

Global Quantum Random Number Generator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quantum Random Number Generator market size is expected to reach \$ 307 million by 2032, rising at a market growth of 24.0% CAGR during the forecast period (2026-2032).

In 2025, global sales of Quantum Random Number Generator reached approximately 20 k units, with an average market price of about USD 3300 unit, an annual production capacity of roughly 23 k units, and an industry-average gross margin of approximately 28%.

A Quantum Random Number Generator (QRNG) is a hardware device or hardware entropy-source system that generates unpredictable random bit streams by exploiting the intrinsic randomness of quantum physical processes. This study focuses on commercially supplied or integrable QRNG chips, quantum entropy-source chips, modules, USB/PCIe cards, rack-mounted or server-type devices, and OEM hardware designs that can be embedded into third-party security, communication, computing or industrial systems. A typical QRNG consists of a quantum entropy source, optical or semiconductor detection components, analog sampling circuitry, randomness extraction or post-processing logic, health-test mechanisms, interface protocols and supporting software drivers. Common technology routes include photon arrival-time measurement, laser phase noise, quantum vacuum fluctuation, shot noise, electron tunneling, avalanche breakdown and radioactive decay. Key performance parameters include random bit generation rate, entropy-source assurance, randomness-test compliance, interface type, form factor, power consumption, temperature stability, certification status and ease of system integration. QRNGs are mainly used in cryptographic key generation, quantum key distribution, hardware security modules, VPNs, cloud security infrastructure, IoT security, automotive cybersecurity, gaming and lottery systems,

Monte Carlo simulation, statistical sampling and other applications requiring high-quality unpredictable randomness.

This report studies the global Quantum Random Number Generator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quantum Random Number Generator 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 Random Number Generator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quantum Random Number Generator total production and demand, 2021-2032, (Units)

Global Quantum Random Number Generator total production value, 2021-2032, (USD Million)

Global Quantum Random Number Generator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Quantum Random Number Generator consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Quantum Random Number Generator domestic production, consumption, key domestic manufacturers and share

Global Quantum Random Number Generator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Quantum Random Number Generator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Quantum Random Number Generator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Quantum Random Number Generator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ID Quantique SA, QuantumCTek, QuintessenceLabs, Quside Technologies, EYL Inc., QNu Labs, Anhui Qasky Quantum, Zhejiang Quantum Technologies, Shanghai Xuntai Quantum, Hefei Guizhen Chip, 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 Random Number Generator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, 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 Random Number Generator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quantum Random Number Generator Market, Segmentation by Type:

QRNG Chip

QRNG Module

Global Quantum Random Number Generator Market, Segmentation by Interface:

USB Interface

PCIe Interface

Other

Global Quantum Random Number Generator Market, Segmentation by Application:

Key Generation

Hardware Security Modules

Other

Companies Profiled:

ID Quantique SA

QuantumCTek

QuintessenceLabs

Quside Technologies

EYL Inc.

QNu Labs

Anhui Qasky Quantum

Zhejiang Quantum Technologies

Shanghai Xuntai Quantum

Hefei Guizhen Chip

S-Fifteen Instruments

Micro Photon Devices

Crypta Labs

Quantum Dice

ThinkQuantum

Quantum Computing Inc.

Taqbit Labs

Elmos Semiconductor

TuringQ

Key Questions Answered:

