

Global Quantum Key Distribution (QKD) Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G1EEFB586CA2EN.html>

Date: June 2026

Pages: 135

Price: US\$ 4,480.00 (Single User License)

ID: G1EEFB586CA2EN

Abstracts

The global Quantum Key Distribution (QKD) Module market size is expected to reach \$ 2992 million by 2032, rising at a market growth of 18.9% CAGR during the forecast period (2026-2032).

The gross profit margin of major companies in the industry is between 34% ? 56%.

Quantum Key Distribution Module is a secure communication component that uses quantum states to generate and distribute encryption keys between users. It is designed to detect eavesdropping attempts and support high-security network encryption in finance, government, defense, telecom, and critical infrastructure.

The industrial chain includes upstream single-photon detectors, lasers, modulators, optical components, control chips, fibers, and precision packaging. Midstream covers optical design, module integration, calibration, security protocol implementation, and testing. Downstream applications mainly include secure communication networks, data centers, financial systems, government networks, and quantum communication infrastructure.

This report studies the global Quantum Key Distribution (QKD) Module demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quantum Key Distribution (QKD) Module, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Quantum Key Distribution (QKD) Module that contribute to its increasing demand across many

markets.

Highlights and key features of the study

Global Quantum Key Distribution (QKD) Module total market, 2021-2032, (USD Million)

Global Quantum Key Distribution (QKD) Module total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Quantum Key Distribution (QKD) Module total market, key domestic companies, and share, (USD Million)

Global Quantum Key Distribution (QKD) Module revenue by player, revenue and market share 2021-2026, (USD Million)

Global Quantum Key Distribution (QKD) Module total market by Type, CAGR, 2021-2032, (USD Million)

Global Quantum Key Distribution (QKD) Module total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Quantum Key Distribution (QKD) Module 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, Toshiba, Thales, QuintessenceLabs, KETS Quantum Security, MagiQ Technologies, QNu Labs, SK Telecom, Nippon Telegraph and Telephone (NTT), KeeQuant, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Quantum Key Distribution (QKD) Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Quantum Key Distribution (QKD) Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Key Distribution (QKD) Module Market, Segmentation by Type:

BB84 QKD Module

Decoy-state QKD Module

Continuous-variable QKD Module

Global Quantum Key Distribution (QKD) Module Market, Segmentation by Transmission Medium:

Fiber-based QKD Module

Free-space QKD Module

Satellite QKD Module

Global Quantum Key Distribution (QKD) Module Market, Segmentation by Key Generation Rate:

Low Rate QKD Module (<10kbps)

Medium Rate QKD Module (10?100kbps)

High Rate QKD Module (?100kbps)

Global Quantum Key Distribution (QKD) Module Market, Segmentation by Application:

Government and Defense

Banking and Finance

Telecommunications

Other

Companies Profiled:

ID Quantique

Toshiba

Thales

QuintessenceLabs

KETS Quantum Security

MagiQ Technologies

QNu Labs

SK Telecom

Nippon Telegraph and Telephone (NTT)

KeeQuant

SpeQtral

IonQ

QuantumCTek

Qudoor

Qasky

Origin Quantum

CAS Quantum Network

Zhongke Ruicheng

Inspur (Quantum Division)

Key Questions Answered

1. How big is the global Quantum Key Distribution (QKD) Module market?
2. What is the demand of the global Quantum Key Distribution (QKD) Module market?
3. What is the year over year growth of the global Quantum Key Distribution (QKD) Module market?
4. What is the total value of the global Quantum Key Distribution (QKD) Module market?
5. Who are the Major Players in the global Quantum Key Distribution (QKD) Module market?
6. What are the growth factors driving the market demand?

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