

Global Quantum Cryptography Market -By
Components (Hardware, and Software); By
Applications (Network Security, Application Security,
and Database Encryption); By End-users (Governing
& regulatory Bodies, SMEs, Large Enterprises); By
Regions (Americas, EMEA, and, APAC) Drivers,
Opportunities, Restraints, Trends, and Forecast to
2024

https://marketpublishers.com/r/G4A95CD330BEN.html

Date: March 2018

Pages: 79

Price: US\$ 3,500.00 (Single User License)

ID: G4A95CD330BEN

Abstracts

Quantum Cryptography Market: Global Drivers, Restraints, Opportunities, Trends, and Forecasts up to 2024

Overview:

Quantum cryptography is a new method for secret communications that provides the assurance of security of digital data. Quantum cryptography is primarily based on the usage of individual particles/waves of light (photon) and their essential quantum properties for the development of an unbreakable cryptosystem, primarily because it is impossible to measure the quantum state of any system without disturbing that system. It is hypothetically possible that other particles could be used, but photons offer all the necessary qualities needed, the their behavior is comparatively understandable, and they are the information carriers in optical fiber cables, the most promising medium for very high-bandwidth communications.

Quantum computing majorly focuses on the growing computer technology that is built on the platform of quantum theory which provides the description about the nature and



behavior of energy and matter at quantum level. The fame of quantum mechanics in cryptography is growing because they are being used extensively in the encryption of information. Quantum cryptography allows the transmission of the most critical data at the most secured level, which in turn, propels the growth of the quantum computing market. Quantum computing has got a huge array of applications.

Market Analysis:

According to Infoholic Research, the Global Quantum cryptography Market is expected to reach \$1.53 billion by 2023, growing at a CAGR of around 26.13% during the forecast period. The market is experiencing growth due to the increase in the data security and privacy concerns. In addition, with the growth in the adoption of cloud storage and computing technologies is driving the market forward. However, low customer awareness about quantum cryptography is hindering the market growth. The rising demands for security solutions across different verticals is expected to create lucrative opportunities for the market.

Market Segmentation Analysis:

The report provides a wide-ranging evaluation of the market. It provides in-depth qualitative insights, historical data, and supportable projections and assumptions about the market size. The projections featured in the report have been derived using proven research methodologies and assumptions based on the vendor's portfolio, blogs, whitepapers, and vendor presentations. Thus, the research report serves every side of the market and is segmented based on regional markets, type, applications, and endusers.

Countries and Vertical Analysis:

The report contains an in-depth analysis of the vendor profiles, which include financial health, business units, key business priorities, SWOT, strategy, and views; and competitive landscape. The prominent vendors covered in the report include ID Quantique, MagiQ Technologies, Nucrypt, Infineon Technologies, Qutools, QuintenssenceLabs, Crypta Labs, PQ Solutions, and Qubitekk and others. The vendors have been identified based on the portfolio, geographical presence, marketing & distribution channels, revenue generation, and significant investments in R&D.

Competitive Analysis



The report covers and analyzes the global intelligent apps market. Various strategies, such as joint ventures, partnerships, collaborations, and contracts, have been considered. In addition, as customers are in search of better solutions, there is expected to be a rising number of strategic partnerships for better product development. There is likely to be an increase in the number of mergers, acquisitions, and strategic partnerships during the forecast period.

Companies such as Nucrypt, Crypta Labs, Qutools, and Magiq Technologies are the key players in the global Quantum Cryptography market. Nucrypt has developed technologies for emerging applications in metrology and communication. The company has also produced and manufactured electronic and optical pulsers. In addition, Crypta Labs deals in application security for devices. The company deals in Quantum Random Number Generator products and solutions and Internet of Things (IoT). The major sectors the company is looking at are transport, military and medical.

The report includes the complete insight of the industry, and aims to provide an opportunity for the emerging and established players to understand the market trends, current scenario, initiatives taken by the government, and the latest technologies related to the market. In addition, it helps the venture capitalists in understanding the companies better and to take informed decisions.

Regional Analysis

The Americas held the largest chunk of market share in 2017 and is expected to dominate the quantum cryptography market during the forecast period. The region has always been a hub for high investments in research and development (R&D) activities, thus contributing to the development of new technologies. The growing concerns for the security of IT infrastructure and complex data in America have directed the enterprises in this region to adopt quantum cryptography and reliable authentication solutions.

