

Global Time-Correlated Single Photon Counter Market Growth 2026-2032

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Abstracts

The global Time-Correlated Single Photon Counter market size is predicted to grow from US\$ 163 million in 2025 to US\$ 641 million in 2032; it is expected to grow at a CAGR of 22.8% from 2026 to 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%.

United States market for Time-Correlated Single Photon Counter is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Time-Correlated Single Photon Counter is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Time-Correlated Single Photon Counter is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Time-Correlated Single Photon Counter players cover Xanadu, PsiQuantum, TuringQ Co.,Ltd., Hefei Guizhen Chip Technology Co., Ltd., Beijing QBoson Quantum Technology Co.,Ltd., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Time-Correlated Single Photon Counter Industry Forecast" looks at past sales and reviews total world Time-Correlated Single Photon Counter sales in 2025, providing a comprehensive analysis by region and market sector of projected Time-Correlated Single Photon Counter sales for 2026 through 2032. With Time-Correlated Single Photon Counter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Time-Correlated Single Photon Counter industry.

This Insight Report provides a comprehensive analysis of the global Time-Correlated Single Photon Counter landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Time-Correlated Single Photon Counter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Time-Correlated Single Photon Counter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Time-Correlated Single Photon Counter and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Time-Correlated Single Photon Counter.

This report presents a comprehensive overview, market shares, and growth opportunities of Time-Correlated Single Photon Counter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

TAC-based TCSPC

TDC-based TCSPC

Hybrid TAC/TDC Architecture

Segmentation by Channel Count:

Single-channel TCSPC

Dual-channel TCSPC

Multi-channel TCSPC

Segmentation by Application Focus:

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Segmentation by Application:

Quantum Key Distribution

Quantum Direct Communication

Financial Quantification

Artificial Intelligence

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Time-Related Single Photon Counter market?

What factors are driving Time-Correlated Single Photon Counter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Time-Correlated Single Photon Counter market opportunities vary by end market size?

How does Time-Correlated Single Photon Counter break out by Type, by Application?

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