

Global Time-Correlated Single Photon Counter Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD5994AD65A5EN.html>

Date: June 2026

Pages: 119

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

ID: GD5994AD65A5EN

Abstracts

The global Time-Correlated Single Photon Counter market size is expected to reach \$ 632 million by 2032, rising at a market growth of 21.5% CAGR during the forecast period (2026-2032).

Time-Correlated Single Photon Counting (TCSPC) is a photon detection and time-resolution system designed for the high-precision measurement of ultra-weak light signals. Its core principle involves performing statistical correlation analysis on the arrival times of individual photons at a detector; by acquiring a large number of repetitive samples to construct a distribution of photon arrival times, it achieves time measurements with picosecond-level or even higher precision. A typical TCSPC system consists of a single-photon detector, a Time-to-Digital Converter (TDC) or Time-to-Amplitude Converter (TAC), a synchronization trigger module, and data acquisition and analysis software. Widely applied in fields such as fluorescence lifetime imaging (FLIM), LiDAR, quantum communication and quantum optics experiments, time-resolved spectroscopy, and biomedical imaging, it serves as a critical foundational instrument in advanced optoelectronic measurement and quantum photonics research. In 2025, projected sales volume stands at 2,500 units, with an average selling price of \$67,000, a total production capacity of 3,000 units, and a gross profit margin of 44%.

This report studies the global Time-Correlated Single Photon Counter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Time-Correlated Single Photon Counter 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 Time-

Correlated Single Photon Counter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Time-Related Single Photon Counter total production and demand, 2021-2032, (K Units)

Global Time-Related Single Photon Counter total production value, 2021-2032, (USD Million)

Global Time-Related Single Photon Counter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Time-Related Single Photon Counter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Time-Related Single Photon Counter domestic production, consumption, key domestic manufacturers and share

Global Time-Related Single Photon Counter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Time-Related Single Photon Counter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Time-Related Single Photon Counter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Time-Related Single Photon Counter 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 Xanadu, PsiQuantum, TuringQ Co.,Ltd., Hefei Guizhen Chip Technology Co., Ltd., Beijing QBoson Quantum Technology Co.,Ltd., QuiX Quantum, Quandela, Photonic, C*Core Technology Co., Ltd., Anhui Qasky Quantum Technology Co., Ltd., 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 Time-Related Single Photon Counter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K 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 Time-Correlated Single Photon Counter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Time-Correlated Single Photon Counter Market, Segmentation by Type:

TAC-based TCSPC

TDC-based TCSPC

Hybrid TAC/TDC Architecture

Global Time-Correlated Single Photon Counter Market, Segmentation by Channel Count:

Single-channel TCSPC

Dual-channel TCSPC

Multi-channel TCSPC

Global Time-Correlated Single Photon Counter Market, Segmentation by Application
Focus:

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Global Time-Correlated Single Photon Counter Market, Segmentation by Application:

Quantum Key Distribution

Quantum Direct Communication

Financial Quantification

Artificial Intelligence

Companies Profiled:

Xanadu

PsiQuantum

TuringQ Co.,Ltd.

Hefei Guizhen Chip Technology Co., Ltd.

Beijing QBoson Quantum Technology Co.,Ltd.

QuiX Quantum

Quandela

Photonic

C*Core Technology Co., Ltd.

Anhui Qasky Quantum Technology Co., Ltd.

QuantumCTek Co., Ltd.

