*micro*2R and DX4Win setup guide

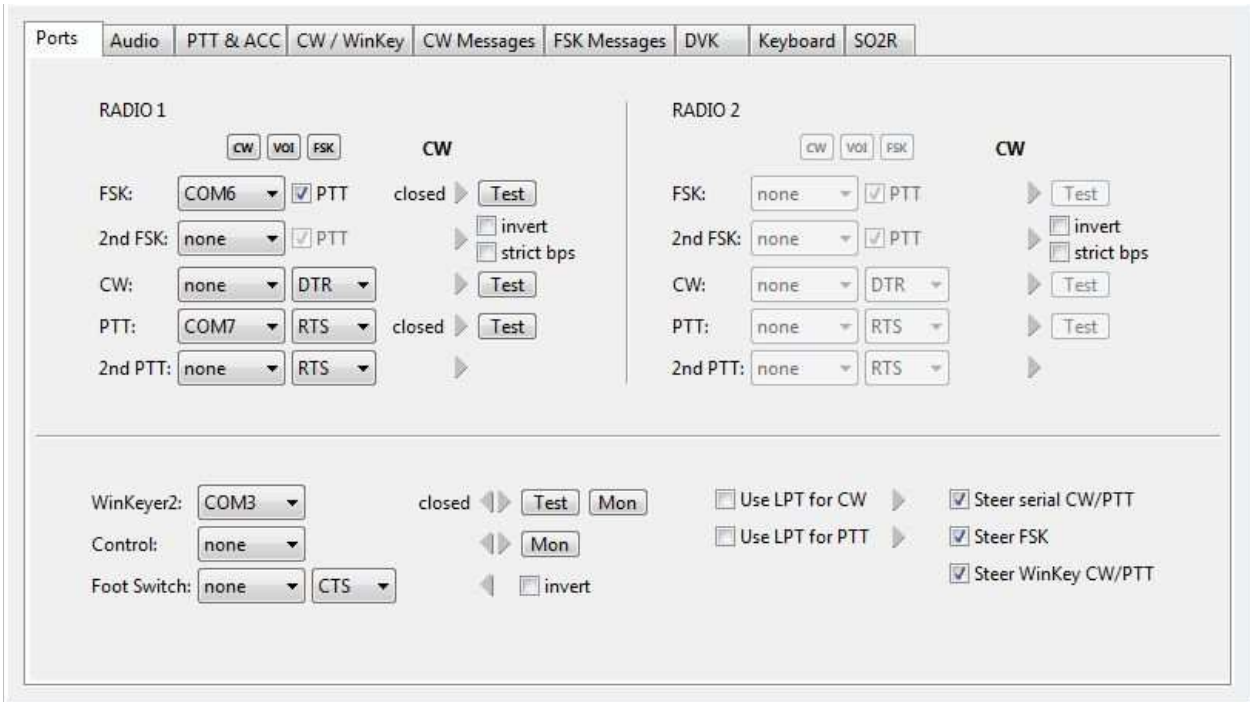
Router setup:

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 the logger.

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

DX4Win does not support microHAM control protocol. You will need to use LPT control or have at least one microHAM CAT/CI-V interface to enable radio switching.

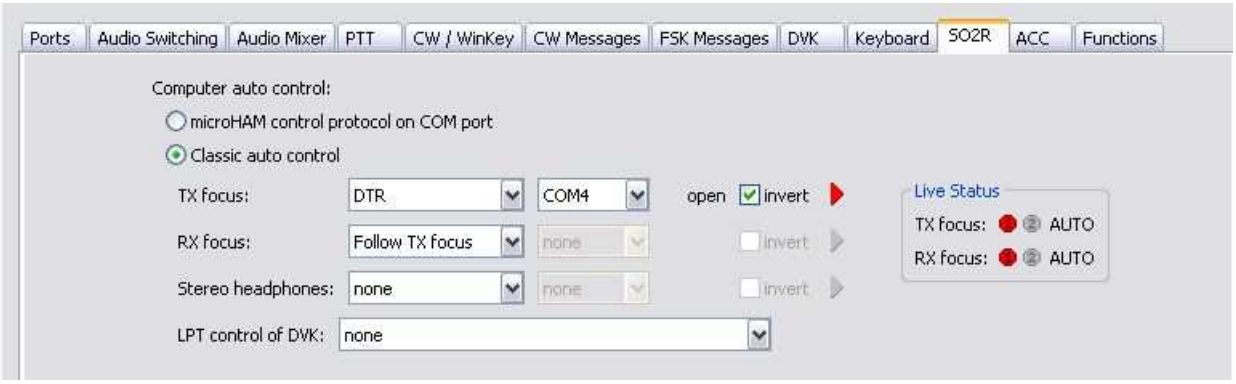
1. Assign a port for FSK on Radio 1 and check the PTT box.
2. Assign a port for WinKey. Use the PTT & ACC tab to select PTT or QSK operation in CW (Use WinKey PTT).
3. Assign a port for PTT. This port will be used for PSK31 and AFSK RTTY.



