LINTag

High-Throughput Single-Photon-Streaming

LINTag is the time-tagger system for ultra-fast data acquisition. The time-to-digital converter boasts 8 acquisition channels, each with an adjustable input threshold and impedance. The system can deliver over **400 MTags** per second with an accuracy of less than **8.5 ps**, transmitting data to your computer via a **10G** Ethernet SFP+ connection that uses a full-stack **TCP/IP** interface. If your application requires lower latency, you can utilize the embedded PC to directly access the time tags from the **FPGA**.

Timing & Processing

|	
RMS jitter, ps	3.6
FWHM jitter, ps	8.5
Digital bin size, ps	1
Max. input frequency, MHz	550
Tag transfer rate, MTags/s	400
Burst memory, GTags	10
Internal computing capability	Intel® 13th Gen. Core™ i7

Input

Signal level, V	-2 to 2.5
Impedance, Ohm	50 / Hi-Z (1M)
Polarity	Negative / Positive
Channel number	8
External clock input	10 MHz, IRIG-B

General

Power supply	24 V, 12.5 A
Dimensions, (w × d × h), mm	480 × 345 × 133 (3U)
Connectivity	USB 3.0 / Thunderbolt 3 / SFP+ (10G TCP/IP)
Operating system	Windows, macOS, Linux

Timing jitter

12.0ps (FWHM) two-channel jitter

8.5ps (FWHM) single-channel jitter
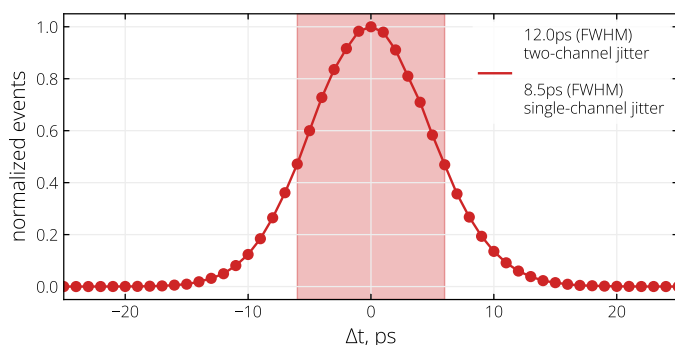
Get in touch & learn more

www.photonscore.de
+49 391 6117 280
email@photonscore.de