Key Questions Answered:

1. How big is the global Time-Correlated Single Photon Counter market?
2. What is the demand of the global Time-Correlated Single Photon Counter market?
3. What is the year over year growth of the global Time-Correlated Single Photon Counter market?
4. What is the production and production value of the global Time-Correlated Single Photon Counter market?
5. Who are the key producers in the global Time-Correlated Single Photon Counter market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Time-Correlated Single Photon Counter Introduction
- 1.2 World Time-Correlated Single Photon Counter Supply & Forecast
 - 1.2.1 World Time-Correlated Single Photon Counter Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Time-Correlated Single Photon Counter Production (2021-2032)
 - 1.2.3 World Time-Correlated Single Photon Counter Pricing Trends (2021-2032)
- 1.3 World Time-Correlated Single Photon Counter Production by Region (Based on Production Site)
 - 1.3.1 World Time-Correlated Single Photon Counter Production Value by Region (2021-2032)
 - 1.3.2 World Time-Correlated Single Photon Counter Production by Region (2021-2032)
 - 1.3.3 World Time-Correlated Single Photon Counter Average Price by Region (2021-2032)
 - 1.3.4 North America Time-Correlated Single Photon Counter Production (2021-2032)
 - 1.3.5 Europe Time-Correlated Single Photon Counter Production (2021-2032)
 - 1.3.6 China Time-Correlated Single Photon Counter Production (2021-2032)
 - 1.3.7 Japan Time-Correlated Single Photon Counter Production (2021-2032)
 - 1.3.8 South Korea Time-Correlated Single Photon Counter Production (2021-2032)
 - 1.3.9 Southeast Asia Time-Correlated Single Photon Counter Production (2021-2032)
 - 1.3.10 China Taiwan Time-Correlated Single Photon Counter Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Time-Correlated Single Photon Counter Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Time-Correlated Single Photon Counter Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Time-Correlated Single Photon Counter Demand (2021-2032)
- 2.2 World Time-Correlated Single Photon Counter Consumption by Region
 - 2.2.1 World Time-Correlated Single Photon Counter Consumption by Region (2021-2026)
 - 2.2.2 World Time-Correlated Single Photon Counter Consumption Forecast by Region (2027-2032)
- 2.3 United States Time-Correlated Single Photon Counter Consumption (2021-2032)
- 2.4 China Time-Correlated Single Photon Counter Consumption (2021-2032)

- 2.5 Europe Time-Correlated Single Photon Counter Consumption (2021-2032)
- 2.6 Japan Time-Correlated Single Photon Counter Consumption (2021-2032)
- 2.7 South Korea Time-Correlated Single Photon Counter Consumption (2021-2032)
- 2.8 ASEAN Time-Correlated Single Photon Counter Consumption (2021-2032)
- 2.9 India Time-Correlated Single Photon Counter Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Time-Correlated Single Photon Counter Production Value by Manufacturer (2021-2026)
- 3.2 World Time-Correlated Single Photon Counter Production by Manufacturer (2021-2026)
- 3.3 World Time-Correlated Single Photon Counter Average Price by Manufacturer (2021-2026)
- 3.4 Time-Correlated Single Photon Counter Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Time-Correlated Single Photon Counter Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Time-Correlated Single Photon Counter in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Time-Correlated Single Photon Counter in 2025
- 3.6 Time-Correlated Single Photon Counter Market: Overall Company Footprint Analysis
 - 3.6.1 Time-Correlated Single Photon Counter Market: Region Footprint
 - 3.6.2 Time-Correlated Single Photon Counter Market: Company Product Type Footprint
 - 3.6.3 Time-Correlated Single Photon Counter 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: Time-Correlated Single Photon Counter Production Value Comparison

4.1.1 United States VS China: Time-Correlated Single Photon Counter Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Time-Correlated Single Photon Counter Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Time-Correlated Single Photon Counter Production Comparison

4.2.1 United States VS China: Time-Correlated Single Photon Counter Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Time-Correlated Single Photon Counter Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Time-Correlated Single Photon Counter Consumption Comparison

4.3.1 United States VS China: Time-Correlated Single Photon Counter Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Time-Correlated Single Photon Counter Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Time-Correlated Single Photon Counter Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Time-Correlated Single Photon Counter Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Time-Correlated Single Photon Counter Production Value (2021-2026)

4.4.3 United States Based Manufacturers Time-Correlated Single Photon Counter Production (2021-2026)

4.5 China Based Time-Correlated Single Photon Counter Manufacturers and Market Share

4.5.1 China Based Time-Correlated Single Photon Counter Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Time-Correlated Single Photon Counter Production Value (2021-2026)