1. How big is the global Quantum Random Number Generator market?
2. What is the demand of the global Quantum Random Number Generator market?
3. What is the year over year growth of the global Quantum Random Number Generator market?
4. What is the production and production value of the global Quantum Random Number Generator market?
5. Who are the key producers in the global Quantum Random Number Generator market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Quantum Random Number Generator Introduction
- 1.2 World Quantum Random Number Generator Supply & Forecast
 - 1.2.1 World Quantum Random Number Generator Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Quantum Random Number Generator Production (2021-2032)
 - 1.2.3 World Quantum Random Number Generator Pricing Trends (2021-2032)
- 1.3 World Quantum Random Number Generator Production by Region (Based on Production Site)
 - 1.3.1 World Quantum Random Number Generator Production Value by Region (2021-2032)
 - 1.3.2 World Quantum Random Number Generator Production by Region (2021-2032)
 - 1.3.3 World Quantum Random Number Generator Average Price by Region (2021-2032)
 - 1.3.4 North America Quantum Random Number Generator Production (2021-2032)
 - 1.3.5 Europe Quantum Random Number Generator Production (2021-2032)
 - 1.3.6 China Quantum Random Number Generator Production (2021-2032)
 - 1.3.7 Japan Quantum Random Number Generator Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Quantum Random Number Generator Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Quantum Random Number Generator Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Quantum Random Number Generator Demand (2021-2032)
- 2.2 World Quantum Random Number Generator Consumption by Region
 - 2.2.1 World Quantum Random Number Generator Consumption by Region (2021-2026)
 - 2.2.2 World Quantum Random Number Generator Consumption Forecast by Region (2027-2032)
- 2.3 United States Quantum Random Number Generator Consumption (2021-2032)
- 2.4 China Quantum Random Number Generator Consumption (2021-2032)
- 2.5 Europe Quantum Random Number Generator Consumption (2021-2032)
- 2.6 Japan Quantum Random Number Generator Consumption (2021-2032)
- 2.7 South Korea Quantum Random Number Generator Consumption (2021-2032)

2.8 ASEAN Quantum Random Number Generator Consumption (2021-2032)

2.9 India Quantum Random Number Generator Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Quantum Random Number Generator Production Value by Manufacturer (2021-2026)

3.2 World Quantum Random Number Generator Production by Manufacturer (2021-2026)

3.3 World Quantum Random Number Generator Average Price by Manufacturer (2021-2026)

3.4 Quantum Random Number Generator Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Quantum Random Number Generator Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Quantum Random Number Generator in 2025

3.5.3 Global Concentration Ratios (CR8) for Quantum Random Number Generator in 2025

3.6 Quantum Random Number Generator Market: Overall Company Footprint Analysis

3.6.1 Quantum Random Number Generator Market: Region Footprint

3.6.2 Quantum Random Number Generator Market: Company Product Type Footprint

3.6.3 Quantum Random Number Generator Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Quantum Random Number Generator Production Value Comparison

4.1.1 United States VS China: Quantum Random Number Generator Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Quantum Random Number Generator Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Quantum Random Number Generator Production Comparison

4.2.1 United States VS China: Quantum Random Number Generator Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Quantum Random Number Generator Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Quantum Random Number Generator Consumption Comparison

4.3.1 United States VS China: Quantum Random Number Generator Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Quantum Random Number Generator Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Quantum Random Number Generator Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Quantum Random Number Generator Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Quantum Random Number Generator Production Value (2021-2026)

4.4.3 United States Based Manufacturers Quantum Random Number Generator Production (2021-2026)

4.5 China Based Quantum Random Number Generator Manufacturers and Market Share

4.5.1 China Based Quantum Random Number Generator Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Quantum Random Number Generator Production Value (2021-2026)

4.5.3 China Based Manufacturers Quantum Random Number Generator Production (2021-2026)

4.6 Rest of World Based Quantum Random Number Generator Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Quantum Random Number Generator Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Quantum Random Number Generator Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Quantum Random Number Generator Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Quantum Random Number Generator Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 QRNG Chip

5.2.2 QRNG Module

5.3 Market Segment by Type

5.3.1 World Quantum Random Number Generator Production by Type (2021-2032)

5.3.2 World Quantum Random Number Generator Production Value by Type (2021-2032)

5.3.3 World Quantum Random Number Generator Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INTERFACE

6.1 World Quantum Random Number Generator Market Size Overview by Interface: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Interface

6.2.1 USB Interface

6.2.2 PCIe Interface

6.2.3 Other

6.3 Market Segment by Interface

6.3.1 World Quantum Random Number Generator Production by Interface (2021-2032)

6.3.2 World Quantum Random Number Generator Production Value by Interface (2021-2032)

6.3.3 World Quantum Random Number Generator Average Price by Interface (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Quantum Random Number Generator Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Key Generation

