

Remote Hams Client Setup

Configuration for WinKeyer/PTT/KEY/PADDLE

Version: RCForb Client v0.9.218

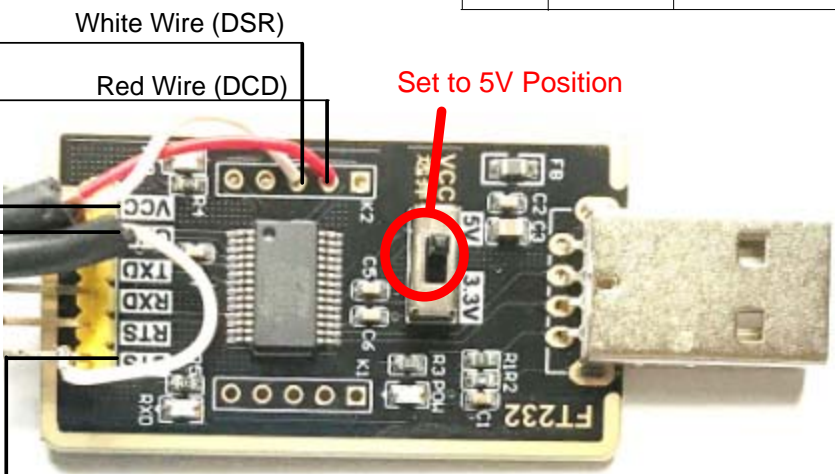
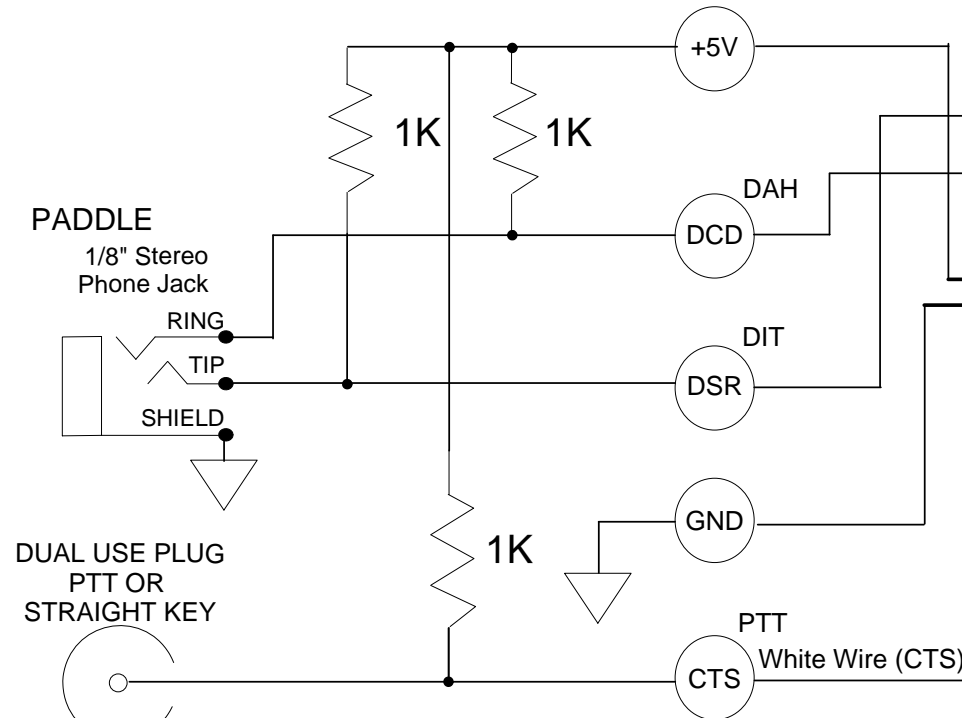
Gene Hinkle, K5PA
12/14/2017

Interfaces

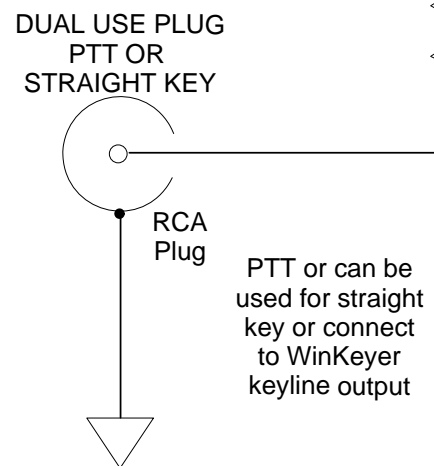
- Two common USB to RS-232 Interface Schematics are Provided
 - Drawing # 4000-0041, PCBA plugs into USB port
 - Drawing # 4000-0042, In-line PCBA with USB Jack
- Configuration Shown for Key or WinKeyer and Paddle Connection
- Alternately, Can Also Set Configuration for PTT

