

# Global Quantum Random Number Generator (QRNG) Chip Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Quantum Random Number Generator (QRNG) Chip market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

According to our Semiconductor Research Center, in 2022, the global semiconductor equipment was valued at US\$ 109 billion. China mainland, China Taiwan and South Korea have a combined market share over 70%. North America, Europe and Japan, have a combined market share of 23%. The key drivers are high performance computing, AI, cloud computing, Servers, 5G and EV (electric vehicle), etc.

This report is a detailed and comprehensive analysis for global Quantum Random Number Generator (QRNG) Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### Key Features:

Global Quantum Random Number Generator (QRNG) Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Quantum Random Number Generator (QRNG) Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Quantum Random Number Generator (QRNG) Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Quantum Random Number Generator (QRNG) Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Quantum Random Number Generator (QRNG) Chip
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Quantum Random Number Generator (QRNG) Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ID Quantique, QRANGE, QuantumCTek, Quantum Technology, Terra Quantum, etc.

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

### **Market Segmentation**

Quantum Random Number Generator (QRNG) Chip market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PCIe Type

USB Type

Others

#### Market segment by Application

Automotive

Mobile Handsets

IoT and Edge Devices

Other

#### Major players covered

ID Quantique

QRANGE

QuantumCTek

Quantum Technology

Terra Quantum

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

*Global Quantum Random Number Generator (QRNG) Chip Market 2025 by Manufacturers, Regions, Type and Application...*

Chapter 1, to describe Quantum Random Number Generator (QRNG) Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quantum Random Number Generator (QRNG) Chip, with price, sales quantity, revenue, and global market share of Quantum Random Number Generator (QRNG) Chip from 2020 to 2025.

Chapter 3, the Quantum Random Number Generator (QRNG) Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quantum Random Number Generator (QRNG) Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Quantum Random Number Generator (QRNG) Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Quantum Random Number Generator (QRNG) Chip.

Chapter 14 and 15, to describe Quantum Random Number Generator (QRNG) Chip sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

#### 1.1 Product Overview and Scope

#### 1.2 Market Estimation Caveats and Base Year

#### 1.3 Market Analysis by Type

##### 1.3.1 Overview: Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Type: 2020 Versus 2024 Versus 2031

##### 1.3.2 PCIe Type

##### 1.3.3 USB Type

##### 1.3.4 Others

#### 1.4 Market Analysis by Application

##### 1.4.1 Overview: Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Application: 2020 Versus 2024 Versus 2031

##### 1.4.2 Automotive

##### 1.4.3 Mobile Handsets

##### 1.4.4 IoT and Edge Devices

##### 1.4.5 Other

#### 1.5 Global Quantum Random Number Generator (QRNG) Chip Market Size & Forecast

##### 1.5.1 Global Quantum Random Number Generator (QRNG) Chip Consumption Value (2020 & 2024 & 2031)

##### 1.5.2 Global Quantum Random Number Generator (QRNG) Chip Sales Quantity (2020-2031)

##### 1.5.3 Global Quantum Random Number Generator (QRNG) Chip Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

#### 2.1 ID Quantique

##### 2.1.1 ID Quantique Details

##### 2.1.2 ID Quantique Major Business

##### 2.1.3 ID Quantique Quantum Random Number Generator (QRNG) Chip Product and Services

##### 2.1.4 ID Quantique Quantum Random Number Generator (QRNG) Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

##### 2.1.5 ID Quantique Recent Developments/Updates

#### 2.2 QRANGE

##### 2.2.1 QRANGE Details

#### 2.2.2 QRANGE Major Business

#### 2.2.3 QRANGE Quantum Random Number Generator (QRNG) Chip Product and Services

#### 2.2.4 QRANGE Quantum Random Number Generator (QRNG) Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

#### 2.2.5 QRANGE Recent Developments/Updates

### 2.3 QuantumCTek

#### 2.3.1 QuantumCTek Details

#### 2.3.2 QuantumCTek Major Business

#### 2.3.3 QuantumCTek Quantum Random Number Generator (QRNG) Chip Product and Services

#### 2.3.4 QuantumCTek Quantum Random Number Generator (QRNG) Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

#### 2.3.5 QuantumCTek Recent Developments/Updates

### 2.4 Quantum Technology

#### 2.4.1 Quantum Technology Details

#### 2.4.2 Quantum Technology Major Business

#### 2.4.3 Quantum Technology Quantum Random Number Generator (QRNG) Chip Product and Services

#### 2.4.4 Quantum Technology Quantum Random Number Generator (QRNG) Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