7.2.2 Hardware Security Modules

7.2.3 Other

7.3 Market Segment by Application

7.3.1 World Quantum Random Number Generator Production by Application (2021-2032)

7.3.2 World Quantum Random Number Generator Production Value by Application

(2021-2032)

7.3.3 World Quantum Random Number Generator Average Price by Application

(2021-2032)

8 COMPANY PROFILES

8.1 ID Quantique SA

8.1.1 ID Quantique SA Details

8.1.2 ID Quantique SA Major Business

8.1.3 ID Quantique SA Quantum Random Number Generator Product and Services

8.1.4 ID Quantique SA Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 ID Quantique SA Recent Developments/Updates

8.1.6 ID Quantique SA Competitive Strengths & Weaknesses

8.2 QuantumCTek

8.2.1 QuantumCTek Details

8.2.2 QuantumCTek Major Business

8.2.3 QuantumCTek Quantum Random Number Generator Product and Services

8.2.4 QuantumCTek Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 QuantumCTek Recent Developments/Updates

8.2.6 QuantumCTek Competitive Strengths & Weaknesses

8.3 QuintessenceLabs

8.3.1 QuintessenceLabs Details

8.3.2 QuintessenceLabs Major Business

8.3.3 QuintessenceLabs Quantum Random Number Generator Product and Services

8.3.4 QuintessenceLabs Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 QuintessenceLabs Recent Developments/Updates

8.3.6 QuintessenceLabs Competitive Strengths & Weaknesses

8.4 Quside Technologies

8.4.1 Quside Technologies Details

8.4.2 Quside Technologies Major Business

8.4.3 Quside Technologies Quantum Random Number Generator Product and Services

8.4.4 Quside Technologies Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Quside Technologies Recent Developments/Updates

8.4.6 Quside Technologies Competitive Strengths & Weaknesses

8.5 EYL Inc.

8.5.1 EYL Inc. Details

8.5.2 EYL Inc. Major Business

8.5.3 EYL Inc. Quantum Random Number Generator Product and Services

8.5.4 EYL Inc. Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 EYL Inc. Recent Developments/Updates

8.5.6 EYL Inc. Competitive Strengths & Weaknesses

8.6 QNu Labs

8.6.1 QNu Labs Details

8.6.2 QNu Labs Major Business

8.6.3 QNu Labs Quantum Random Number Generator Product and Services

8.6.4 QNu Labs Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 QNu Labs Recent Developments/Updates

8.6.6 QNu Labs Competitive Strengths & Weaknesses

8.7 Anhui Qasky Quantum

8.7.1 Anhui Qasky Quantum Details

8.7.2 Anhui Qasky Quantum Major Business

8.7.3 Anhui Qasky Quantum Quantum Random Number Generator Product and Services

8.7.4 Anhui Qasky Quantum Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Anhui Qasky Quantum Recent Developments/Updates

8.7.6 Anhui Qasky Quantum Competitive Strengths & Weaknesses

8.8 Zhejiang Quantum Technologies

8.8.1 Zhejiang Quantum Technologies Details

8.8.2 Zhejiang Quantum Technologies Major Business

8.8.3 Zhejiang Quantum Technologies Quantum Random Number Generator Product and Services

8.8.4 Zhejiang Quantum Technologies Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Zhejiang Quantum Technologies Recent Developments/Updates

8.8.6 Zhejiang Quantum Technologies Competitive Strengths & Weaknesses

8.9 Shanghai Xuntai Quantum

8.9.1 Shanghai Xuntai Quantum Details

8.9.2 Shanghai Xuntai Quantum Major Business

8.9.3 Shanghai Xuntai Quantum Quantum Random Number Generator Product and Services

8.9.4 Shanghai Xuntai Quantum Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Shanghai Xuntai Quantum Recent Developments/Updates

