*micro*2R and Win-Test setup

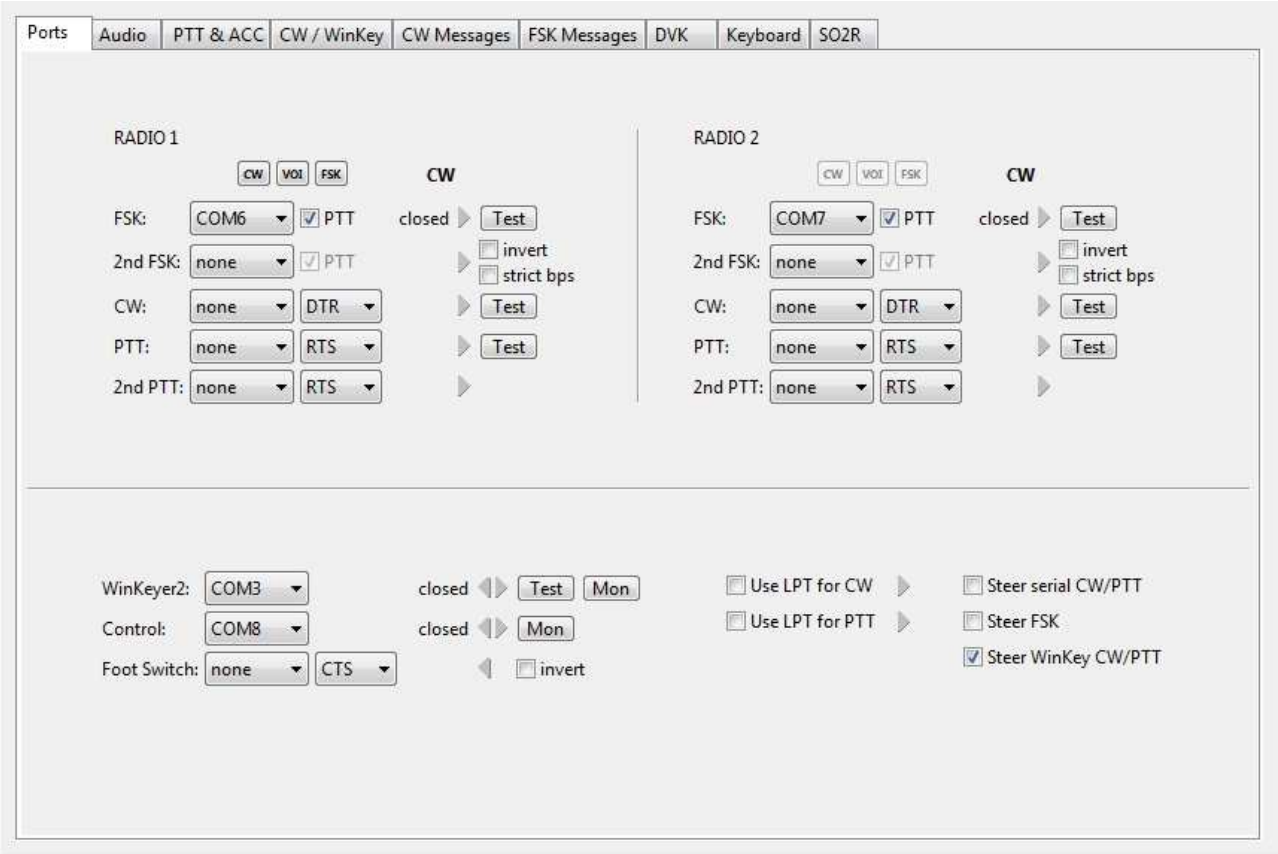
"USB Only" SO2R

Router setup:

Note: The specific port numbers are not important. The key is consistency - the same port number must be used for a specific function in both Router and Win-Test.

*micro*2R does not provide transceiver control. You will need a CAT/CI-V interface for each radio. They can be anything from traditional serial ports to *micro*HAM *micro*KEYER II. Connection data is in the *micro*2R User Manual.

1. Assign a port for Control. N1MM Logger will use this port to select transmit and receive focus.
2. Assign ports for FSK and check the PTT box.
3. **Suggestion:** If you are using *micro*HAM CAT/CI-V interfaces, use the FSK ports in those devices instead of the FSK ports in *micro*2R.
4. Assign a port for WinKey. Use the PTT & ACC tab to select PTT or QSK operation in CW (Use WinKey PTT).
5. Use the PTT & ACC tab to select whether *micro*2R is to generate PTT for each radio (Generate PTT Output).