4. Check "Steer serial CW/PTT"
5. Check "Steer FSK"
6. Check "Steer WinKey CW/PTT"

7. If you are using LPT for radio selection:
   - Select "Classic auto control" on the **SO2R** tab and assign the following controls:
     - **TX focus:** **LPT pin 14**
     - **RX Focus:** **Follow TX Focus**
     - **Stereo Headphones:** **None**
8. If you have a microHAM CAT/CI-V interface
   - Select "Classic auto control" on the **SO2R** tab and assign the following controls:
     - **TX focus:** **DTR –** select the port of your microHAM Interface
     - **RX Focus:** **Follow TX Focus**
     - **Stereo Headphones:** **None**

It may be necessary to check "Invert" for the selected transceiver to match the one selected in DX4Win.

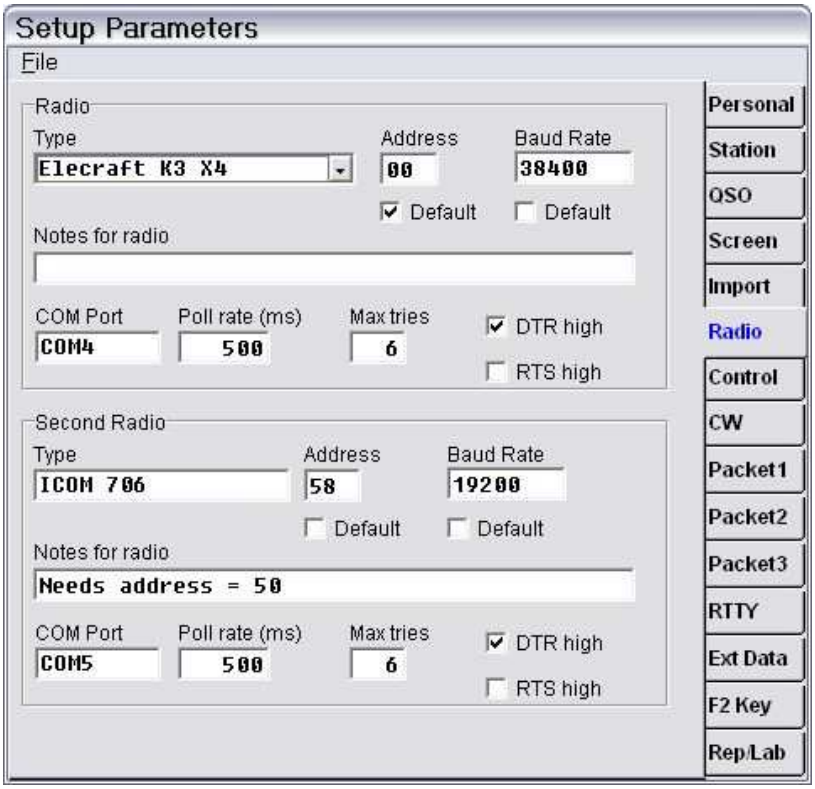


9. These settings permit DX4Win to select transceiver - including microphone, headphones, CW and RTTY (FSK).

10. Save settings to a preset by selecting menu **Preset | Save as.** Choose a position and name it DX4Win.

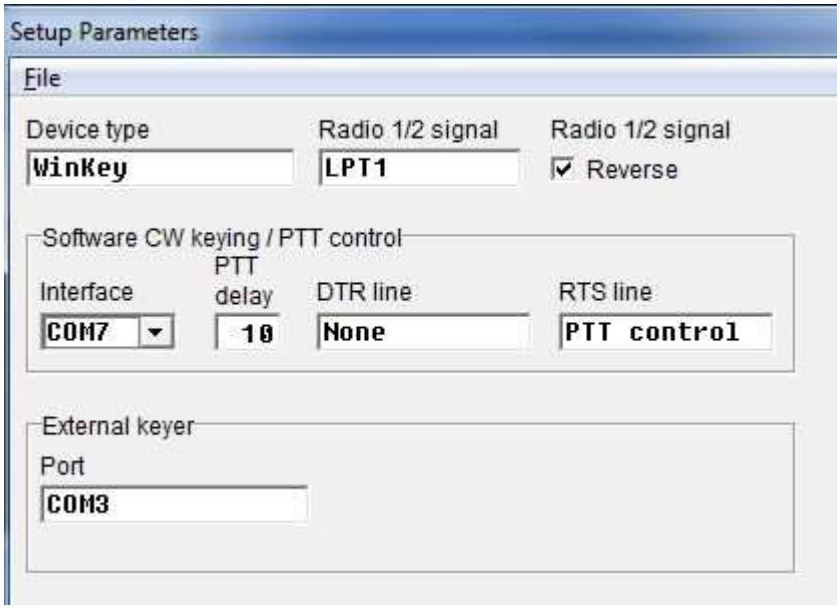
DX4Win setup:

1. Click **File| Preferences** to open the Setup Preferences notebook ...

