Usage Documentation For USB Keyboard Covert Channel

USB Keypad Setup

- 1) Connect pins 0-3 on the Teensy LC to the first four pins of the keypad, then connect pins 23-19 to the last four pins of the keypad.
- 2) The connect pins may be changed, however the code must be changed to reflect that
- 3) Plug Teensy LC into host PC via USB micro-B cable.

USB Keypad Development Setup

- 1) Install Arduino IDE 1.8.7 and TeensyDuino add-on. (1.8.7 was the last known version compatible with TeensyDuino when this document was created)
- 2) Hit the "sketch" tab, "Manage Libraries" then type in "Keypad" and install the adafruit keypad library
- 3) Connect Teensy LC to host PC
- 4) Hit "file" then "open" and select the KeypadCC.ino file
- 5) Under "Tools" select USB port the Teensy LC is connected to and change "USB Type" to "Keyboard"
- 6) Under Sketch, hit "upload" to verify/compile and upload to the Teensy LC

USB Keyboard Setup

- 1) Connect right-most port on hub provided to USB host port pins on Teensy 3.6 (above pins 1-6). The red wire should connect to the 5V pin on the Teensy 3.6 (The closest USB Host pin to the micro-B connector on-board).
- 2) Connect desired keyboard to the right most USB port on the USB hub
- 3) Connect the Teensy 3.6 to host PC via micro-B connector

USB Keyboard Development Setup

- 1) Install Arduino IDE 1.8.7 and TeensyDuino add-on. (1.8.7 was the last known version compatible with TeensyDuino when this document was created)
- 2) Download the USBHost_t36 from github and place the zip file in libraries folder of the arduino IDE (https://github.com/PaulStoffregen/USBHost_t36)
- 3) Connect Teensy 3.6 to host PC
- 4) Hit the "file" tab then "open" and select the KeyboardCC.ino file
- 5) Under "Tools" select USB port the Teensy 3.6 is connected to and change "USB Type" to "Keyboard"
 - a) If serial debugging would like to be used, configure keyboard to serial and comment all Keyboard statements
- 6) Under Sketch, hit "upload" to verify/compile and upload to the Teensy 3.6