6. Select "microHAM Control Protocol on COM port" on the **SO2R** tab.

This setting permits Win-Test to control:

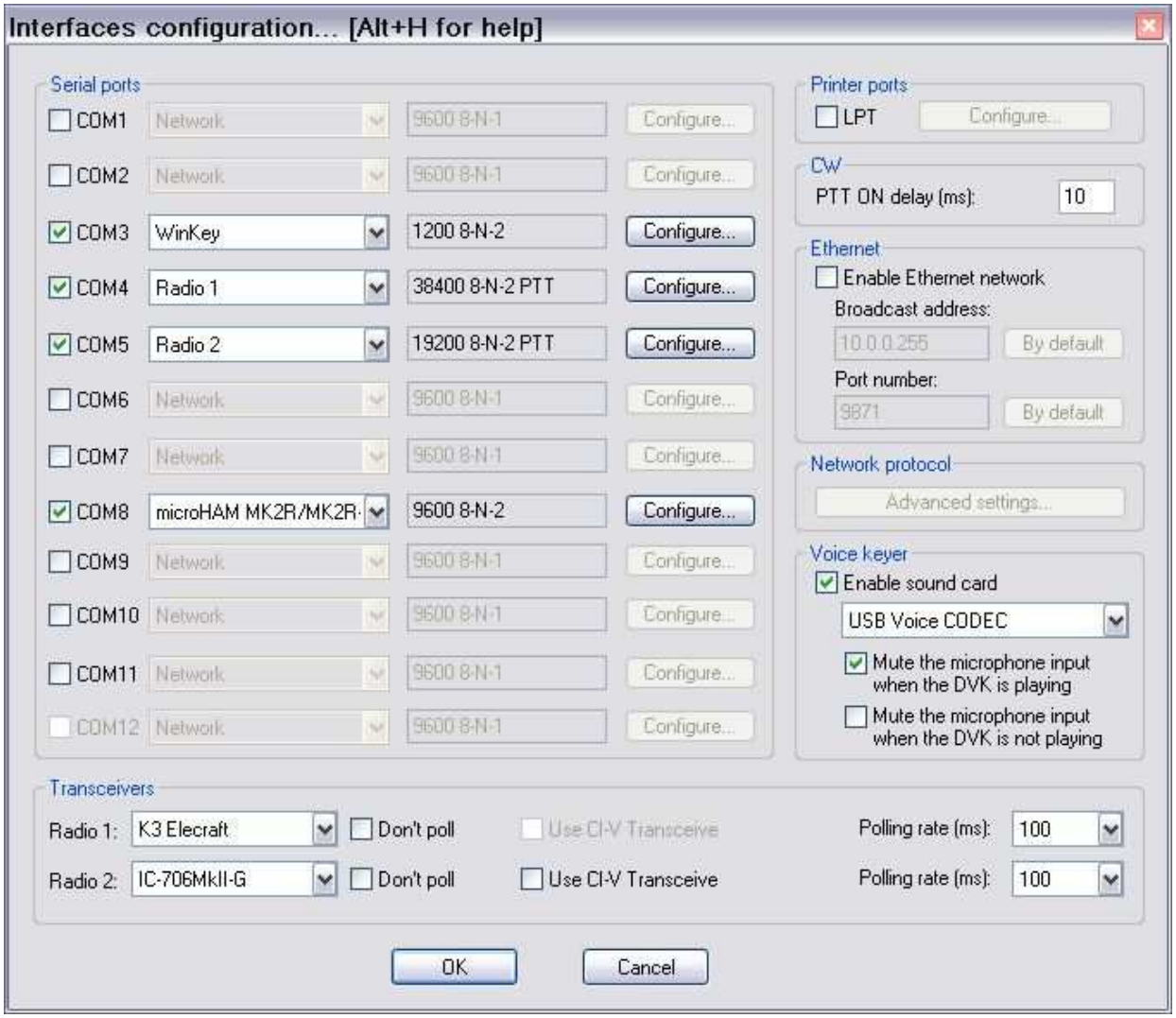
- **Transmit Focus**
- **Receive Focus**
- **Stereo/Split Headphones**
- **Headphones Reverse**
- **Antenna Relay**

Antenna Relay is simply passed through to the ACCESSORY jack. *micro*2R provides a four bit (binary) signal to drive a user supplied 1 of 16 decoder for each radio. Seen the WriteLog help file for information on the Antenna Relay Support.