8.9.6 Shanghai Xuntai Quantum Competitive Strengths & Weaknesses

8.10 Hefei Guizhen Chip

8.10.1 Hefei Guizhen Chip Details

8.10.2 Hefei Guizhen Chip Major Business

8.10.3 Hefei Guizhen Chip Quantum Random Number Generator Product and Services

8.10.4 Hefei Guizhen Chip Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Hefei Guizhen Chip Recent Developments/Updates

8.10.6 Hefei Guizhen Chip Competitive Strengths & Weaknesses

8.11 S-Fifteen Instruments

8.11.1 S-Fifteen Instruments Details

8.11.2 S-Fifteen Instruments Major Business

8.11.3 S-Fifteen Instruments Quantum Random Number Generator Product and Services

8.11.4 S-Fifteen Instruments Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 S-Fifteen Instruments Recent Developments/Updates

8.11.6 S-Fifteen Instruments Competitive Strengths & Weaknesses

8.12 Micro Photon Devices

8.12.1 Micro Photon Devices Details

8.12.2 Micro Photon Devices Major Business

8.12.3 Micro Photon Devices Quantum Random Number Generator Product and Services

8.12.4 Micro Photon Devices Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Micro Photon Devices Recent Developments/Updates

8.12.6 Micro Photon Devices Competitive Strengths & Weaknesses

8.13 Crypta Labs

8.13.1 Crypta Labs Details

8.13.2 Crypta Labs Major Business

8.13.3 Crypta Labs Quantum Random Number Generator Product and Services

8.13.4 Crypta Labs Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 Crypta Labs Recent Developments/Updates

8.13.6 Crypta Labs Competitive Strengths & Weaknesses

8.14 Quantum Dice

8.14.1 Quantum Dice Details

8.14.2 Quantum Dice Major Business

8.14.3 Quantum Dice Quantum Random Number Generator Product and Services

8.14.4 Quantum Dice Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Quantum Dice Recent Developments/Updates

8.14.6 Quantum Dice Competitive Strengths & Weaknesses

8.15 ThinkQuantum

8.15.1 ThinkQuantum Details

8.15.2 ThinkQuantum Major Business

8.15.3 ThinkQuantum Quantum Random Number Generator Product and Services

8.15.4 ThinkQuantum Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 ThinkQuantum Recent Developments/Updates

8.15.6 ThinkQuantum Competitive Strengths & Weaknesses

8.16 Quantum Computing Inc.

8.16.1 Quantum Computing Inc. Details

8.16.2 Quantum Computing Inc. Major Business

8.16.3 Quantum Computing Inc. Quantum Random Number Generator Product and Services

8.16.4 Quantum Computing Inc. Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 Quantum Computing Inc. Recent Developments/Updates

8.16.6 Quantum Computing Inc. Competitive Strengths & Weaknesses

8.17 Taqbit Labs

8.17.1 Taqbit Labs Details

8.17.2 Taqbit Labs Major Business

8.17.3 Taqbit Labs Quantum Random Number Generator Product and Services

8.17.4 Taqbit Labs Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.17.5 Taqbit Labs Recent Developments/Updates

8.17.6 Taqbit Labs Competitive Strengths & Weaknesses

8.18 Elmos Semiconductor

8.18.1 Elmos Semiconductor Details

8.18.2 Elmos Semiconductor Major Business

8.18.3 Elmos Semiconductor Quantum Random Number Generator Product and Services

8.18.4 Elmos Semiconductor Quantum Random Number Generator Production, Price,

Value, Gross Margin and Market Share (2021-2026)

8.18.5 Elmos Semiconductor Recent Developments/Updates

8.18.6 Elmos Semiconductor Competitive Strengths & Weaknesses

8.19 TuringQ

8.19.1 TuringQ Details

8.19.2 TuringQ Major Business

8.19.3 TuringQ Quantum Random Number Generator Product and Services

8.19.4 TuringQ Quantum Random Number Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.19.5 TuringQ Recent Developments/Updates