#### 2.4.5 Quantum Technology Recent Developments/Updates

### 2.5 Terra Quantum

#### 2.5.1 Terra Quantum Details

#### 2.5.2 Terra Quantum Major Business

#### 2.5.3 Terra Quantum Quantum Random Number Generator (QRNG) Chip Product and Services

#### 2.5.4 Terra Quantum Quantum Random Number Generator (QRNG) Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

#### 2.5.5 Terra Quantum Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: QUANTUM RANDOM NUMBER GENERATOR (QRNG) CHIP BY MANUFACTURER**

#### 3.1 Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Manufacturer (2020-2025)

#### 3.2 Global Quantum Random Number Generator (QRNG) Chip Revenue by Manufacturer (2020-2025)

#### 3.3 Global Quantum Random Number Generator (QRNG) Chip Average Price by

Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Quantum Random Number Generator (QRNG) Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Quantum Random Number Generator (QRNG) Chip Manufacturer Market Share in 2024

3.4.3 Top 6 Quantum Random Number Generator (QRNG) Chip Manufacturer Market Share in 2024

3.5 Quantum Random Number Generator (QRNG) Chip Market: Overall Company Footprint Analysis

3.5.1 Quantum Random Number Generator (QRNG) Chip Market: Region Footprint

3.5.2 Quantum Random Number Generator (QRNG) Chip Market: Company Product Type Footprint

3.5.3 Quantum Random Number Generator (QRNG) Chip Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global Quantum Random Number Generator (QRNG) Chip Market Size by Region

4.1.1 Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Region (2020-2031)

4.1.2 Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Region (2020-2031)

4.1.3 Global Quantum Random Number Generator (QRNG) Chip Average Price by Region (2020-2031)

4.2 North America Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031)

4.3 Europe Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031)

4.4 Asia-Pacific Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031)

4.5 South America Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031)

4.6 Middle East & Africa Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2031)

5.2 Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Type (2020-2031)

5.3 Global Quantum Random Number Generator (QRNG) Chip Average Price by Type (2020-2031)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2031)

6.2 Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Application (2020-2031)

6.3 Global Quantum Random Number Generator (QRNG) Chip Average Price by Application (2020-2031)

## **7 NORTH AMERICA**

7.1 North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2031)

7.2 North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2031)

7.3 North America Quantum Random Number Generator (QRNG) Chip Market Size by Country

7.3.1 North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Country (2020-2031)

7.3.2 North America Quantum Random Number Generator (QRNG) Chip Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

## **8 EUROPE**

8.1 Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2031)

8.2 Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2031)

### 8.3 Europe Quantum Random Number Generator (QRNG) Chip Market Size by Country

8.3.1 Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Country (2020-2031)

8.3.2 Europe Quantum Random Number Generator (QRNG) Chip Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

## 9 ASIA-PACIFIC

9.1 Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Quantum Random Number Generator (QRNG) Chip Market Size by Region

9.3.1 Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Quantum Random Number Generator (QRNG) Chip Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