7. Save the settings to a preset by selecting menu **Preset | Save as**. Choose a position and name it Win-Test.

Win-Test setup:

1. Click **Options | Configure Interfaces** ….



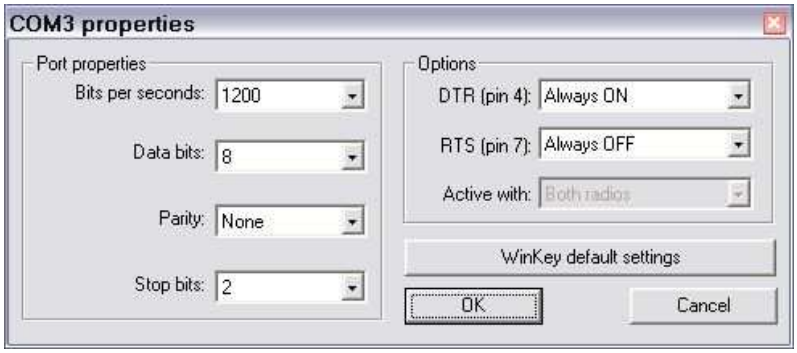
2. Check "Enable sound card" and select the sound card connected to *micro*2R.

3. Configure your radio CAT/CI-V interfaces.

4. Check the port you set for WinKey and set the interface to WinKey

5. Click "configure" and set the port properties to 1200, 8N2.

6. Set Options to: DTR= Always On and RTS = Always Off



7. Check the port you set for Control and set the interface to microHAM MK2R/MK2R+.

8. Click "configure" and set the port properties to 9600, 8N2.

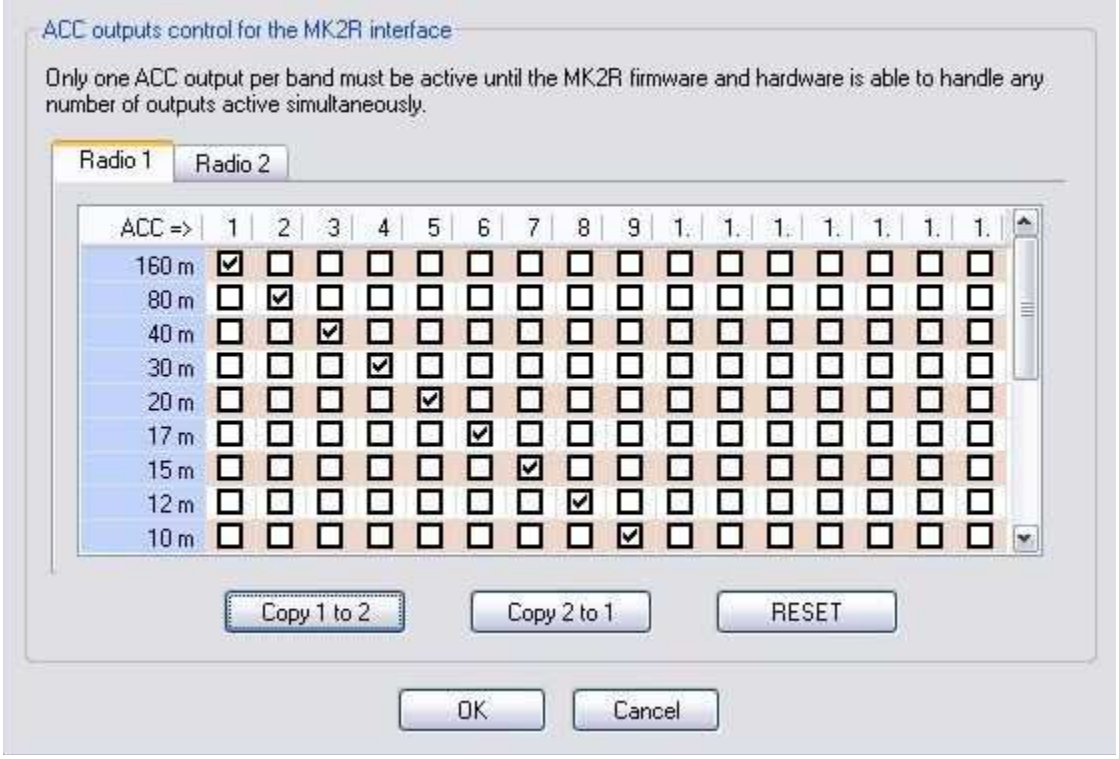
9. Set options to: DTR = Always Off and RTS = Always Off.

10. Click **Options | MK/MK2/MK2R configuration ….**

11. Check **Enable the MK/MKII/MK2R integrated DVK** if you plan to use the Router DVK.

12. Check the boxes for microHAM Router if you want Win-Test to start Router if it is not running when Win-Test starts.

13. If you plan to use the ACC port to control a band decoder for bandpass filters and/or antenna switch, set-up the ACC Output maps for Radio 1 and/or Radio 2.



