

Global Time-Correlated Single Photon Counter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Time-Correlated Single Photon Counter market size was valued at US\$ 172 million in 2025 and is forecast to a readjusted size of US\$ 632 million by 2032 with a CAGR of 21.5% during review period.

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 is a detailed and comprehensive analysis for global Time-Correlated Single Photon Counter 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 Time-Correlated Single Photon Counter market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Time-Correlated Single Photon Counter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Time-Correlated Single Photon Counter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Time-Correlated Single Photon Counter market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Time-Correlated Single Photon Counter

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Time-Correlated Single Photon Counter 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 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.

Market Segmentation

Time-Correlated Single Photon Counter market is split by Type and by Application. For the period 2021-2032, 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

TAC-based TCSPC

TDC-based TCSPC

Hybrid TAC/TDC Architecture

Market segment by Channel Count

Single-channel TCSPC

Dual-channel TCSPC

Multi-channel TCSPC

Market segment by Application Focus

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Market segment by Application

Quantum Key Distribution

Quantum Direct Communication

Financial Quantification

Artificial Intelligence

Major players covered

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.

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:

Chapter 1, to describe Time-Correlated Single Photon Counter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Time-Correlated Single Photon Counter, with price, sales quantity, revenue, and global market share of Time-Correlated Single Photon Counter from 2021 to 2026.

Chapter 3, the Time-Correlated Single Photon Counter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Time-Correlated Single Photon Counter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Time-Correlated Single Photon Counter market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Time-Correlated Single Photon Counter.

Chapter 14 and 15, to describe Time-Correlated Single Photon Counter sales channel, distributors, customers, research findings and conclusion.

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