

Testing ninjaNIRS Rx and Tx trigger board

1. Connect a mini-USB cable to the trigger board and any USB 5V power supply.
 - a. Check whether the **green** power on LED lights up
2. Connect the Qiachip Tx trigger board as shown in Figure 1.
3. Supply the Qiachip Tx trigger pcb with +3-5V and GND or connect it to and supply via ninjaNIRS via adapter board.
4. One by another, press each TRIG 1 – TRIG 4 button.
 - a. Check whether the corresponding **blue** Tx LED lights up when button is pressed
 - b. Check whether the **red** Tx trigger LED on the Qiachip Tx board lights up when button is pressed.
 - c. Check whether the **red** Rx trigger LED on the Qiachip Rx board lights up when button is pressed
5. One by another, connect a BNC cable to each TRIG 1 – TRIG 4 BNC connector and generate a High – Low transition using a signal Generator and TTL levels.
 - a. Check whether the corresponding **blue** Tx LED, the **red** Qiachip Tx LED and the **red** Qiachip Rx LED lights up whenever the BNC signal level is low.

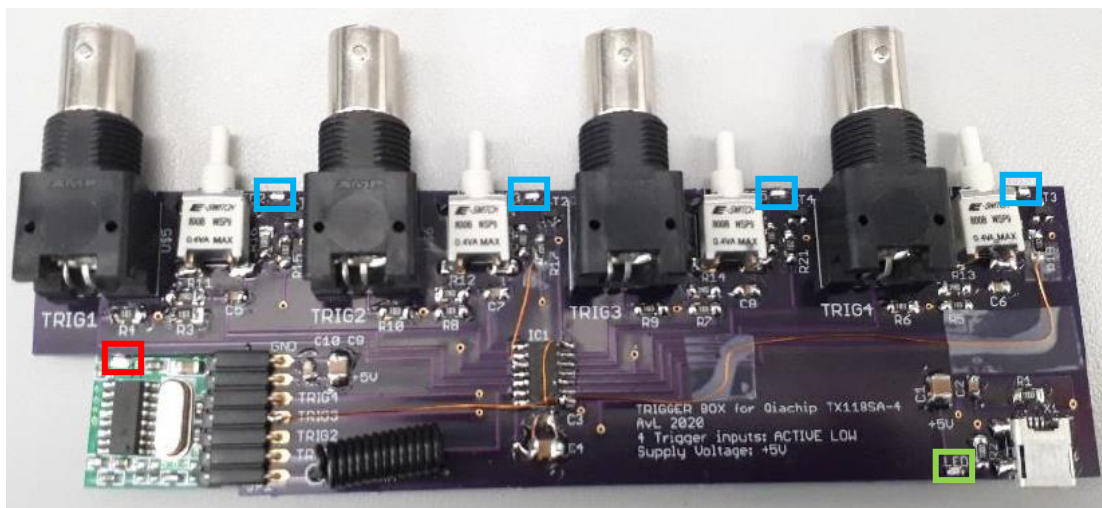


Figure 1: Tx Trigger Board (v1.0), with Qiachip Tx trigger board connected. Please note Rev 1.1 looks slightly different

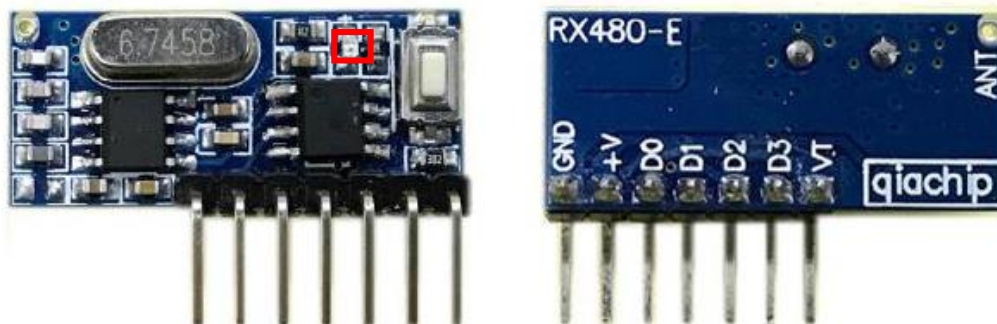


Figure 2: Qiachip Rx trigger board