4.5.3 China Based Manufacturers Time-Correlated Single Photon Counter Production (2021-2026)

4.6 Rest of World Based Time-Correlated Single Photon Counter Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Time-Correlated Single Photon Counter Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Time-Correlated Single Photon Counter Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Time-Correlated Single Photon Counter

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Time-Correlated Single Photon Counter Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 TAC-based TCSPC

5.2.2 TDC-based TCSPC

5.2.3 Hybrid TAC/TDC Architecture

5.3 Market Segment by Type

5.3.1 World Time-Correlated Single Photon Counter Production by Type (2021-2032)

5.3.2 World Time-Correlated Single Photon Counter Production Value by Type (2021-2032)

5.3.3 World Time-Correlated Single Photon Counter Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CHANNEL COUNT

6.1 World Time-Correlated Single Photon Counter Market Size Overview by Channel Count: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Channel Count

6.2.1 Single-channel TCSPC

6.2.2 Dual-channel TCSPC

6.2.3 Multi-channel TCSPC

6.3 Market Segment by Channel Count

6.3.1 World Time-Correlated Single Photon Counter Production by Channel Count (2021-2032)

6.3.2 World Time-Correlated Single Photon Counter Production Value by Channel Count (2021-2032)

6.3.3 World Time-Correlated Single Photon Counter Average Price by Channel Count (2021-2032)

7 MARKET ANALYSIS BY APPLICATION FOCUS

7.1 World Time-Correlated Single Photon Counter Market Size Overview by Application Focus: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application Focus

7.2.1 Universal Quantum Computing

- 7.2.2 Quantum Communication & Security
- 7.2.3 Research & Industrial Prototyping
- 7.3 Market Segment by Application Focus
 - 7.3.1 World Time-Correlated Single Photon Counter Production by Application Focus (2021-2032)
 - 7.3.2 World Time-Correlated Single Photon Counter Production Value by Application Focus (2021-2032)
 - 7.3.3 World Time-Correlated Single Photon Counter Average Price by Application Focus (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Time-Correlated Single Photon Counter Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Quantum Key Distribution
 - 8.2.2 Quantum Direct Communication
 - 8.2.3 Financial Quantification
 - 8.2.4 Artificial Intelligence
- 8.3 Market Segment by Application
 - 8.3.1 World Time-Correlated Single Photon Counter Production by Application (2021-2032)
 - 8.3.2 World Time-Correlated Single Photon Counter Production Value by Application (2021-2032)
 - 8.3.3 World Time-Correlated Single Photon Counter Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Xanadu
 - 9.1.1 Xanadu Details
 - 9.1.2 Xanadu Major Business
 - 9.1.3 Xanadu Time-Correlated Single Photon Counter Product and Services
 - 9.1.4 Xanadu Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Xanadu Recent Developments/Updates
 - 9.1.6 Xanadu Competitive Strengths & Weaknesses
- 9.2 PsiQuantum
 - 9.2.1 PsiQuantum Details

9.2.2 PsiQuantum Major Business

9.2.3 PsiQuantum Time-Correlated Single Photon Counter Product and Services

9.2.4 PsiQuantum Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 PsiQuantum Recent Developments/Updates

9.2.6 PsiQuantum Competitive Strengths & Weaknesses

9.3 TuringQ Co.,Ltd.

9.3.1 TuringQ Co.,Ltd. Details

9.3.2 TuringQ Co.,Ltd. Major Business

9.3.3 TuringQ Co.,Ltd. Time-Correlated Single Photon Counter Product and Services

9.3.4 TuringQ Co.,Ltd. Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 TuringQ Co.,Ltd. Recent Developments/Updates

9.3.6 TuringQ Co.,Ltd. Competitive Strengths & Weaknesses

9.4 Hefei Guizhen Chip Technology Co., Ltd.

9.4.1 Hefei Guizhen Chip Technology Co., Ltd. Details

9.4.2 Hefei Guizhen Chip Technology Co., Ltd. Major Business

9.4.3 Hefei Guizhen Chip Technology Co., Ltd. Time-Correlated Single Photon Counter Product and Services

9.4.4 Hefei Guizhen Chip Technology Co., Ltd. Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Hefei Guizhen Chip Technology Co., Ltd. Recent Developments/Updates