## 10 SOUTH AMERICA

10.1 South America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2031)

10.2 South America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2031)

10.3 South America Quantum Random Number Generator (QRNG) Chip Market Size by Country

10.3.1 South America Quantum Random Number Generator (QRNG) Chip Sales

## Quantity by Country (2020-2031)

### 10.3.2 South America Quantum Random Number Generator (QRNG) Chip

## Consumption Value by Country (2020-2031)

### 10.3.3 Brazil Market Size and Forecast (2020-2031)

### 10.3.4 Argentina Market Size and Forecast (2020-2031)

## **11 MIDDLE EAST & AFRICA**

### 11.1 Middle East & Africa Quantum Random Number Generator (QRNG) Chip Sales

#### Quantity by Type (2020-2031)

### 11.2 Middle East & Africa Quantum Random Number Generator (QRNG) Chip Sales

#### Quantity by Application (2020-2031)

### 11.3 Middle East & Africa Quantum Random Number Generator (QRNG) Chip Market Size by Country

#### 11.3.1 Middle East & Africa Quantum Random Number Generator (QRNG) Chip Sales Quantity by Country (2020-2031)

#### 11.3.2 Middle East & Africa Quantum Random Number Generator (QRNG) Chip Consumption Value by Country (2020-2031)

##### 11.3.3 Turkey Market Size and Forecast (2020-2031)

##### 11.3.4 Egypt Market Size and Forecast (2020-2031)

##### 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

##### 11.3.6 South Africa Market Size and Forecast (2020-2031)

## **12 MARKET DYNAMICS**

### 12.1 Quantum Random Number Generator (QRNG) Chip Market Drivers

### 12.2 Quantum Random Number Generator (QRNG) Chip Market Restraints

### 12.3 Quantum Random Number Generator (QRNG) Chip Trends Analysis

### 12.4 Porters Five Forces Analysis

#### 12.4.1 Threat of New Entrants

#### 12.4.2 Bargaining Power of Suppliers

#### 12.4.3 Bargaining Power of Buyers

#### 12.4.4 Threat of Substitutes

#### 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

### 13.1 Raw Material of Quantum Random Number Generator (QRNG) Chip and Key Manufacturers

13.2 Manufacturing Costs Percentage of Quantum Random Number Generator (QRNG) Chip

13.3 Quantum Random Number Generator (QRNG) Chip Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Quantum Random Number Generator (QRNG) Chip Typical Distributors

14.3 Quantum Random Number Generator (QRNG) Chip Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. ID Quantique Basic Information, Manufacturing Base and Competitors

Table 4. ID Quantique Major Business

Table 5. ID Quantique Quantum Random Number Generator (QRNG) Chip Product and Services

Table 6. ID Quantique Quantum Random Number Generator (QRNG) Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. ID Quantique Recent Developments/Updates

Table 8. QRANGE Basic Information, Manufacturing Base and Competitors

Table 9. QRANGE Major Business

Table 10. QRANGE Quantum Random Number Generator (QRNG) Chip Product and Services

Table 11. QRANGE Quantum Random Number Generator (QRNG) Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. QRANGE Recent Developments/Updates

Table 13. QuantumCTek Basic Information, Manufacturing Base and Competitors

Table 14. QuantumCTek Major Business

Table 15. QuantumCTek Quantum Random Number Generator (QRNG) Chip Product and Services

Table 16. QuantumCTek Quantum Random Number Generator (QRNG) Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. QuantumCTek Recent Developments/Updates

Table 18. Quantum Technology Basic Information, Manufacturing Base and Competitors

Table 19. Quantum Technology Major Business

Table 20. Quantum Technology Quantum Random Number Generator (QRNG) Chip Product and Services

Table 21. Quantum Technology Quantum Random Number Generator (QRNG) Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross

## Margin and Market Share (2020-2025)

Table 22. Quantum Technology Recent Developments/Updates

Table 23. Terra Quantum Basic Information, Manufacturing Base and Competitors

Table 24. Terra Quantum Major Business

Table 25. Terra Quantum Quantum Random Number Generator (QRNG) Chip Product and Services

Table 26. Terra Quantum Quantum Random Number Generator (QRNG) Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Terra Quantum Recent Developments/Updates

Table 28. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 29. Global Quantum Random Number Generator (QRNG) Chip Revenue by Manufacturer (2020-2025) & (USD Million)

Table 30. Global Quantum Random Number Generator (QRNG) Chip Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 31. Market Position of Manufacturers in Quantum Random Number Generator (QRNG) Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 32. Head Office and Quantum Random Number Generator (QRNG) Chip Production Site of Key Manufacturer

Table 33. Quantum Random Number Generator (QRNG) Chip Market: Company Product Type Footprint

Table 34. Quantum Random Number Generator (QRNG) Chip Market: Company Product Application Footprint

Table 35. Quantum Random Number Generator (QRNG) Chip New Market Entrants and Barriers to Market Entry

Table 36. Quantum Random Number Generator (QRNG) Chip Mergers, Acquisition, Agreements, and Collaborations

Table 37. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 38. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Region (2020-2025) & (K Units)

Table 39. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Region (2026-2031) & (K Units)

Table 40. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Region (2020-2025) & (USD Million)

Table 41. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Region (2026-2031) & (USD Million)

Table 42. Global Quantum Random Number Generator (QRNG) Chip Average Price by

Region (2020-2025) & (US\$/Unit)

Table 43. Global Quantum Random Number Generator (QRNG) Chip Average Price by Region (2026-2031) & (US\$/Unit)

Table 44. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 45. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 46. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Type (2020-2025) & (USD Million)

Table 47. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Type (2026-2031) & (USD Million)