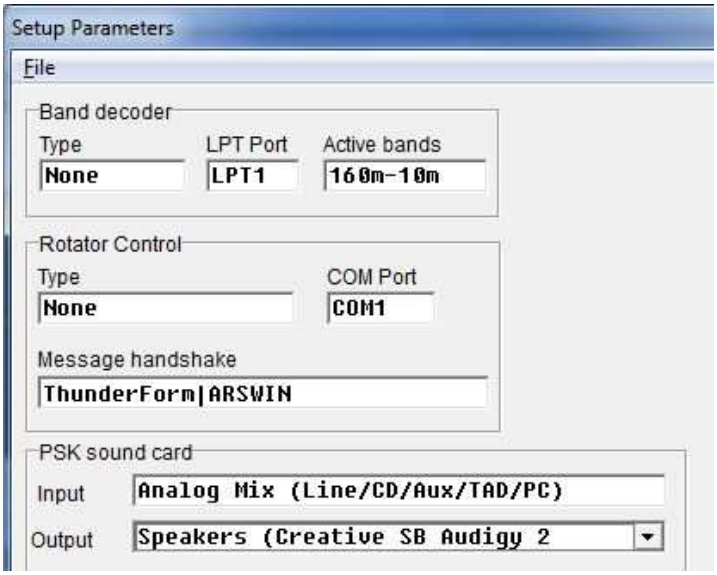


2. Select the Radio page.
3. Select the type of transceiver used for Radio 1.
4. Select the COM port used for Radio 1 and set the Baud Rate if it is different than the default.
5. Check "DTR high"
6. Select the type of transceiver used for Radio 2.
7. Select the COM port used for Radio 2 and set the Baud Rate if it is different than the default.
8. Check "DTR high"
9. Set the Address for Icom and those TenTec transceivers that require it.

10. Select the CW page
11. Select WinKey as the CW Device type.
12. Set External keyer to the virtual port you chose for WinKey on Router's Ports tab.
13. If you are using the LPT interface for transceiver selection, set the Radio 1/2 signal to the port connected to *micro*2R and check "Reverse".



14. Set the "Software CW keying / PTT control" to the PTT port you defined in Router's Ports screen and set RTS line to "PTT control". This will be used for PSK31 and AFSK PTT.
15. If you will be using a microHAM CAT/CI-V interface to select rigs, open the Radio page and check "DTR high" for the radio with the microHAM Interface.