9.4.6 Hefei Guizhen Chip Technology Co., Ltd. Competitive Strengths & Weaknesses

9.5 Beijing QBoson Quantum Technology Co.,Ltd.

9.5.1 Beijing QBoson Quantum Technology Co.,Ltd. Details

9.5.2 Beijing QBoson Quantum Technology Co.,Ltd. Major Business

9.5.3 Beijing QBoson Quantum Technology Co.,Ltd. Time-Correlated Single Photon Counter Product and Services

9.5.4 Beijing QBoson Quantum Technology Co.,Ltd. Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Beijing QBoson Quantum Technology Co.,Ltd. Recent Developments/Updates

9.5.6 Beijing QBoson Quantum Technology Co.,Ltd. Competitive Strengths & Weaknesses

9.6 QuiX Quantum

9.6.1 QuiX Quantum Details

9.6.2 QuiX Quantum Major Business

9.6.3 QuiX Quantum Time-Correlated Single Photon Counter Product and Services

9.6.4 QuiX Quantum Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 QuiX Quantum Recent Developments/Updates
- 9.6.6 QuiX Quantum Competitive Strengths & Weaknesses
- 9.7 Quandela
 - 9.7.1 Quandela Details
 - 9.7.2 Quandela Major Business
 - 9.7.3 Quandela Time-Correlated Single Photon Counter Product and Services
 - 9.7.4 Quandela Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Quandela Recent Developments/Updates
 - 9.7.6 Quandela Competitive Strengths & Weaknesses
- 9.8 Photonic
 - 9.8.1 Photonic Details
 - 9.8.2 Photonic Major Business
 - 9.8.3 Photonic Time-Correlated Single Photon Counter Product and Services
 - 9.8.4 Photonic Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Photonic Recent Developments/Updates
 - 9.8.6 Photonic Competitive Strengths & Weaknesses
- 9.9 C*Core Technology Co., Ltd.
 - 9.9.1 C*Core Technology Co., Ltd. Details
 - 9.9.2 C*Core Technology Co., Ltd. Major Business
 - 9.9.3 C*Core Technology Co., Ltd. Time-Correlated Single Photon Counter Product and Services
 - 9.9.4 C*Core Technology Co., Ltd. Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 C*Core Technology Co., Ltd. Recent Developments/Updates
 - 9.9.6 C*Core Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.10 Anhui Qasky Quantum Technology Co., Ltd.
 - 9.10.1 Anhui Qasky Quantum Technology Co., Ltd. Details
 - 9.10.2 Anhui Qasky Quantum Technology Co., Ltd. Major Business
 - 9.10.3 Anhui Qasky Quantum Technology Co., Ltd. Time-Correlated Single Photon Counter Product and Services
 - 9.10.4 Anhui Qasky Quantum Technology Co., Ltd. Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Anhui Qasky Quantum Technology Co., Ltd. Recent Developments/Updates
 - 9.10.6 Anhui Qasky Quantum Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.11 QuantumCTek Co., Ltd.
 - 9.11.1 QuantumCTek Co., Ltd. Details

- 9.11.2 QuantumCTek Co., Ltd. Major Business
- 9.11.3 QuantumCTek Co., Ltd. Time-Correlated Single Photon Counter Product and Services
- 9.11.4 QuantumCTek Co., Ltd. Time-Correlated Single Photon Counter Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 QuantumCTek Co., Ltd. Recent Developments/Updates
- 9.11.6 QuantumCTek Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Time-Correlated Single Photon Counter Industry Chain
- 10.2 Time-Correlated Single Photon Counter Upstream Analysis
 - 10.2.1 Time-Correlated Single Photon Counter Core Raw Materials
 - 10.2.2 Main Manufacturers of Time-Correlated Single Photon Counter Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Time-Correlated Single Photon Counter Production Mode
- 10.6 Time-Correlated Single Photon Counter Procurement Model
- 10.7 Time-Correlated Single Photon Counter Industry Sales Model and Sales Channels
 - 10.7.1 Time-Correlated Single Photon Counter Sales Model
 - 10.7.2 Time-Correlated Single Photon Counter Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Time-Correlated Single Photon Counter Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Time-Correlated Single Photon Counter Production Value by Region (2021-2026) & (USD Million)

