

# cronologic

Thunderbolt to PCIe  
USER GUIDE



TB-T2-PCIe

[www.cronologic.de](http://www.cronologic.de)

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**Note:** This user guide is under active development.

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# 1 Introduction

The TBT2PCIe crate offers the ability to connect our time-to-digital converters (TDCs), that is,

- [TimeTagger](#)
- [xTDC4-PCIe](#)

to any USB4/Thunderbolt port.

This user guide provides an overview of the crate. The APIs and interfaces of the respective TDC-card are unchanged. Refer to the respective user guides at [www.cronologic.de/support/downloads](http://www.cronologic.de/support/downloads).

This user guide is available at [readthedoc](#) and at [www.docs.cronologic.de](http://www.docs.cronologic.de) as HTML and as PDF download.

## 2 Hardware

Figure 2.1 gives an overview of the TBT2PCIe crate with an HPTDC4 board installed.



Figure 2.1: TBT2PCIe crate with removed top cover and an HPTDC4 board.

### 2.1 Installing a TDC board

1. Remove the top cover of the TBT2PCIe crate by doing XYZ.
2. Remove the metal rail from your TDC board by removing the two screws holding it in place.
3. Connect your TDC board to the PCIe slot of the TBT2PCIe crate.
4. Use the threaded holes where the metal cover of the TDC board was connected to secure the TDC board to the TBT2PCIe crate.
5. If present, connect the J25 connector.
6. Close up the TBT2PCIe crate.