Benefits

The report provides an in-depth analysis of the global intelligent apps market aiming to reduce the time to market the products and services, reduce operational cost, improve accuracy, and operational performance. With the help of quantum cryptography, various organizations can secure their crucial information, and increase productivity and efficiency. In addition, the solutions are proven to be reliable and improve scalability. The report discusses the types, applications, and regions related to this market. Further, the report provides details about the major challenges impacting the market growth.



Contents

1 INDUSTRY OUTLOOK

- 1.1 Industry Overview
- 1.2 Industry Trends
- 1.3 PEST Analysis

2 REPORT OUTLINE

- 2.1 Report Scope
- 2.2 Report Summary
- 2.3 Research Methodology
- 2.4 Report Assumptions

3 MARKET SNAPSHOT

- 3.1 Total Addressable Market (Cloud computing)
- 3.2 Segmented Addressable Market
 - 3.2.1 Global Cloud enabling technologies Market
 - 3.2.2 Global quantum Computing market

4 MARKET OUTLOOK

- 4.1 Overview
 - 4.1.1 Market Definition Infoholic Research
- 4.2 Market Trends and Impact
- 4.3 Market Segmentation
- 4.4 Porter 5 (Five) Forces

5 MARKET CHARACTERISTICS

- 5.1 Evolution
- 5.2 Value Chain
- 5.3 Benefits and Challenges of Quantum cryptography Market
- 5.4 Factors Influencing Quantum Cryptography Choice
- 5.5 Market Dynamics
 - 5.5.1 Drivers
 - 5.5.1.1 Growing Incidents of Cyber-Attacks



- 5.5.1.2 Increasing Data Security and Privacy Concerns
- 5.5.1.3 Rising Adoption Rate of Cloud Storage and Computing Technologies
- 5.5.1.4 Evolving Next-Generation Wireless Network Technologies
- 5.5.1.5 Adoption of the crypto cloud computing system
- 5.5.2 Restraints
 - 5.5.2.1 Low Customer Awareness About Quantum Cryptography
 - 5.5.2.1 Lack of Skills and Expertise
- 5.5.3 Opportunities
 - 5.5.3.1 Spur in the Demand for Security Solutions Across Verticals
 - 5.5.3.2 Rising use of biometrics for network security
 - 5.5.3.3 Growing trend of Bring your own device (BOD)
 - 5.5.3.4 Increasing Need for Integration Solutions
- 5.6 DRO Impact Analysis

6 APPLICATIONS

- 6.1 Overview
- 6.2 Network Security
 - 6.2.1 Market Size and Analysis
- 6.3 Database encryption
 - 6.3.1 Market Size and Analysis
- 6.4 Application Security
 - 6.4.1 Market Size and Analysis

7 COMPONENTS

- 7.1 Overview
- 7.2 Hardware
- 7.3 Software

8 REGIONS

- 8.1 Overview
- 8.2 Americas
 - 8.2.1 Market Size and Analysis
 - 8.2.2 DRO for the Americas
 - 8.2.3 US
 - 8.2.4 Canada
 - 8.2.5 Switzerland



- **8.3 EMEA**
 - 8.3.1 Market Size and Analysis
 - 8.3.2 DRO for Europe
 - 8.3.3 UK
 - 8.3.4 France
 - 8.3.5 Germany
- 8.4 Asia Pacific
 - 8.4.1 Market Size and Analysis
 - 8.4.2 DRO for APAC
 - 8.4.3 India
 - 8.4.4 China
 - 8.4.5 Japan

9 VENDOR PROFILES

- 9.1 Id Quantique
 - 9.1.1 Overview
 - 9.1.2 Business Units
 - 9.1.3 Geographic Revenue
 - 9.1.4 Business Focus
 - 9.1.5 SWOT Analysis
 - 9.1.6 Business Strategies
- 9.2 MagiQ Technologies
 - 9.2.1 Overview
 - 9.2.2 Business Units
 - 9.2.3 Geographic Revenue
 - 9.2.4 Business Focus
 - 9.2.5 SWOT Analysis
 - 9.2.6 Business Strategies
- 9.3 Quintessence labs
 - 9.3.1 Overview
 - 9.3.2 Business Units
 - 9.3.3 Geographic Revenue
 - 9.3.4 Business Focus
 - 9.3.5 SWOT Analysis
 - 9.3.6 Business Strategies
- 9.4 NuCrypt
 - 9.4.1 Overview
 - 9.4.2 Business Units