Table 3. World Time-Correlated Single Photon Counter Production Value by Region (2027-2032) & (USD Million)

Table 4. World Time-Correlated Single Photon Counter Production Value Market Share by Region (2021-2026)

Table 5. World Time-Correlated Single Photon Counter Production Value Market Share by Region (2027-2032)

Table 6. World Time-Correlated Single Photon Counter Production by Region (2021-2026) & (K Units)

Table 7. World Time-Correlated Single Photon Counter Production by Region (2027-2032) & (K Units)

Table 8. World Time-Correlated Single Photon Counter Production Market Share by Region (2021-2026)

Table 9. World Time-Correlated Single Photon Counter Production Market Share by Region (2027-2032)

Table 10. World Time-Correlated Single Photon Counter Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Time-Correlated Single Photon Counter Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Time-Correlated Single Photon Counter Major Market Trends

Table 13. World Time-Correlated Single Photon Counter Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Time-Correlated Single Photon Counter Consumption by Region (2021-2026) & (K Units)

Table 15. World Time-Correlated Single Photon Counter Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Time-Correlated Single Photon Counter Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Time-Correlated Single Photon Counter Producers in 2025

Table 18. World Time-Correlated Single Photon Counter Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Time-Correlated Single Photon Counter Producers in 2025

Table 20. World Time-Correlated Single Photon Counter Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Time-Correlated Single Photon Counter Company Evaluation Quadrant

Table 22. World Time-Correlated Single Photon Counter Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Time-Correlated Single Photon Counter Production Site of Key Manufacturer

Table 24. Time-Correlated Single Photon Counter Market: Company Product Type Footprint

Table 25. Time-Correlated Single Photon Counter Market: Company Product Application Footprint

Table 26. Time-Correlated Single Photon Counter Competitive Factors

Table 27. Time-Correlated Single Photon Counter New Entrant and Capacity Expansion Plans

Table 28. Time-Correlated Single Photon Counter Mergers & Acquisitions Activity

Table 29. United States VS China Time-Correlated Single Photon Counter Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Time-Correlated Single Photon Counter Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Time-Correlated Single Photon Counter Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Time-Correlated Single Photon Counter Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Time-Correlated Single Photon Counter Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Time-Correlated Single Photon Counter Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Time-Correlated Single Photon Counter Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Time-Correlated Single Photon Counter Production Market Share (2021-2026)

Table 37. China Based Time-Correlated Single Photon Counter Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Time-Correlated Single Photon Counter Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Time-Correlated Single Photon Counter

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Time-Correlated Single Photon Counter Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Time-Correlated Single Photon Counter Production Market Share (2021-2026)

Table 42. Rest of World Based Time-Correlated Single Photon Counter Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Time-Correlated Single Photon Counter Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Time-Correlated Single Photon Counter Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Time-Correlated Single Photon Counter Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Time-Correlated Single Photon Counter Production Market Share (2021-2026)

Table 47. World Time-Correlated Single Photon Counter Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Time-Correlated Single Photon Counter Production by Type (2021-2026) & (K Units)

Table 49. World Time-Correlated Single Photon Counter Production by Type (2027-2032) & (K Units)

Table 50. World Time-Correlated Single Photon Counter Production Value by Type (2021-2026) & (USD Million)

Table 51. World Time-Correlated Single Photon Counter Production Value by Type (2027-2032) & (USD Million)

Table 52. World Time-Correlated Single Photon Counter Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Time-Correlated Single Photon Counter Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Time-Correlated Single Photon Counter Production Value by Channel Count, (USD Million), 2021 & 2025 & 2032