Table 48. Global Quantum Random Number Generator (QRNG) Chip Average Price by Type (2020-2025) & (US\$/Unit)

Table 49. Global Quantum Random Number Generator (QRNG) Chip Average Price by Type (2026-2031) & (US\$/Unit)

Table 50. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 51. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 52. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Application (2020-2025) & (USD Million)

Table 53. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Application (2026-2031) & (USD Million)

Table 54. Global Quantum Random Number Generator (QRNG) Chip Average Price by Application (2020-2025) & (US\$/Unit)

Table 55. Global Quantum Random Number Generator (QRNG) Chip Average Price by Application (2026-2031) & (US\$/Unit)

Table 56. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 57. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 58. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 59. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 60. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Country (2020-2025) & (K Units)

Table 61. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Country (2026-2031) & (K Units)

Table 62. North America Quantum Random Number Generator (QRNG) Chip Consumption Value by Country (2020-2025) & (USD Million)

Table 63. North America Quantum Random Number Generator (QRNG) Chip Consumption Value by Country (2026-2031) & (USD Million)

Table 64. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 65. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 66. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 67. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 68. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Country (2020-2025) & (K Units)

Table 69. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity by Country (2026-2031) & (K Units)

Table 70. Europe Quantum Random Number Generator (QRNG) Chip Consumption Value by Country (2020-2025) & (USD Million)

Table 71. Europe Quantum Random Number Generator (QRNG) Chip Consumption Value by Country (2026-2031) & (USD Million)

Table 72. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 73. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 74. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 75. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 76. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Region (2020-2025) & (K Units)

Table 77. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity by Region (2026-2031) & (K Units)

Table 78. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Consumption Value by Region (2020-2025) & (USD Million)

Table 79. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Consumption Value by Region (2026-2031) & (USD Million)

Table 80. South America Quantum Random Number Generator (QRNG) Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 81. South America Quantum Random Number Generator (QRNG) Chip Sales

Quantity by Type (2026-2031) & (K Units)

Table 82. South America Quantum Random Number Generator (QRNG) Chip Sales  
Quantity by Application (2020-2025) & (K Units)

Table 83. South America Quantum Random Number Generator (QRNG) Chip Sales  
Quantity by Application (2026-2031) & (K Units)

Table 84. South America Quantum Random Number Generator (QRNG) Chip Sales  
Quantity by Country (2020-2025) & (K Units)

Table 85. South America Quantum Random Number Generator (QRNG) Chip Sales  
Quantity by Country (2026-2031) & (K Units)

Table 86. South America Quantum Random Number Generator (QRNG) Chip  
Consumption Value by Country (2020-2025) & (USD Million)

Table 87. South America Quantum Random Number Generator (QRNG) Chip  
Consumption Value by Country (2026-2031) & (USD Million)

Table 88. Middle East & Africa Quantum Random Number Generator (QRNG) Chip  
Sales Quantity by Type (2020-2025) & (K Units)

Table 89. Middle East & Africa Quantum Random Number Generator (QRNG) Chip  
Sales Quantity by Type (2026-2031) & (K Units)

Table 90. Middle East & Africa Quantum Random Number Generator (QRNG) Chip  
Sales Quantity by Application (2020-2025) & (K Units)

Table 91. Middle East & Africa Quantum Random Number Generator (QRNG) Chip  
Sales Quantity by Application (2026-2031) & (K Units)

Table 92. Middle East & Africa Quantum Random Number Generator (QRNG) Chip  
Sales Quantity by Country (2020-2025) & (K Units)

Table 93. Middle East & Africa Quantum Random Number Generator (QRNG) Chip  
Sales Quantity by Country (2026-2031) & (K Units)

Table 94. Middle East & Africa Quantum Random Number Generator (QRNG) Chip  
Consumption Value by Country (2020-2025) & (USD Million)

Table 95. Middle East & Africa Quantum Random Number Generator (QRNG) Chip  
Consumption Value by Country (2026-2031) & (USD Million)

Table 96. Quantum Random Number Generator (QRNG) Chip Raw Material

Table 97. Key Manufacturers of Quantum Random Number Generator (QRNG) Chip  
Raw Materials