8.19.6 TuringQ Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Quantum Random Number Generator Industry Chain

9.2 Quantum Random Number Generator Upstream Analysis

9.2.1 Quantum Random Number Generator Core Raw Materials

9.2.2 Main Manufacturers of Quantum Random Number Generator Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Quantum Random Number Generator Production Mode

9.6 Quantum Random Number Generator Procurement Model

9.7 Quantum Random Number Generator Industry Sales Model and Sales Channels

9.7.1 Quantum Random Number Generator Sales Model

9.7.2 Quantum Random Number Generator Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Quantum Random Number Generator Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Quantum Random Number Generator Production Value by Region (2021-2026) & (USD Million)

Table 3. World Quantum Random Number Generator Production Value by Region (2027-2032) & (USD Million)

Table 4. World Quantum Random Number Generator Production Value Market Share by Region (2021-2026)

Table 5. World Quantum Random Number Generator Production Value Market Share by Region (2027-2032)

Table 6. World Quantum Random Number Generator Production by Region (2021-2026) & (Units)

Table 7. World Quantum Random Number Generator Production by Region (2027-2032) & (Units)

Table 8. World Quantum Random Number Generator Production Market Share by Region (2021-2026)

Table 9. World Quantum Random Number Generator Production Market Share by Region (2027-2032)

Table 10. World Quantum Random Number Generator Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Quantum Random Number Generator Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Quantum Random Number Generator Major Market Trends

Table 13. World Quantum Random Number Generator Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Quantum Random Number Generator Consumption by Region (2021-2026) & (Units)

Table 15. World Quantum Random Number Generator Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Quantum Random Number Generator Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Quantum Random Number Generator Producers in 2025

Table 18. World Quantum Random Number Generator Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Quantum Random Number Generator Producers in 2025

Table 20. World Quantum Random Number Generator Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Quantum Random Number Generator Company Evaluation Quadrant

Table 22. World Quantum Random Number Generator Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Quantum Random Number Generator Production Site of Key Manufacturer

Table 24. Quantum Random Number Generator Market: Company Product Type Footprint

Table 25. Quantum Random Number Generator Market: Company Product Application Footprint

Table 26. Quantum Random Number Generator Competitive Factors

Table 27. Quantum Random Number Generator New Entrant and Capacity Expansion Plans

Table 28. Quantum Random Number Generator Mergers & Acquisitions Activity

Table 29. United States VS China Quantum Random Number Generator Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Quantum Random Number Generator Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Quantum Random Number Generator Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Quantum Random Number Generator Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Quantum Random Number Generator Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Quantum Random Number Generator Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Quantum Random Number Generator Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Quantum Random Number Generator Production Market Share (2021-2026)

Table 37. China Based Quantum Random Number Generator Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Quantum Random Number Generator Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Quantum Random Number Generator Production Value Market Share (2021-2026)

- Table 40. China Based Manufacturers Quantum Random Number Generator Production, (2021-2026) & (Units)
- Table 41. China Based Manufacturers Quantum Random Number Generator Production Market Share (2021-2026)
- Table 42. Rest of World Based Quantum Random Number Generator Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Quantum Random Number Generator Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Quantum Random Number Generator Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Quantum Random Number Generator Production, (2021-2026) & (Units)
- Table 46. Rest of World Based Manufacturers Quantum Random Number Generator Production Market Share (2021-2026)
- Table 47. World Quantum Random Number Generator Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Quantum Random Number Generator Production by Type (2021-2026) & (Units)
- Table 49. World Quantum Random Number Generator Production by Type (2027-2032) & (Units)
- Table 50. World Quantum Random Number Generator Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Quantum Random Number Generator Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Quantum Random Number Generator Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Quantum Random Number Generator Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Quantum Random Number Generator Production Value by Interface, (USD Million), 2021 & 2025 & 2032
- Table 55. World Quantum Random Number Generator Production by Interface (2021-2026) & (Units)
- Table 56. World Quantum Random Number Generator Production by Interface (2027-2032) & (Units)
- Table 57. World Quantum Random Number Generator Production Value by Interface (2021-2026) & (USD Million)
- Table 58. World Quantum Random Number Generator Production Value by Interface (2027-2032) & (USD Million)
- Table 59. World Quantum Random Number Generator Average Price by Interface