Table 55. World Time-Correlated Single Photon Counter Production by Channel Count (2021-2026) & (K Units)

Table 56. World Time-Correlated Single Photon Counter Production by Channel Count (2027-2032) & (K Units)

Table 57. World Time-Correlated Single Photon Counter Production Value by Channel Count (2021-2026) & (USD Million)

Table 58. World Time-Correlated Single Photon Counter Production Value by Channel Count (2027-2032) & (USD Million)

Table 59. World Time-Correlated Single Photon Counter Average Price by Channel Count (2021-2026) & (US\$/Unit)

Table 60. World Time-Correlated Single Photon Counter Average Price by Channel Count (2027-2032) & (US\$/Unit)

Table 61. World Time-Correlated Single Photon Counter Production Value by Application Focus, (USD Million), 2021 & 2025 & 2032

Table 62. World Time-Correlated Single Photon Counter Production by Application Focus (2021-2026) & (K Units)

Table 63. World Time-Correlated Single Photon Counter Production by Application Focus (2027-2032) & (K Units)

Table 64. World Time-Correlated Single Photon Counter Production Value by Application Focus (2021-2026) & (USD Million)

Table 65. World Time-Correlated Single Photon Counter Production Value by Application Focus (2027-2032) & (USD Million)

Table 66. World Time-Correlated Single Photon Counter Average Price by Application Focus (2021-2026) & (US\$/Unit)

Table 67. World Time-Correlated Single Photon Counter Average Price by Application Focus (2027-2032) & (US\$/Unit)

Table 68. World Time-Correlated Single Photon Counter Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Time-Correlated Single Photon Counter Production by Application (2021-2026) & (K Units)

Table 70. World Time-Correlated Single Photon Counter Production by Application (2027-2032) & (K Units)

Table 71. World Time-Correlated Single Photon Counter Production Value by Application (2021-2026) & (USD Million)

Table 72. World Time-Correlated Single Photon Counter Production Value by Application (2027-2032) & (USD Million)

Table 73. World Time-Correlated Single Photon Counter Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Time-Correlated Single Photon Counter Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Xanadu Basic Information, Manufacturing Base and Competitors

Table 76. Xanadu Major Business

Table 77. Xanadu Time-Correlated Single Photon Counter Product and Services

Table 78. Xanadu Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Xanadu Recent Developments/Updates

Table 80. Xanadu Competitive Strengths & Weaknesses

Table 81. PsiQuantum Basic Information, Manufacturing Base and Competitors

Table 82. PsiQuantum Major Business

Table 83. PsiQuantum Time-Correlated Single Photon Counter Product and Services

Table 84. PsiQuantum Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. PsiQuantum Recent Developments/Updates

Table 86. PsiQuantum Competitive Strengths & Weaknesses

Table 87. TuringQ Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. TuringQ Co.,Ltd. Major Business

Table 89. TuringQ Co.,Ltd. Time-Correlated Single Photon Counter Product and Services

Table 90. TuringQ Co.,Ltd. Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. TuringQ Co.,Ltd. Recent Developments/Updates

Table 92. TuringQ Co.,Ltd. Competitive Strengths & Weaknesses

Table 93. Hefei Guizhen Chip Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Hefei Guizhen Chip Technology Co., Ltd. Major Business

Table 95. Hefei Guizhen Chip Technology Co., Ltd. Time-Correlated Single Photon Counter Product and Services

Table 96. Hefei Guizhen Chip Technology Co., Ltd. Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Hefei Guizhen Chip Technology Co., Ltd. Recent Developments/Updates

Table 98. Hefei Guizhen Chip Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Beijing QBoson Quantum Technology Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. Beijing QBoson Quantum Technology Co.,Ltd. Major Business

Table 101. Beijing QBoson Quantum Technology Co.,Ltd. Time-Correlated Single Photon Counter Product and Services