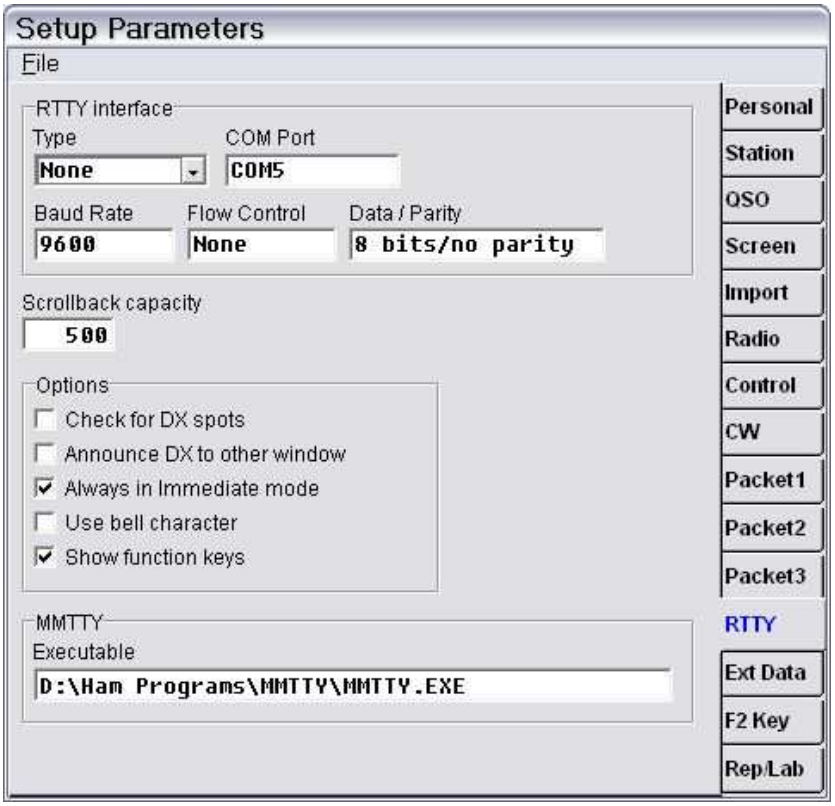
16. Select the Control page.

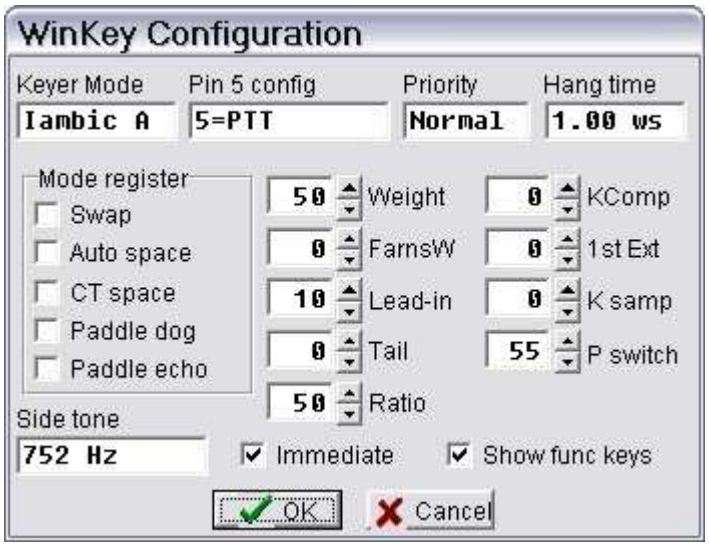
17. Set the **PSK sound** card Input and Output to the sound card you use for PSK.

NOTE: Although *micro*2R will switch the PSK31 PTT between radios, it does not switch digital interfaces. As such, the digital configuration is identical to that used with your existing digital interface and the configuration will need to be changed to change from Radio 1 to Radio 2 for digital operation. This information is provided as a matter of convenience. Please refer to the DX4Win Help and the documentation for your particular interface when configuring PSK31support.