(2021-2026) & (US\$/Unit)

Table 60. World Quantum Random Number Generator Average Price by Interface

(2027-2032) & (US\$/Unit)

Table 61. World Quantum Random Number Generator Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Quantum Random Number Generator Production by Application (2021-2026) & (Units)

Table 63. World Quantum Random Number Generator Production by Application (2027-2032) & (Units)

Table 64. World Quantum Random Number Generator Production Value by Application (2021-2026) & (USD Million)

Table 65. World Quantum Random Number Generator Production Value by Application (2027-2032) & (USD Million)

Table 66. World Quantum Random Number Generator Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Quantum Random Number Generator Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. ID Quantique SA Basic Information, Manufacturing Base and Competitors

Table 69. ID Quantique SA Major Business

Table 70. ID Quantique SA Quantum Random Number Generator Product and Services

Table 71. ID Quantique SA Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. ID Quantique SA Recent Developments/Updates

Table 73. ID Quantique SA Competitive Strengths & Weaknesses

Table 74. QuantumCTek Basic Information, Manufacturing Base and Competitors

Table 75. QuantumCTek Major Business

Table 76. QuantumCTek Quantum Random Number Generator Product and Services

Table 77. QuantumCTek Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. QuantumCTek Recent Developments/Updates

Table 79. QuantumCTek Competitive Strengths & Weaknesses

Table 80. QuintessenceLabs Basic Information, Manufacturing Base and Competitors

Table 81. QuintessenceLabs Major Business

Table 82. QuintessenceLabs Quantum Random Number Generator Product and Services

Table 83. QuintessenceLabs Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 84. QuintessenceLabs Recent Developments/Updates

Table 85. QuintessenceLabs Competitive Strengths & Weaknesses

Table 86. Quside Technologies Basic Information, Manufacturing Base and Competitors

Table 87. Quside Technologies Major Business

Table 88. Quside Technologies Quantum Random Number Generator Product and Services

Table 89. Quside Technologies Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Quside Technologies Recent Developments/Updates

Table 91. Quside Technologies Competitive Strengths & Weaknesses

Table 92. EYL Inc. Basic Information, Manufacturing Base and Competitors

Table 93. EYL Inc. Major Business

Table 94. EYL Inc. Quantum Random Number Generator Product and Services

Table 95. EYL Inc. Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. EYL Inc. Recent Developments/Updates

Table 97. EYL Inc. Competitive Strengths & Weaknesses

Table 98. QNu Labs Basic Information, Manufacturing Base and Competitors

Table 99. QNu Labs Major Business

Table 100. QNu Labs Quantum Random Number Generator Product and Services

Table 101. QNu Labs Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. QNu Labs Recent Developments/Updates

Table 103. QNu Labs Competitive Strengths & Weaknesses

Table 104. Anhui Qasky Quantum Basic Information, Manufacturing Base and Competitors

Table 105. Anhui Qasky Quantum Major Business

Table 106. Anhui Qasky Quantum Quantum Random Number Generator Product and Services

Table 107. Anhui Qasky Quantum Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Anhui Qasky Quantum Recent Developments/Updates

Table 109. Anhui Qasky Quantum Competitive Strengths & Weaknesses

Table 110. Zhejiang Quantum Technologies Basic Information, Manufacturing Base and

Competitors

Table 111. Zhejiang Quantum Technologies Major Business

Table 112. Zhejiang Quantum Technologies Quantum Random Number Generator Product and Services

Table 113. Zhejiang Quantum Technologies Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Zhejiang Quantum Technologies Recent Developments/Updates

Table 115. Zhejiang Quantum Technologies Competitive Strengths & Weaknesses

Table 116. Shanghai Xuntai Quantum Basic Information, Manufacturing Base and Competitors

Table 117. Shanghai Xuntai Quantum Major Business

Table 118. Shanghai Xuntai Quantum Quantum Random Number Generator Product and Services