Table 102. Beijing QBoson Quantum Technology Co.,Ltd. Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Beijing QBoson Quantum Technology Co.,Ltd. Recent Developments/Updates

Table 104. Beijing QBoson Quantum Technology Co.,Ltd. Competitive Strengths & Weaknesses

Table 105. QuiX Quantum Basic Information, Manufacturing Base and Competitors

Table 106. QuiX Quantum Major Business

Table 107. QuiX Quantum Time-Correlated Single Photon Counter Product and Services

Table 108. QuiX Quantum Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. QuiX Quantum Recent Developments/Updates

Table 110. QuiX Quantum Competitive Strengths & Weaknesses

Table 111. Quandela Basic Information, Manufacturing Base and Competitors

Table 112. Quandela Major Business

Table 113. Quandela Time-Correlated Single Photon Counter Product and Services

Table 114. Quandela Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Quandela Recent Developments/Updates

Table 116. Quandela Competitive Strengths & Weaknesses

Table 117. Photonic Basic Information, Manufacturing Base and Competitors

Table 118. Photonic Major Business

Table 119. Photonic Time-Correlated Single Photon Counter Product and Services

Table 120. Photonic Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Photonic Recent Developments/Updates

Table 122. Photonic Competitive Strengths & Weaknesses

Table 123. C*Core Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. C*Core Technology Co., Ltd. Major Business

Table 125. C*Core Technology Co., Ltd. Time-Correlated Single Photon Counter Product and Services

Table 126. C*Core Technology Co., Ltd. Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. C*Core Technology Co., Ltd. Recent Developments/Updates

Table 128. C*Core Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Anhui Qasky Quantum Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. Anhui Qasky Quantum Technology Co., Ltd. Major Business

Table 131. Anhui Qasky Quantum Technology Co., Ltd. Time-Correlated Single Photon Counter Product and Services

Table 132. Anhui Qasky Quantum Technology Co., Ltd. Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Anhui Qasky Quantum Technology Co., Ltd. Recent Developments/Updates

Table 134. Anhui Qasky Quantum Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 135. QuantumCTek Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. QuantumCTek Co., Ltd. Major Business

Table 137. QuantumCTek Co., Ltd. Time-Correlated Single Photon Counter Product and Services

Table 138. QuantumCTek Co., Ltd. Time-Correlated Single Photon Counter Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. QuantumCTek Co., Ltd. Recent Developments/Updates

Table 140. QuantumCTek Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Global Key Players of Time-Correlated Single Photon Counter Upstream (Raw Materials)

Table 142. Global Time-Correlated Single Photon Counter Typical Customers

Table 143. Time-Correlated Single Photon Counter Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Time-Correlated Single Photon Counter Picture

Figure 2. World Time-Correlated Single Photon Counter Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Time-Correlated Single Photon Counter Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Time-Correlated Single Photon Counter Production (2021-2032) & (K Units)

Figure 5. World Time-Correlated Single Photon Counter Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Time-Correlated Single Photon Counter Production Value Market Share by Region (2021-2032)

Figure 7. World Time-Correlated Single Photon Counter Production Market Share by Region (2021-2032)

Figure 8. North America Time-Correlated Single Photon Counter Production (2021-2032) & (K Units)

Figure 9. Europe Time-Correlated Single Photon Counter Production (2021-2032) & (K Units)

Figure 10. China Time-Correlated Single Photon Counter Production (2021-2032) & (K Units)

Figure 11. Japan Time-Correlated Single Photon Counter Production (2021-2032) & (K Units)

Figure 12. South Korea Time-Correlated Single Photon Counter Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Time-Correlated Single Photon Counter Production (2021-2032) & (K Units)

Figure 14. China Taiwan Time-Correlated Single Photon Counter Production (2021-2032) & (K Units)

Figure 15. Time-Correlated Single Photon Counter Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Time-Correlated Single Photon Counter Consumption (2021-2032) & (K Units)

Figure 18. World Time-Correlated Single Photon Counter Consumption Market Share by Region (2021-2032)

Figure 19. United States Time-Correlated Single Photon Counter Consumption (2021-2032) & (K Units)

