Remote Hams Client Setup Configuration for WinKeyer/PTT/KEY/PADDLE

Version: RCForb Client v0.9.218

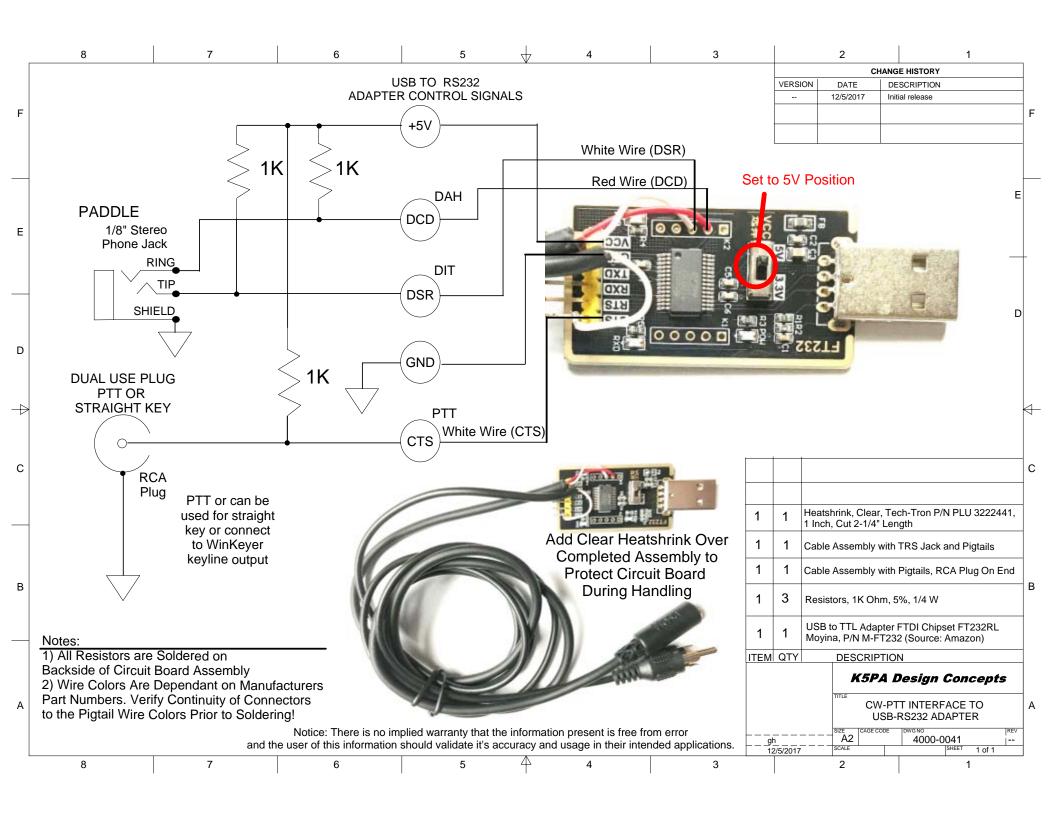
Gene Hinkle, K5PA 12/14/2017

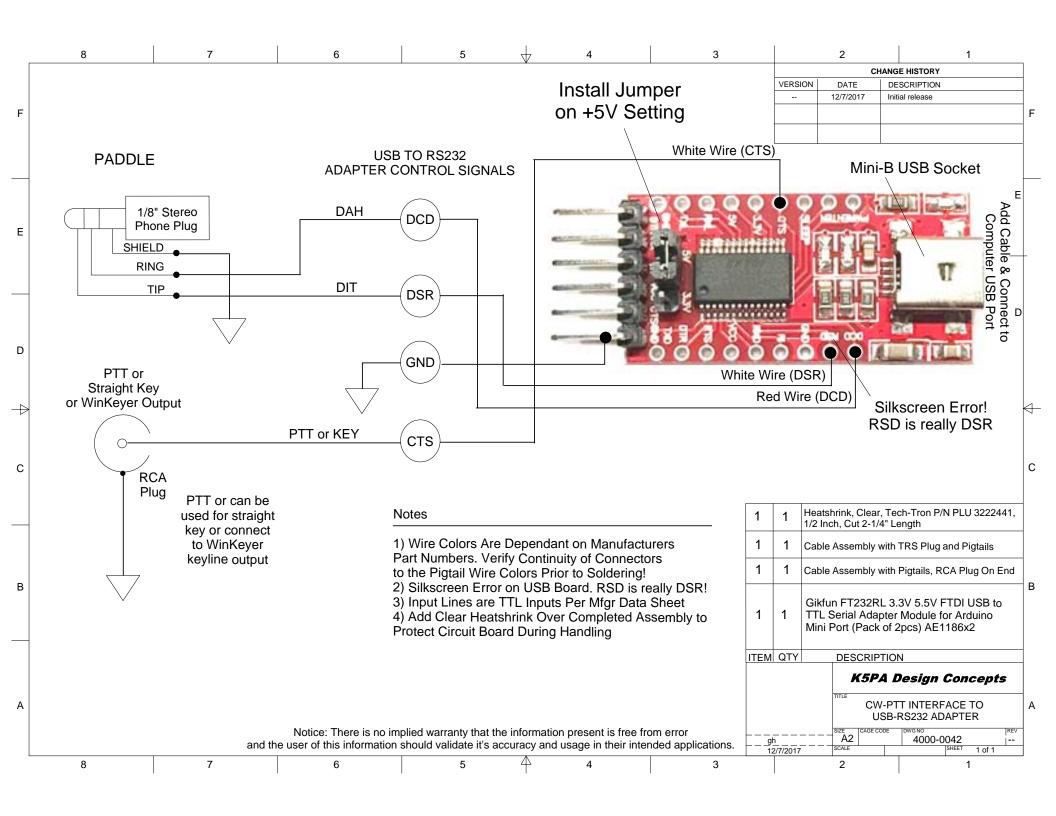
Important Notice

- The USB to TTL Adapter part numbers I list using the FTDI chipset were the ones used in this technical note. These are NOT RS-232 signaling levels as you would find with in-line USB to RS-232 adapters (<u>https://en.wikipedia.org/wiki/RS-232</u>). RS-232 levels (not what I am using) are:
 - **logic 0** voltage between +3 and +15 volts
 - logic 1 is between -3 and -15 volts.
 - Notice the range +3 to -3 volts is invalid.
- I find it easier and less expensive to use these small circuit cards with the USB connector in order to design circuit interfaces.
- For the circuit I specify, the logic levels at the circuit board pins are either 3.3v or 5v (TTL) levels and set by a small circuit board slide switch.
- If you substitute in-line type of USB to RS-232 adapters, the information presented here will likely not work. Beware and understand the differences.

Interfaces

- Two common USB to RS-232 Interface Schematics are Provided
 - Drawing # 4000-0041, PCBA plugs into USB port
 - Drawing # 4000-0042, In-line PCBA with USB Jack
- Configuration Shown for Key or WinKeyer and Paddle Connection
- Alternately, Can Also Set Configuration for PTT





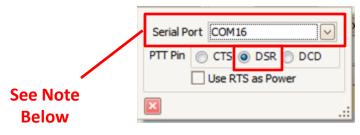
PTT/DIT-DAH/PADDLE CONNECTIONS Key Concepts (no pun intended)

- The schematic diagrams for the USB to Serial converter boards show connections to the control signals CTS, DSR and DCD
- These control signals can be defined for whatever connections are needed