CHANGE HISTORY		
VERSION	DATE	DESCRIPTION
--	12/5/2017	Initial release

USB TO RS232
ADAPTER CONTROL SIGNALS



Set to 5V Position



PTT or can be used for straight key or connect to WinKeyer keyline output



Add Clear Heatshrink Over Completed Assembly to Protect Circuit Board During Handling

- Notes:
- 1) All Resistors are Soldered on Backside of Circuit Board Assembly
 - 2) Wire Colors Are Dependant on Manufacturers Part Numbers. Verify Continuity of Connectors to the Pigtail Wire Colors Prior to Soldering!

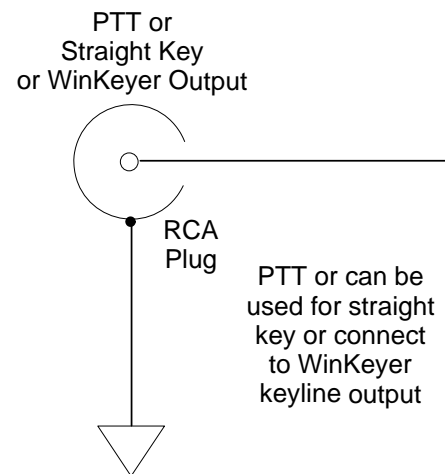
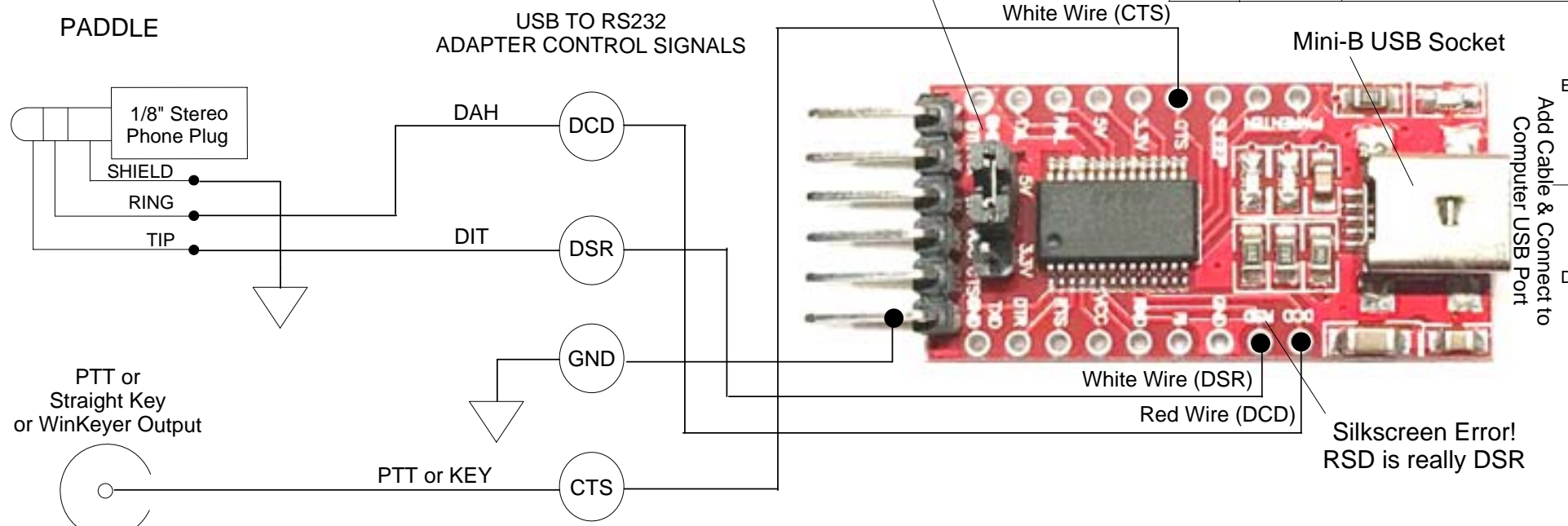
Notice: There is no implied warranty that the information present is free from error and the user of this information should validate it's accuracy and usage in their intended applications.

