



TAG Q

Precision Event Timing & High-Speed Pulse Counting System

Tag Q is a compact, high-performance event timing and pulse-counting system designed for precision measurement applications. Engineered for quantum optics, photonics, LiDAR, and advanced timing environments, it delivers real-time pulse detection, accurate timestamping, and high-speed processing capabilities. With support for up to 50 million pulses per second, scalable architecture expandable to 16 channels, industry-standard SMA interfaces, and seamless UART connectivity, it provides reliable and efficient performance in a rugged, low-power aluminum enclosure suitable for both research and industrial deployments.

KEY FEATURES



High-precision event timing
and pulse-counting
capability



Real-time pulse detection
and timestamping



Scalable architecture
expandable up to 16
channels



High-speed processing for
demanding measurement
applications



Compact and rugged
aluminum enclosure



Seamless integration
through UART
communication



Low-power operation
using standard 5 V DC
supply



Suitable for quantum
optics, photonics, LiDAR,
and timing applications



Industry-standard SMA
signal interfaces

Technical Specifications

Number of Channels	4 (Expandable up to 16)
Input Interface	50 Ω SMA Connector
Input Voltage Level Range	1.7 V – 5.5 V
Pulse Count Range	1 Pulse/s – 50 Mega Pulses/s
Minimum Detectable Pulse Width	9 ns
Communication Interface	UART
Power Source	DC 5 V Adapter
Enclosure Material	Aluminum
Dimensions	TBD

WHY TAG Q?



Tag Q is a versatile timing and measurement solution designed for research, photonics, quantum, and industrial applications. It enables precise event analysis with high accuracy and reliability. Its modular architecture ensures flexibility and scalability for diverse deployment needs. Built for long-term performance, Tag Q helps organizations achieve dependable results in demanding environments.



Stay Connected

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