

# Global Single-Photon Time Measurement Module 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 Single-Photon Time Measurement Module market size was valued at US\$ 74.60 million in 2025 and is forecast to a readjusted size of US\$ 138 million by 2032 with a CAGR of 8.9% during review period.

In 2025, global sales of Single-Photon Time Measurement Module reached approximately 2,060 units, with an average market price of about USD 35,194 unit, an annual production capacity of roughly 2,400 units, and an industry-average gross margin of approximately 29%.

Single-Photon Time Measurement Modules are high-precision electronic measurement instruments designed to capture, digitize, timestamp, histogram and analyze the arrival time of individual photon events. They are typically supplied as benchtop units, USB or Ethernet modules, PCIe/PXIe cards, NIM or rack-mounted electronics, embedded acquisition boards, or timing units integrated into spectroscopy and quantum measurement platforms. These modules receive electrical pulses from single-photon detectors such as SPADs, PMTs, MCP-PMTs, SNSPDs and SiPMs, and process the signals through time-correlated single-photon counting, time tagging, time-to-digital conversion, time-tagged time-resolved acquisition, histogramming, coincidence counting, correlation analysis and multi-channel scaling. Key specifications include timing resolution, timing jitter, dead time, maximum count rate, number of input channels, synchronization capability, input signal compatibility, data throughput, hardware interface and software/API support. They are mainly used in fluorescence lifetime measurement, FLIM, time-resolved spectroscopy, quantum optics, quantum communication, single-photon LiDAR, satellite laser ranging, detector characterization

and advanced photonic testing.

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

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

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

Global Single-Photon Time Measurement Module market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Single-Photon Time Measurement Module
- 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 Single-Photon Time Measurement Module

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 PicoQuant, Becker & Hickl, Swabian Instruments, ID Quantique, qtools, HORIBA, AUREA Technology SAS, cronologic GmbH & Co. KG, CIQTEK Co., Ltd., Edinburgh Instruments, etc.

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

## Market Segmentation

Single-Photon Time Measurement Module 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

Benchtop

Embedded

### Market segment by Channel

4–8 Channel

16–32 Channel

Others

### Market segment by Application

Fluorescence Lifetime

Quantum Optics

Others

### Major players covered

PicoQuant

Becker & Hickl

Swabian Instruments

ID Quantique

qtools

HORIBA

AUREA Technology SAS

cronologic GmbH & Co. KG

CIQTEK Co., Ltd.

Edinburgh Instruments

ZOLIX INSTRUMENTS

Surface Concept

ORTEC

FAST ComTec

Eventech LTD

Photek

TEDIEL

LONTEN

Universal Quantum Devices

FLIM LABS S.r.l.

S-Fifteen Instruments

RedWave Labs

Hamamatsu Photonics

Fraunhofer HHI

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 Single-Photon Time Measurement Module product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Single-Photon Time Measurement Module competitive situation, sales

quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-Photon Time Measurement Module 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 Single-Photon Time Measurement Module 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 Single-Photon Time Measurement Module.

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

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