ITEM	QTY	DESCRIPTION
1	1	Heatshrink, Clear, Tech-Tron P/N PLU 3222441, 1 Inch, Cut 2-1/4" Length
1	1	Cable Assembly with TRS Jack and Pigtails
1	1	Cable Assembly with Pigtails, RCA Plug On End
1	3	Resistors, 1K Ohm, 5%, 1/4 W
1	1	USB to TTL Adapter FTDI Chipset FT232RL Moyina, P/N M-FT232 (Source: Amazon)

K5PA Design Concepts			
TITLE CW-PTT INTERFACE TO USB-RS232 ADAPTER			
SIZE A2	CAGE CODE	DWG NO 4000-0041	REV --
SCALE	SHEET 1 of 1		DATE 12/5/2017

CHANGE HISTORY		
VERSION	DATE	DESCRIPTION
--	12/7/2017	Initial release

Install Jumper on +5V Setting



- Notes**
- 1) Wire Colors Are Dependant on Manufacturers Part Numbers. Verify Continuity of Connectors to the Pigtail Wire Colors Prior to Soldering!
 - 2) Silkscreen Error on USB Board. RSD is really DSR!
 - 3) Input Lines are TTL Inputs Per Mfgr Data Sheet
 - 4) Add Clear Heatshrink Over Completed Assembly to Protect Circuit Board During Handling

Notice: There is no implied warranty that the information present is free from error and the user of this information should validate it's accuracy and usage in their intended applications.

1	1	Heatshrink, Clear, Tech-Tron P/N PLU 3222441, 1/2 Inch, Cut 2-1/4" Length
1	1	Cable Assembly with TRS Plug and Pigtails
1	1	Cable Assembly with Pigtails, RCA Plug On End
1	1	Gikfun FT232RL 3.3V 5.5V FTDI USB to TTL Serial Adapter Module for Arduino Mini Port (Pack of 2pcs) AE1186x2
ITEM	QTY	DESCRIPTION
K5PA Design Concepts		
TITLE CW-PTT INTERFACE TO USB-RS232 ADAPTER		
gh	A2	DWG NO 4000-0042
12/7/2017	SCALE	REV --
		SHEET 1 of 1

PTT/DIT-DAH/PADDLE CONNECTIONS

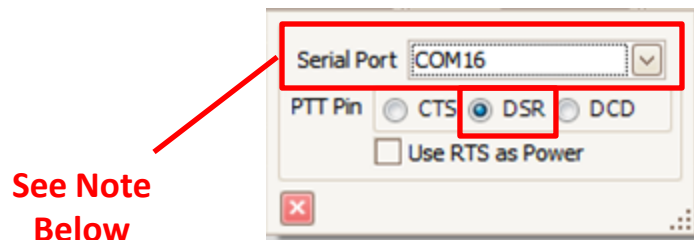
Key Concepts (no pun intended)

- 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

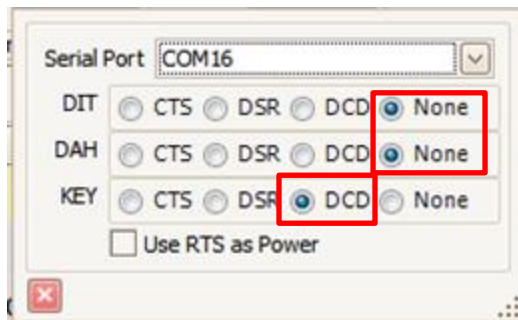
These are the Menu Selections in the Client Interface

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

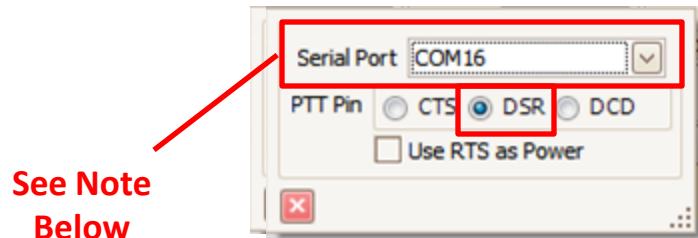
IMPORTANT NOTE

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

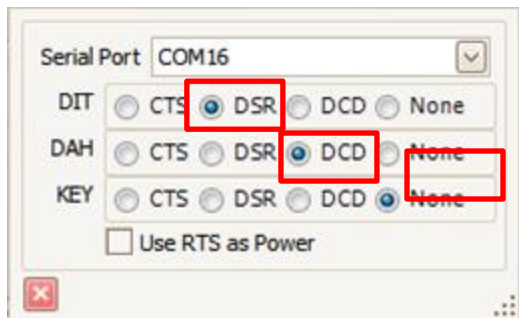
These are the Menu Selections in the Client Interface

CONTROL DEVICE > EXTERNAL PTT



CABLE NOT USED

CONTROL DEVICE > EXTERNAL CW



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

IMPORTANT NOTE

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 Interface Diagram

Twin Paddle – WinKeyer - Computer