 - Example #1, Using a WinKeyer with its own paddle and internal memories
 - External PTT: DSR to signal the PTT command
 - External Key: DIT and DAH not used
 - External Key: DCD to signal KEY command
 - The WinKeyer will invoke a PTT constantly when code is sent and the DCD will be the actual Morse code sent (WinKeyer has PTT1 and KEY1 connections)
 - Example #2, Using Just a Paddle connected to the USB-Serial Port (no WinKey used)
 - External PTT: DSR to signal the PTT command
 - External Key: DSR to signal the DIT paddle closure
 - External Key: DCD to signal DAH paddle closure
 - On the DIT/DAH paddle connections to the USB-Serial interface
 - Next 2 pages shows the setting graphically

Example #1: If Using the WinKeyer to Send CW Settings

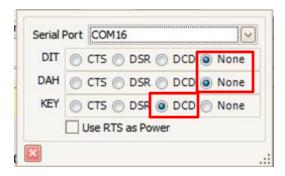
These are the Menu Selections in the Client Interface

CONTROL DEVICE > EXTERNAL PTT



1/8" TRS Plug: TIP = PTT1 TRS Plug to RCA Adapter Required

CONTROL DEVICE > EXTERNAL CW



1/8" TRS Plug: RING = KEY1 TRS Plug to RCA Adapter Required

IMPORTANT NOTE

The COM PORT shown as COM16 but yours is whatever the port is defined as when the USB-Serial interface device is plugged into the computer

Example #2: If Using the Just a Paddle to Send CW (No WinKeyer) Settings

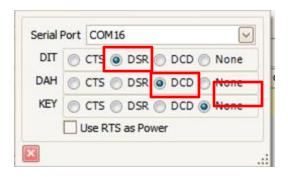
These are the Menu Selections in the Client Interface

CONTROL DEVICE > EXTERNAL PTT



CABLE NOT USED

CONTROL DEVICE > EXTERNAL CW



1/8" TRS Plug: TIP = DIT RING = DOT

IMPORTANT NOTE

12/18/2017

The COM PORT shown as COM16 but yours is whatever the port is defined as when the USB-Serial interface device is plugged into the compatter

Example Interface Diagram

Twin Paddle – WinKeyer - Computer