Figure 20. China Time-Correlated Single Photon Counter Consumption (2021-2032) & (K Units)

Figure 21. Europe Time-Correlated Single Photon Counter Consumption (2021-2032) & (K Units)

Figure 22. Japan Time-Correlated Single Photon Counter Consumption (2021-2032) & (K Units)

Figure 23. South Korea Time-Correlated Single Photon Counter Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Time-Correlated Single Photon Counter Consumption (2021-2032) & (K Units)

Figure 25. India Time-Correlated Single Photon Counter Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Time-Correlated Single Photon Counter by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Time-Correlated Single Photon Counter Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Time-Correlated Single Photon Counter Markets in 2025

Figure 29. United States VS China: Time-Correlated Single Photon Counter Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Time-Correlated Single Photon Counter Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Time-Correlated Single Photon Counter Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Time-Correlated Single Photon Counter Production Market Share 2025

Figure 33. China Based Manufacturers Time-Correlated Single Photon Counter Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Time-Correlated Single Photon Counter Production Market Share 2025

Figure 35. World Time-Correlated Single Photon Counter Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Time-Correlated Single Photon Counter Production Value Market Share by Type in 2025

Figure 37. TAC-based TCSPC

Figure 38. TDC-based TCSPC

Figure 39. Hybrid TAC/TDC Architecture

Figure 40. World Time-Correlated Single Photon Counter Production Market Share by Type (2021-2032)

Figure 41. World Time-Correlated Single Photon Counter Production Value Market Share by Type (2021-2032)

Figure 42. World Time-Correlated Single Photon Counter Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Time-Correlated Single Photon Counter Production Value by Channel Count, (USD Million), 2021 & 2025 & 2032

Figure 44. World Time-Correlated Single Photon Counter Production Value Market Share by Channel Count in 2025

Figure 45. Single-channel TCSPC

Figure 46. Dual-channel TCSPC

Figure 47. Multi-channel TCSPC

Figure 48. World Time-Correlated Single Photon Counter Production Market Share by Channel Count (2021-2032)

Figure 49. World Time-Correlated Single Photon Counter Production Value Market Share by Channel Count (2021-2032)

Figure 50. World Time-Correlated Single Photon Counter Average Price by Channel Count (2021-2032) & (US\$/Unit)

Figure 51. World Time-Correlated Single Photon Counter Production Value by Application Focus, (USD Million), 2021 & 2025 & 2032

Figure 52. World Time-Correlated Single Photon Counter Production Value Market Share by Application Focus in 2025

Figure 53. Universal Quantum Computing

Figure 54. Quantum Communication & Security

Figure 55. Research & Industrial Prototyping

Figure 56. World Time-Correlated Single Photon Counter Production Market Share by Application Focus (2021-2032)

Figure 57. World Time-Correlated Single Photon Counter Production Value Market Share by Application Focus (2021-2032)

Figure 58. World Time-Correlated Single Photon Counter Average Price by Application Focus (2021-2032) & (US\$/Unit)

Figure 59. World Time-Correlated Single Photon Counter Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Time-Correlated Single Photon Counter Production Value Market Share by Application in 2025

Figure 61. Quantum Key Distribution

Figure 62. Quantum Direct Communication

Figure 63. Financial Quantification

Figure 64. Artificial Intelligence

Figure 65. World Time-Correlated Single Photon Counter Production Market Share by

Application (2021-2032)

Figure 66. World Time-Correlated Single Photon Counter Production Value Market Share by Application (2021-2032)

Figure 67. World Time-Correlated Single Photon Counter Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Time-Correlated Single Photon Counter Industry Chain

Figure 69. Time-Correlated Single Photon Counter Procurement Model

Figure 70. Time-Correlated Single Photon Counter Sales Model

Figure 71. Time-Correlated Single Photon Counter Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

I would like to order

Product name: Global Time-Correlated Single Photon Counter Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/GD5994AD65A5EN.html>

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

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GD5994AD65A5EN.html>