

Quantum Key Distribution (QKD) Device Market, Global Outlook and Forecast 2022-2028

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Abstracts

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.

This report contains market size and forecasts of Quantum Key Distribution (QKD) Device in global, including the following market information:

Global Quantum Key Distribution (QKD) Device Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Quantum Key Distribution (QKD) Device Market Sales, 2017-2022, 2023-2028, (Unit)

Global top five Quantum Key Distribution (QKD) Device companies in 2021 (%)

The global Quantum Key Distribution (QKD) Device market was valued at 1469.6 million in 2021 and is projected to reach US\$ 5316.6 million by 2028, at a CAGR of 20.2% during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

First-generation QKD Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Quantum Key Distribution (QKD) Device include ID Quantique, SeQureNet, Quintessence Labs, MagiQ Technologies, Toshiba, QuantumCTek, Qasky and Qudoor, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Quantum Key Distribution (QKD) Device manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Quantum Key Distribution (QKD) Device Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Unit)

Global Quantum Key Distribution (QKD) Device Market Segment Percentages, by Type, 2021 (%)

First-generation QKD

Second-generation QKD

Global Quantum Key Distribution (QKD) Device Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Unit)

Global Quantum Key Distribution (QKD) Device Market Segment Percentages, by Application, 2021 (%)

Financial

Government

Military & Defense

Others

Global Quantum Key Distribution (QKD) Device Market, By Region and Country,
2017-2022, 2023-2028 (\$ Millions) & (Unit)

Global Quantum Key Distribution (QKD) Device Market Segment Percentages, By
Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Quantum Key Distribution (QKD) Device revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Quantum Key Distribution (QKD) Device revenues share in global market, 2021 (%)

Key companies Quantum Key Distribution (QKD) Device sales in global market, 2017-2022 (Estimated), (Unit)

Key companies Quantum Key Distribution (QKD) Device sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

ID Quantique

SeQureNet

Quintessence Labs

MagiQ Technologies

Toshiba

QuantumCTek

Qasky

Qudoor

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