Sync Controller ICD

# Overview

The sync controller latches an input signal (sync\_in) high for a user specified amount of time before releasing it. The latched signal, which mirrors the rising edge of sync\_in, is called sync\_out. The user can specify the latch high period through a USB serial interface.

# Instructions:

1. Plug USB cable into board
2. Plug BNC adapters into appropriate location:
   1. sync\_in: 143 and corresponding ground
   2. sync\_out: 142 and corresponding ground
3. Open terminal program (115200/8/N/1) in hex mode
4. Plug in USB cable to computer
   1. “44 45 41 44 42 45 45 46 0a” (hex) or “DEADBEEF” in ASCII will appear to confirm that the module is functioning correctly
5. Enter the desired latch high time, in ms, in hex and append no characters
   1. 10 ms latch time = 0x0A; returns “0x0A”
   2. 137 ms latch time = 0x89; returns “0x89”
   3. The entered value will be echoed in the terminal as well as the LEDs
6. As long as sync\_out is low, sync\_in will be echoed on sync\_out and latched high for the specified amount of time