

Report

2026/9/2 李翊銘

TDC Introduction

A TDC is a device that converts a time interval into digital data that can be analyzed by a computer.

- TDC has high time resolution.
- Able to compare timing information from multiple detector channels.
- Provides digital timing data that can be analyzed.
- can be controlled directly through the GUI.



TDC Testing



Quad Linear Fan-In Fan-Out
Quad Gate/Delay Generator

Tigger

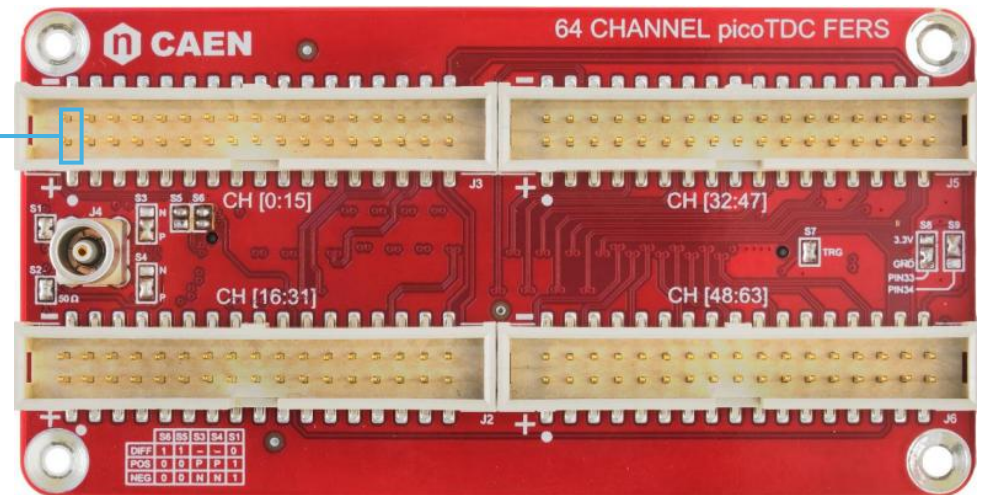
Signal



Discriminator

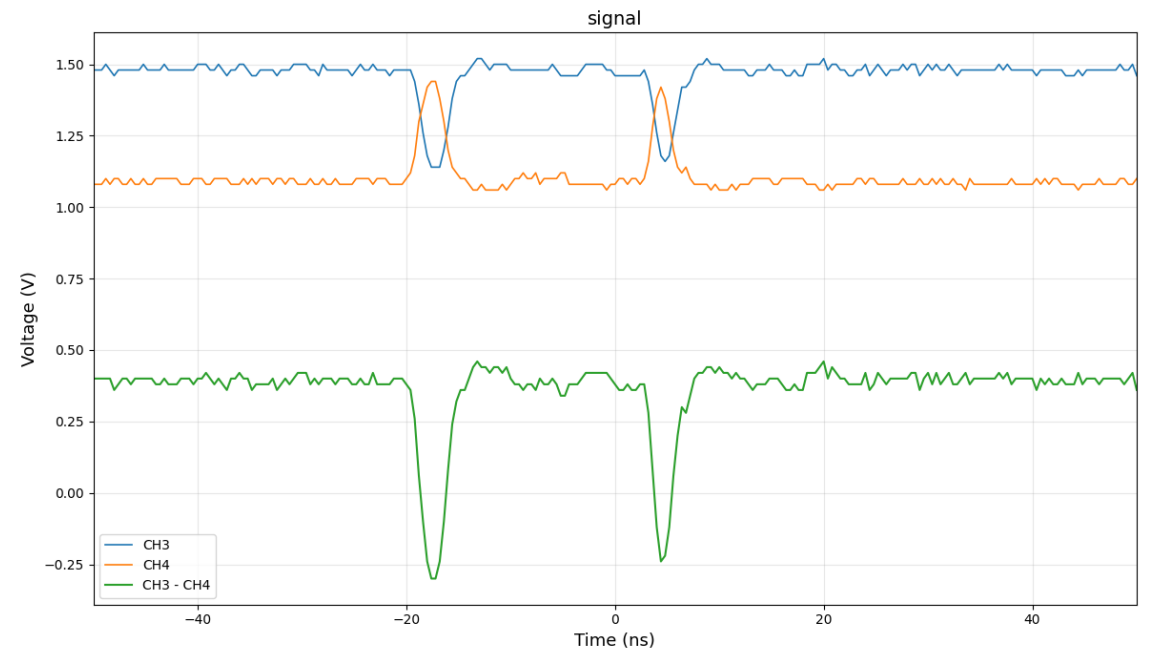
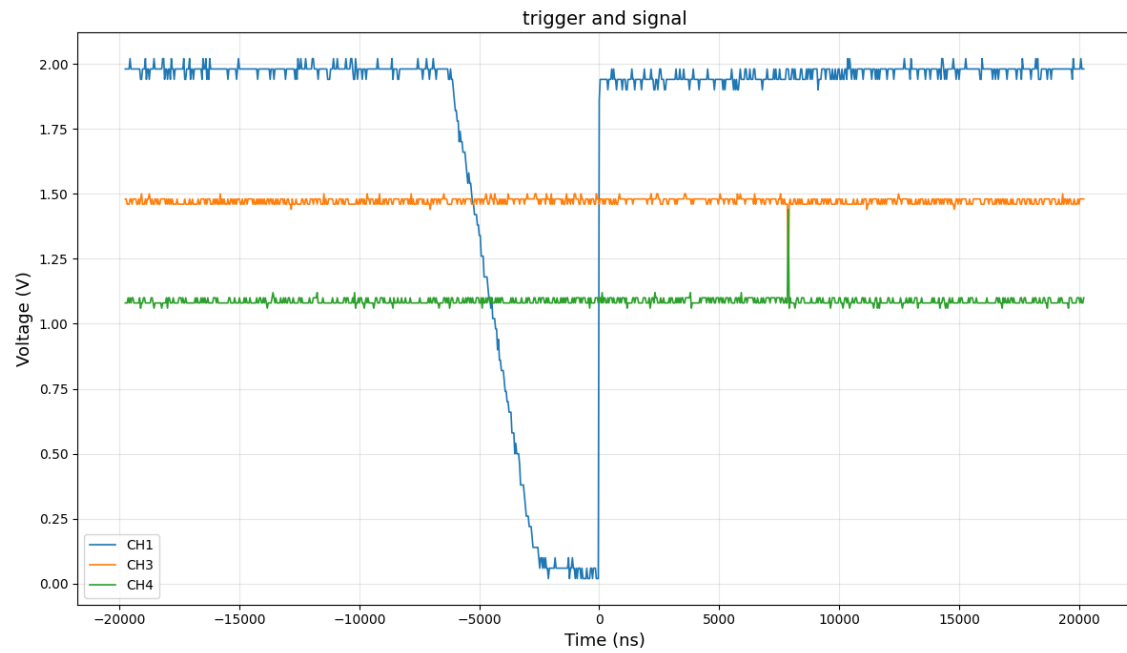