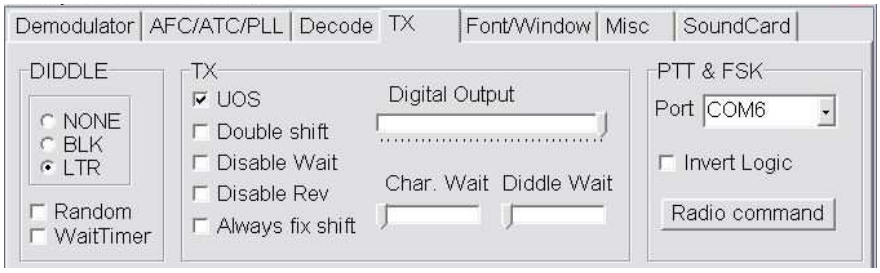
Note: The Antenna Relay (ACC) outputs are four bits per radio. Each radio will require a HEX to 1 of 16 decoder to drive an antenna switch and/or bandpass filter.

RTTY/Digital setup:

RTTY operation with Win-Test requires the use of MMTTY.

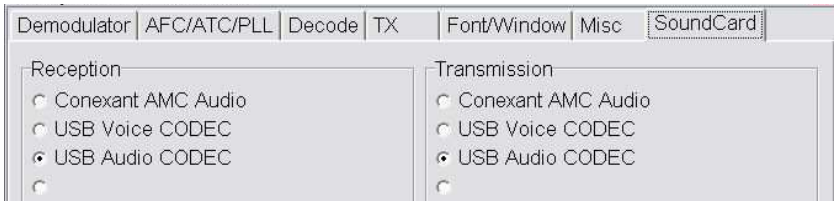
NOTE: Other than setting the correct virtual port for FSK (if used), the digital configuration is identical to that used with your existing digital interface. The information below is provided as a matter of convenience. Please refer to the Win-Test support documents and documentation for your particular interface when configuring digital mode support.

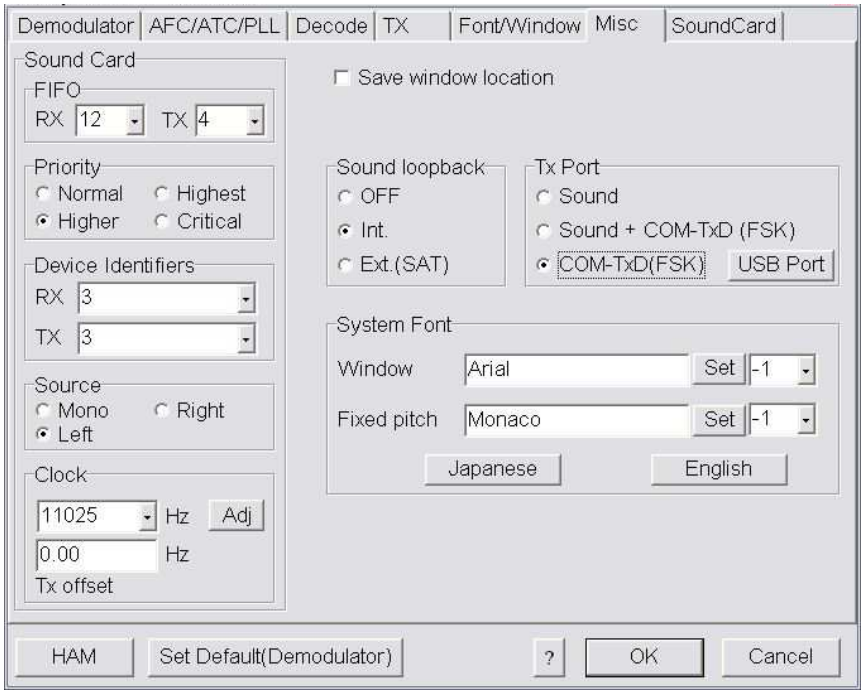
1. Install MMTTY in two separate directories on your computer.
2. Select **Options | RTTY Configuration**
3. Check "Run MMTTY"
4. Enter the path to to each instance MMTTY
5. Make any other selections based on your operating preferences.
6. Start/open MMTTY from the path specified for Radio 1.
7. Select **Option (O) | Setup (O)** on the MMTTY Spectrum/waterfall window.
8. Select the TX tab