- 9.4.3 Geographic Revenue
- 9.4.4 Business Focus
- 9.4.5 SWOT Analysis
- 9.4.6 Business Strategies
- 9.5 Crypta Labs
 - 9.5.1 Overview
 - 9.5.2 Business Units
 - 9.5.3 Geographic Revenue
 - 9.5.4 Business Focus
 - 9.5.5 SWOT Analysis
 - 9.5.6 Business Strategies
- 9.6 IBM
 - 9.6.1 Overview
 - 9.6.2 Business Units
 - 9.6.3 Geographic Revenue
 - 9.6.4 Business Focus
 - 9.6.5 SWOT Analysis
 - 9.6.6 Business Strategies
- 9.7 HP
 - 9.7.1 Overview
 - 9.7.2 Business Units
 - 9.7.3 Geographic Revenue
 - 9.7.4 Business Focus
 - 9.7.5 SWOT Analysis
 - 9.7.6 Business Strategies

10 OTHER PROMINENT VENDORS

- 10.1 Qubitekk
 - 10.1.1 Overview
- 10.2 PQ Solutions
 - 10.2.1 Overview
- 10.3 Infineon
 - 10.3.1 Overview
- 10.4 SK Telecom
 - 10.4.1 Overview
- 10.5 Qasky
- 10.5.1 Overview



11 COMPANIES TO WATCH FOR

11.1 Mitsubishi Electric

11.1.1 Overview

11.2 NEC Corporation

11.2.1 Overview

11.3 Raytheon BBN Technologies

11.3.1 Overview

11.4 Toshiba

11.4.1 Overview

11.5 Nokia

11.5.1 Overview

Annexure

? Abbreviations

Tables

Table 1 QUANTUM CRYPTOGRAPHY MARKET REVENUE BY APPLICATIONS, 2017–2024 (\$BILLION)

Table 2 QUANTUM CRYPTOGRAPHY MARKET REVENUE BY COMPONENTS, 2017–2024 (\$BILLION)

Table 3 QUANTUM CRYPTOGRAPHY MARKET SHARE BY REGIONS, 2017–2023 (\$BILLION)

Table 4 DRO FOR THE AMERICAS

Table 5 AMERICAS MARKET REVENUE BY COMPONENTS, 2017–2024 (\$BILLION)

Table 6 AMERICAS MARKET REVENUE BY APPLICATION, 2018–2024 (\$BILLION)

Table 7 AMERICAS MARKET REVENUE BY END-USER, 2018–2024 (\$BILLION)

Table 8 DRO FOR EUROPE

Table 9 EMEA MARKET REVENUE BY COMPONENTS, 2018-2024 (\$BILLION)

Table 10 EMEA MARKET REVENUE BY APPLICATIONS, 2018–2024 (\$BILLION)

Table 11 EMEA MARKET REVENUE BY END-USER, 2018–2024 (\$BILLION)

Table 12 DRO FOR APAC

Table 13 APAC MARKET REVENUE BY COMPONENTS, 2018–2024 (\$BILLION)

Table 14 APAC MARKET REVENUE BY APPLICATIONS, 2018–2024 (\$BILLION)

Table 15 APAC MARKET REVENUE BY END-USER, 2018-2024 (\$BILLION)

?

Charts



Chart 1 PEST ANALYSIS OF QUANTUM CRYPTOGRAPHY MARKET

Chart 2 RESEARCH METHODOLOGY OF QUNATUM CRYPTOGRAPHY MARKET

Chart 3 CLOUD COMPUTING MARKET REVENUE, 2018–2024 (\$BILLION)

Chart 4 QUANTUM CRPYTOGRAPHY MARKET REVENUE, 2018–2024 (\$BILLION)

