

Global Quantum Communication Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Quantum Communication market size will reach 2,323.65 Million USD in 2025 and is projected to reach 13,088.14 Million USD by 2032, with a CAGR of 28.01% (2025-2032). Notably, the China Quantum Communication market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Quantum communication is a field of quantum information science that focuses on the secure transmission of information using the principles of quantum mechanics. Unlike classical communication systems, which rely on classical bits to transmit information, quantum communication harnesses the unique properties of quantum bits or qubits. One key aspect is quantum key distribution (QKD), a method that enables two parties to share secret cryptographic keys securely, using the principles of quantum superposition and entanglement to detect any eavesdropping attempts. Quantum communication holds the promise of ultra-secure communication channels, as any attempt to intercept or measure the quantum states of transmitted particles would disturb the quantum information, alerting the communicating parties to potential security breaches. The development of quantum communication technologies is integral to creating quantum-safe cryptographic systems and ensuring the confidentiality and integrity of information in the era of quantum computing.

The major global suppliers of Quantum Communication include 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, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Quantum Communication. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global Quantum Communication market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Quantum Communication market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Quantum Communication industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Suppliers of Quantum Communication Include:

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

Quantum Communication Product Segment Include:

Hardware

Software

Service

Quantum Communication Product Application Include:

Government

Military and Defense

Telecommunication

BFSI

Enterprise

Industrial

Others

Chapter Scope

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