9. Set "PTT & FSK" to the port you selected for Radio FSK in Router
10. Select the SoundCard tab

11. Select the sound card you will be using for transmission and reception.
12. Select the **Misc** tab.



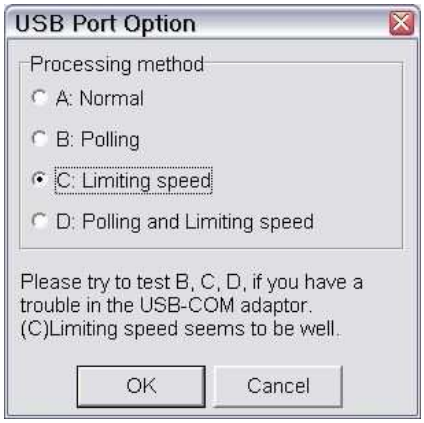


13. If you will be using the same sound card for both radios, select **Source = Left**

14. Set Tx Port to COM-TxD(FSK)

15. Click the **USB Port** button

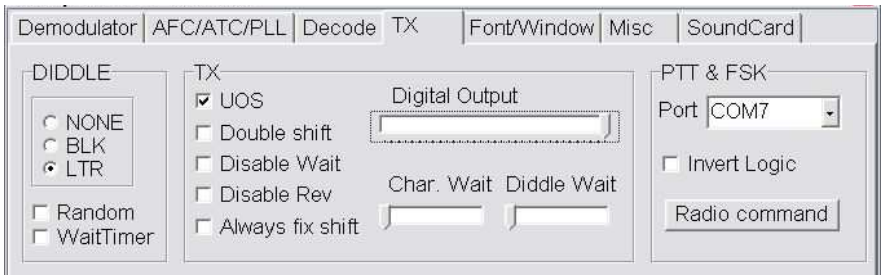
16. choose **C: Limiting speed** and click OK



17. Start/open MMTTY from the path specified for Radio 2.

18. Select **Option (O) | Setup (O)** on the MMTTY Spectrum/waterfall window.

19. Select the TX tab.

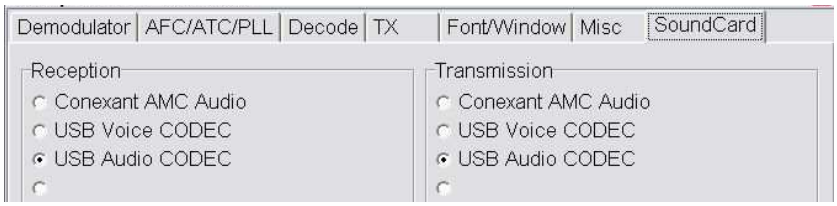


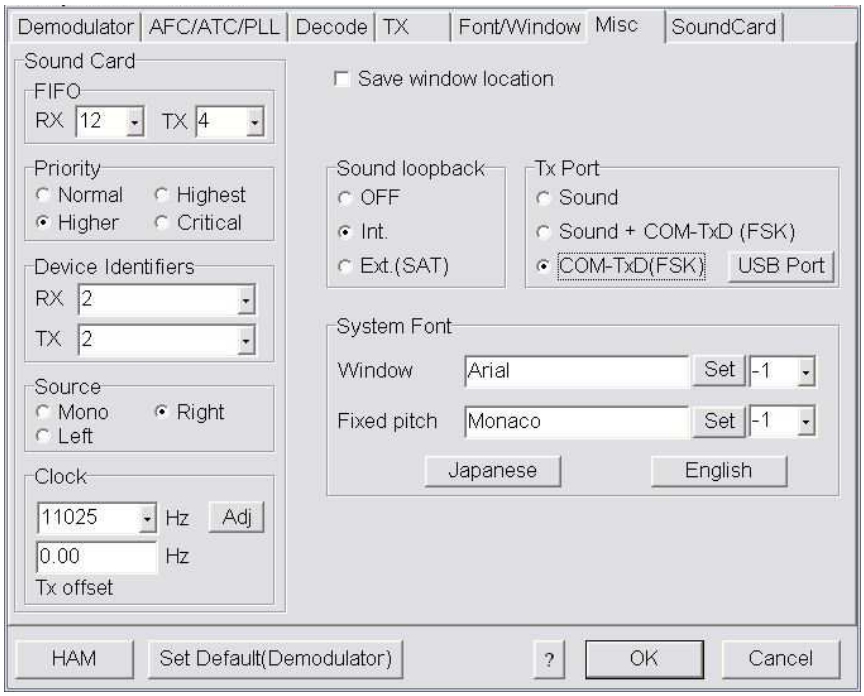
20. Set "PTT & FSK" to the port you selected for Radio 2 FSK in Router

21. Select the SoundCard tab.

22. Select the sound card you will be using for transmission and reception.

23. Select the **Misc** tab.





24. If you will be using the same sound card for both radios, select **Source = Right**

25. Set Tx Port to COM-TxD(FSK)

26. Click the **USB Port** button

27. choose **C: Limiting speed** and click OK