

Global Single-Photon Time Measurement Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-Photon Time Measurement Module market size is expected to reach \$ 138 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

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 studies the global Single-Photon Time Measurement Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Photon Time Measurement Module 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 Single-Photon Time Measurement Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Photon Time Measurement Module total production and demand, 2021-2032, (Units)

Global Single-Photon Time Measurement Module total production value, 2021-2032, (USD Million)

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

Global Single-Photon Time Measurement Module consumption by region & country, CAGR, 2021-2032 & (Units)

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

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

Global Single-Photon Time Measurement Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Single-Photon Time Measurement Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Single-Photon Time Measurement Module 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 PicoQuant, Becker & Hickl, Swabian Instruments, ID Quantique, qutools, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single-Photon Time Measurement Module 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 Single-Photon Time Measurement Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Photon Time Measurement Module Market, Segmentation by Type:

Benchtop

Embedded

Global Single-Photon Time Measurement Module Market, Segmentation by Channel:

4–8 Channel

16–32 Channel

Others

Global Single-Photon Time Measurement Module Market, Segmentation by Application:

Fluorescence Lifetime

Quantum Optics

Others

Companies Profiled:

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

Key Questions Answered:

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

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