Chart 5 QUANTUM CRYPTOGRAPHY MARKET SEGMENTATION

Chart 6 PORTER 5 FORCES OF QUANTUM CRYPTOGRAPHY MARKET

Chart 7 EVOLUTION OF QUANTUM CRYPTOGRAPHY MARKET

Chart 8 VALUE CHAIN OF QUANTUM CRYPTOGRAPHY MARKET

Chart 9 VALUE CHAIN OF QUANTUM CRYPTOGRAPHY MARKET

Chart 10 FACTORS AFFECTING THE CHOICE OF QUANTUM CRYPTOGRAPHY SOLUTIONS

Chart 11 MARKET DYNAMICS - DRIVERS, RESTRAINTS & OPPORTUNITIES

Chart 12 DRO - IMPACT ANALYSIS OF QUANTUM CRYPTOGRAPHY MARKET

Chart 13 QUANTUM CRYPTOGRAPHY MARKET SHARE BY APPLICATIONS, 2018 AND 2024

Chart 14 NETWORK SECURITY MARKET REVENUE, 2018–2024 (\$BILLION)

Chart 15 DATABASE ENCRYPTION MARKET REVENUE, 2018–2024 (\$BILLION)

Chart 16 APPLICATION SECURITY MARKET REVENUE, 2018–2024 (\$BILLION)

Chart 17 QUANTUM CRYPTOGRAPHY MARKET SHARE BY COMPONENTS, 2018 AND 2024

Chart 18 HARDWARE MARKET REVENUE, 2017-2024 (\$BILLION)

Chart 19 SOFTWARE MARKET REVENUE, 2017–2023 (\$BILLION)

Chart 20 QUANTUM CRYPTOGRAPHY MARKET SHARE BY REGIONS, 2018 AND 2024

Chart 21 AMERICAS MARKET REVENUE, 2017–2024 (\$BILLION)

Chart 22 EMEA MARKET REVENUE, 2017–2024 (\$BILLION)

Chart 23 APAC MARKET REVENUE, 2017–2024 (\$BILLION)

Chart 24 ID QUANTIQUE: OVERVIEW SNAPSHOT

Chart 25 ID QUANTIQUE: BUSINESS UNITS

Chart 26 ID QUANTIQUE: GEOGRAPHIC REVENUE

Chart 27 ID QUANTIQUE: SWOT ANALYSIS

Chart 28 MAGIQ TECHNOLOGIES: OVERVIEW SNAPSHOT

Chart 29 MAGIQ TECHNOLOGIES: BUSINESS UNITS

Chart 30 MAGIQ TECHNOLOGIES: GEOGRAPHIC REVENUE

Chart 31 MAGIQ TECHNOLOGIES: SWOT ANALYSIS

Chart 32 QUINTESSENCELABS: OVERVIEW SNAPSHOT

Chart 33 QUINTESSENCELABS: BUSINESS UNITS

Chart 34 QUINTESSENCELABS: GEOGRAPHIC REVENUE

Chart 35 QUINTESSENCELABS: SWOT ANALYSIS



Chart 36 NUCRYPT: OVERVIEW SNAPSHOT

Chart 37 NUCRYPT: BUSINESS UNITS

Chart 38 NUCRYPT: GEOGRAPHIC REVENUE

Chart 39 NUCRYPT: SWOT ANALYSIS

Chart 40 CRYPTA LABS: OVERVIEW SNAPSHOT

Chart 41 CRYPTA LABS: BUSINESS UNITS

Chart 42 CRYPTA LABS: GEOGRAPHIC REVENUE

Chart 43 CRYPTA LABS: SWOT ANALYSIS

Chart 44 CRYPTA LABS: OVERVIEW SNAPSHOT

Chart 45 CRYPTA LABS: BUSINESS UNITS

Chart 46 CRYPTA LABS: GEOGRAPHIC REVENUE

Chart 47 CRYPTA LABS: SWOT ANALYSIS

Chart 48 CRYPTA LABS: OVERVIEW SNAPSHOT

Chart 49 CRYPTA LABS: BUSINESS UNITS

Chart 50 CRYPTA LABS: GEOGRAPHIC REVENUE

Chart 51 CRYPTA LABS: SWOT ANALYSIS



I would like to order

Product name: Global Quantum Cryptography Market -By Components (Hardware, and Software); By

Applications (Network Security, Application Security, and Database Encryption); By Endusers (Governing & regulatory Bodies, SMEs, Large Enterprises); By Regions (Americas, EMEA, and, APAC) Drivers, Opportunities, Restraints, Trends, and Forecast to 2024

Product link: https://marketpublishers.com/r/G4A95CD330BEN.html

Price: US\$ 3,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G4A95CD330BEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html



To place an order via fax simply print this form, fill in the information below and fax the completed form to $+44\ 20\ 7900\ 3970$