Table 119. Shanghai Xuntai Quantum Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Shanghai Xuntai Quantum Recent Developments/Updates

Table 121. Shanghai Xuntai Quantum Competitive Strengths & Weaknesses

Table 122. Hefei Guizhen Chip Basic Information, Manufacturing Base and Competitors

Table 123. Hefei Guizhen Chip Major Business

Table 124. Hefei Guizhen Chip Quantum Random Number Generator Product and Services

Table 125. Hefei Guizhen Chip Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Hefei Guizhen Chip Recent Developments/Updates

Table 127. Hefei Guizhen Chip Competitive Strengths & Weaknesses

Table 128. S-Fifteen Instruments Basic Information, Manufacturing Base and Competitors

Table 129. S-Fifteen Instruments Major Business

Table 130. S-Fifteen Instruments Quantum Random Number Generator Product and Services

Table 131. S-Fifteen Instruments Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. S-Fifteen Instruments Recent Developments/Updates

Table 133. S-Fifteen Instruments Competitive Strengths & Weaknesses

Table 134. Micro Photon Devices Basic Information, Manufacturing Base and

Competitors

Table 135. Micro Photon Devices Major Business

Table 136. Micro Photon Devices Quantum Random Number Generator Product and Services

Table 137. Micro Photon Devices Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Micro Photon Devices Recent Developments/Updates

Table 139. Micro Photon Devices Competitive Strengths & Weaknesses

Table 140. Crypta Labs Basic Information, Manufacturing Base and Competitors

Table 141. Crypta Labs Major Business

Table 142. Crypta Labs Quantum Random Number Generator Product and Services

Table 143. Crypta Labs Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Crypta Labs Recent Developments/Updates

Table 145. Crypta Labs Competitive Strengths & Weaknesses

Table 146. Quantum Dice Basic Information, Manufacturing Base and Competitors

Table 147. Quantum Dice Major Business

Table 148. Quantum Dice Quantum Random Number Generator Product and Services

Table 149. Quantum Dice Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Quantum Dice Recent Developments/Updates

Table 151. Quantum Dice Competitive Strengths & Weaknesses

Table 152. ThinkQuantum Basic Information, Manufacturing Base and Competitors

Table 153. ThinkQuantum Major Business

Table 154. ThinkQuantum Quantum Random Number Generator Product and Services

Table 155. ThinkQuantum Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. ThinkQuantum Recent Developments/Updates

Table 157. ThinkQuantum Competitive Strengths & Weaknesses

Table 158. Quantum Computing Inc. Basic Information, Manufacturing Base and Competitors

Table 159. Quantum Computing Inc. Major Business

Table 160. Quantum Computing Inc. Quantum Random Number Generator Product and Services

Table 161. Quantum Computing Inc. Quantum Random Number Generator Production

(Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Quantum Computing Inc. Recent Developments/Updates

Table 163. Quantum Computing Inc. Competitive Strengths & Weaknesses

Table 164. Taqbit Labs Basic Information, Manufacturing Base and Competitors

Table 165. Taqbit Labs Major Business

Table 166. Taqbit Labs Quantum Random Number Generator Product and Services

Table 167. Taqbit Labs Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Taqbit Labs Recent Developments/Updates

Table 169. Taqbit Labs Competitive Strengths & Weaknesses

Table 170. Elmos Semiconductor Basic Information, Manufacturing Base and Competitors

Table 171. Elmos Semiconductor Major Business

Table 172. Elmos Semiconductor Quantum Random Number Generator Product and Services

Table 173. Elmos Semiconductor Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 174. Elmos Semiconductor Recent Developments/Updates

Table 175. Elmos Semiconductor Competitive Strengths & Weaknesses

Table 176. TuringQ Basic Information, Manufacturing Base and Competitors

Table 177. TuringQ Major Business

Table 178. TuringQ Quantum Random Number Generator Product and Services

Table 179. TuringQ Quantum Random Number Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 180. TuringQ Recent Developments/Updates