Table 98. Quantum Random Number Generator (QRNG) Chip Typical Distributors

Table 99. Quantum Random Number Generator (QRNG) Chip Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Quantum Random Number Generator (QRNG) Chip Picture
- Figure 2. Global Quantum Random Number Generator (QRNG) Chip Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global Quantum Random Number Generator (QRNG) Chip Revenue Market Share by Type in 2024
- Figure 4. PCIe Type Examples
- Figure 5. USB Type Examples
- Figure 6. Others Examples
- Figure 7. Global Quantum Random Number Generator (QRNG) Chip Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 8. Global Quantum Random Number Generator (QRNG) Chip Revenue Market Share by Application in 2024
- Figure 9. Automotive Examples
- Figure 10. Mobile Handsets Examples
- Figure 11. IoT and Edge Devices Examples
- Figure 12. Other Examples
- Figure 13. Global Quantum Random Number Generator (QRNG) Chip Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 14. Global Quantum Random Number Generator (QRNG) Chip Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 15. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity (2020-2031) & (K Units)
- Figure 16. Global Quantum Random Number Generator (QRNG) Chip Price (2020-2031) & (US\$/Unit)
- Figure 17. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Manufacturer in 2024
- Figure 18. Global Quantum Random Number Generator (QRNG) Chip Revenue Market Share by Manufacturer in 2024
- Figure 19. Producer Shipments of Quantum Random Number Generator (QRNG) Chip by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 20. Top 3 Quantum Random Number Generator (QRNG) Chip Manufacturer (Revenue) Market Share in 2024
- Figure 21. Top 6 Quantum Random Number Generator (QRNG) Chip Manufacturer (Revenue) Market Share in 2024
- Figure 22. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity

Market Share by Region (2020-2031)

Figure 23. Global Quantum Random Number Generator (QRNG) Chip Consumption Value Market Share by Region (2020-2031)

Figure 24. North America Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 25. Europe Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 26. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 27. South America Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 28. Middle East & Africa Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 29. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Type (2020-2031)

Figure 30. Global Quantum Random Number Generator (QRNG) Chip Consumption Value Market Share by Type (2020-2031)

Figure 31. Global Quantum Random Number Generator (QRNG) Chip Average Price by Type (2020-2031) & (US\$/Unit)

Figure 32. Global Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Application (2020-2031)

Figure 33. Global Quantum Random Number Generator (QRNG) Chip Revenue Market Share by Application (2020-2031)

Figure 34. Global Quantum Random Number Generator (QRNG) Chip Average Price by Application (2020-2031) & (US\$/Unit)

Figure 35. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Type (2020-2031)

Figure 36. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Application (2020-2031)

Figure 37. North America Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Country (2020-2031)

Figure 38. North America Quantum Random Number Generator (QRNG) Chip Consumption Value Market Share by Country (2020-2031)

Figure 39. United States Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Type (2020-2031)

Figure 43. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Application (2020-2031)

Figure 44. Europe Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe Quantum Random Number Generator (QRNG) Chip Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 47. France Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific Quantum Random Number Generator (QRNG) Chip Consumption Value Market Share by Region (2020-2031)

Figure 55. China Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 58. India Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 61. South America Quantum Random Number Generator (QRNG) Chip Sales

Quantity Market Share by Type (2020-2031)

Figure 62. South America Quantum Random Number Generator (QRNG) Chip Sales

Quantity Market Share by Application (2020-2031)

Figure 63. South America Quantum Random Number Generator (QRNG) Chip Sales

Quantity Market Share by Country (2020-2031)

Figure 64. South America Quantum Random Number Generator (QRNG) Chip

Consumption Value Market Share by Country (2020-2031)

Figure 65. Brazil Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 66. Argentina Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 67. Middle East & Africa Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Type (2020-2031)

Figure 68. Middle East & Africa Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa Quantum Random Number Generator (QRNG) Chip Sales Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa Quantum Random Number Generator (QRNG) Chip Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 72. Egypt Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 73. Saudi Arabia Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 74. South Africa Quantum Random Number Generator (QRNG) Chip Consumption Value (2020-2031) & (USD Million)

Figure 75. Quantum Random Number Generator (QRNG) Chip Market Drivers

Figure 76. Quantum Random Number Generator (QRNG) Chip Market Restraints

Figure 77. Quantum Random Number Generator (QRNG) Chip Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Quantum Random Number Generator (QRNG) Chip in 2024

Figure 80. Manufacturing Process Analysis of Quantum Random Number Generator (QRNG) Chip

Figure 81. Quantum Random Number Generator (QRNG) Chip Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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