Front panel



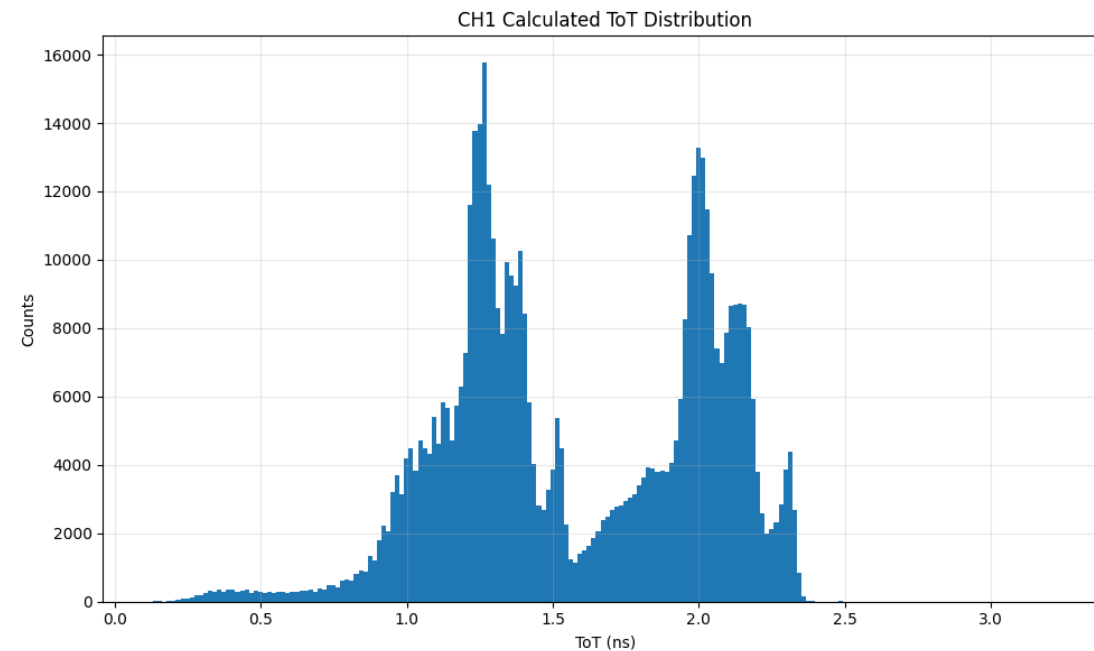
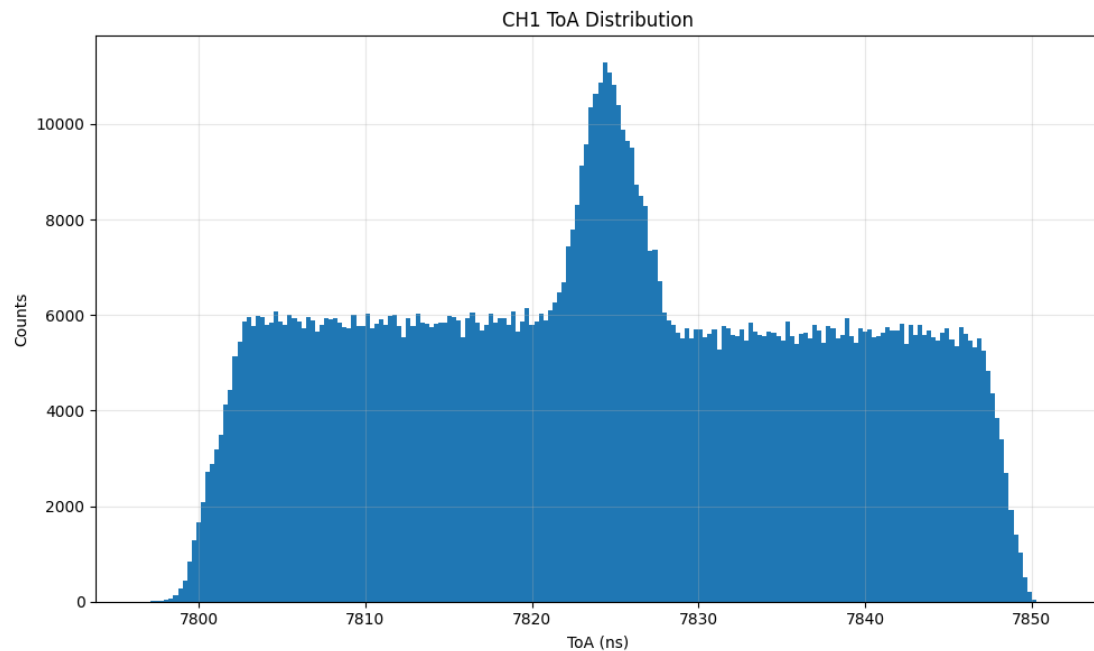
Back panel

TDC Testing



Waveform on oscilloscope

TDC Testing



Trigger number	Signal number per trigger	Leading edge number	Trailing edge number	Total efficiency
276547	2	540823	533048	97.1%