Table 181. TuringQ Competitive Strengths & Weaknesses

Table 182. Global Key Players of Quantum Random Number Generator Upstream (Raw Materials)

Table 183. Global Quantum Random Number Generator Typical Customers

Table 184. Quantum Random Number Generator Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Quantum Random Number Generator Picture

Figure 2. World Quantum Random Number Generator Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Quantum Random Number Generator Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Quantum Random Number Generator Production (2021-2032) & (Units)

Figure 5. World Quantum Random Number Generator Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Quantum Random Number Generator Production Value Market Share by Region (2021-2032)

Figure 7. World Quantum Random Number Generator Production Market Share by Region (2021-2032)

Figure 8. North America Quantum Random Number Generator Production (2021-2032) & (Units)

Figure 9. Europe Quantum Random Number Generator Production (2021-2032) & (Units)

Figure 10. China Quantum Random Number Generator Production (2021-2032) & (Units)

Figure 11. Japan Quantum Random Number Generator Production (2021-2032) & (Units)

Figure 12. Quantum Random Number Generator Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Quantum Random Number Generator Consumption (2021-2032) & (Units)

Figure 15. World Quantum Random Number Generator Consumption Market Share by Region (2021-2032)

Figure 16. United States Quantum Random Number Generator Consumption (2021-2032) & (Units)

Figure 17. China Quantum Random Number Generator Consumption (2021-2032) & (Units)

Figure 18. Europe Quantum Random Number Generator Consumption (2021-2032) & (Units)

Figure 19. Japan Quantum Random Number Generator Consumption (2021-2032) & (Units)

Figure 20. South Korea Quantum Random Number Generator Consumption

(2021-2032) & (Units)

Figure 21. ASEAN Quantum Random Number Generator Consumption (2021-2032) & (Units)

Figure 22. India Quantum Random Number Generator Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Quantum Random Number Generator by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Quantum Random Number Generator Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Quantum Random Number Generator Markets in 2025

Figure 26. United States VS China: Quantum Random Number Generator Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Quantum Random Number Generator Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Quantum Random Number Generator Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Quantum Random Number Generator Production Market Share 2025

Figure 30. China Based Manufacturers Quantum Random Number Generator Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Quantum Random Number Generator Production Market Share 2025

Figure 32. World Quantum Random Number Generator Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Quantum Random Number Generator Production Value Market Share by Type in 2025

Figure 34. QRNG Chip

Figure 35. QRNG Module

Figure 36. World Quantum Random Number Generator Production Market Share by Type (2021-2032)

Figure 37. World Quantum Random Number Generator Production Value Market Share by Type (2021-2032)

Figure 38. World Quantum Random Number Generator Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Quantum Random Number Generator Production Value by Interface, (USD Million), 2021 & 2025 & 2032

Figure 40. World Quantum Random Number Generator Production Value Market Share by Interface in 2025

Figure 41. USB Interface

Figure 42. PCIe Interface

Figure 43. Other

Figure 44. World Quantum Random Number Generator Production Market Share by Interface (2021-2032)

Figure 45. World Quantum Random Number Generator Production Value Market Share by Interface (2021-2032)

Figure 46. World Quantum Random Number Generator Average Price by Interface (2021-2032) & (US\$/Unit)

Figure 47. World Quantum Random Number Generator Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World Quantum Random Number Generator Production Value Market Share by Application in 2025

Figure 49. Key Generation

Figure 50. Hardware Security Modules

Figure 51. Other

Figure 52. World Quantum Random Number Generator Production Market Share by Application (2021-2032)

Figure 53. World Quantum Random Number Generator Production Value Market Share by Application (2021-2032)

Figure 54. World Quantum Random Number Generator Average Price by Application (2021-2032) & (US\$/Unit)

Figure 55. Quantum Random Number Generator Industry Chain

Figure 56. Quantum Random Number Generator Procurement Model

Figure 57. Quantum Random Number Generator Sales Model

Figure 58. Quantum Random Number Generator Sales Channels, Direct Sales, and Distribution

Figure 59. Methodology

Figure 60. Research Process and Data Source

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