

**Regional Analysis:** The report involves examining the Quantum Communication 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 Communication 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 Communication:

**Company Analysis:** Report covers individual Quantum Communication 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 Communication. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Government, Military and Defense).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Quantum Communication 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 Communication 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

Hardware

Software

Service

## Market segment by Application

Government

Military and Defense

Telecommunication

BFSI

Enterprise

Industrial

Others

## Market segment by players, this report covers

MagiQ Technologies

ID Quantique

QuantumCTek

Toshiba

CAS Quantum Network

Crypta Labs

NEC

Qubitekk

QuintessenceLabs

Arqit

Beijing ZhongChuangWei

KETS Quantum

SpeQtral

Crypto Quantique

Ki3 Photonics

Anhui Qasky Quantum Technology

QEYnet

QuantLR

Qunnect

GoQuantum

Nu Quantum

Quantum Xchange

Qulabs

Quantropi

Aliro Quantum

Aegiq

Qudoor

Quantum Telecommunications Italy (QTI)

nodeQ

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, 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 Communication product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Quantum Communication 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 Communication 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

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

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