18. Select the RTTY page.

19. Enter the path to the MMTTY Executable file.

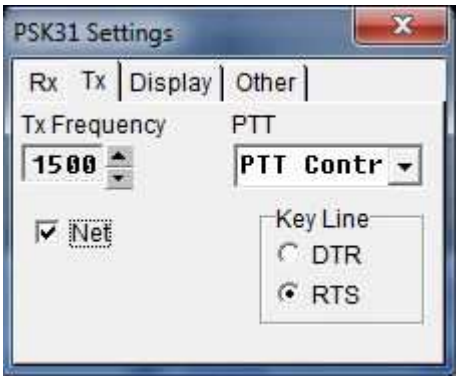




20. Open the CW Keyboard (ALT-K)

21. Open the CW Keyboard settings (ALT-S)

22. These settings are ignored. The values in the Router CW/WinKey tab override any settings made here.



23. Open the PSK31 window (ALT-3)

24. Open the PSK31 settings (ALT-S)

25. Select the TX tab and set PTT to the PTT to "PTT Control" and select RTS as the Key Line.

26. Open the MMTTY Window

27. Open the MMTTY Window Keying Setup (ALT-S)

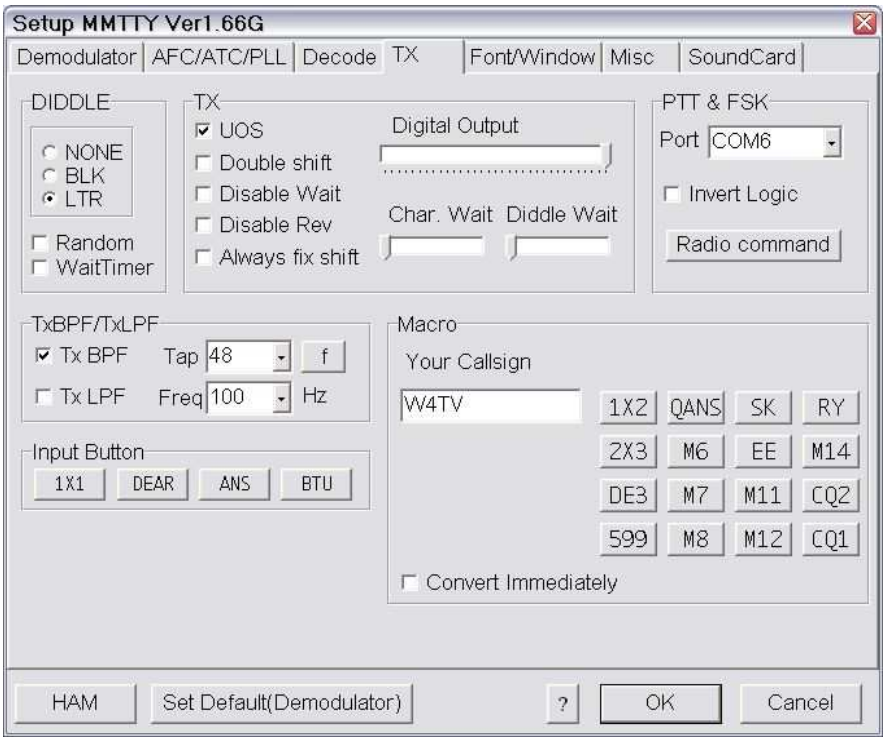
28. Select "PTT control" and RTS

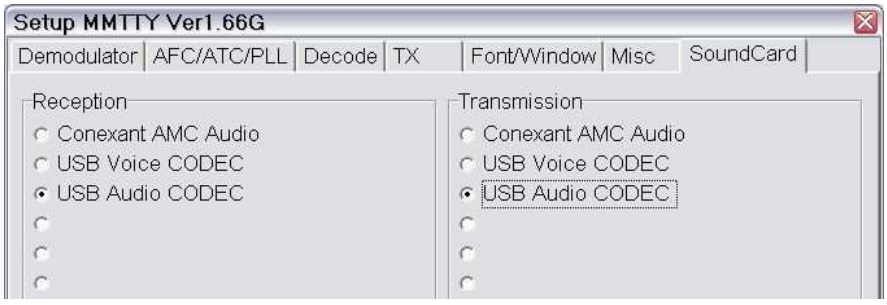
MMTTY setup:

NOTE: Although *micro*2R will switch the FSK and PTT between radios, it does not switch digital interfaces. As such, the digital configuration is identical to that used with your existing digital interface and the configuration will need to be changed to change from Radio 1 to Radio 2 for digital operation. The information below is provided as a matter of convenience. Please refer to the DX4Win Help and documentation for your particular interface when configuring MMTTY/RTTY support.

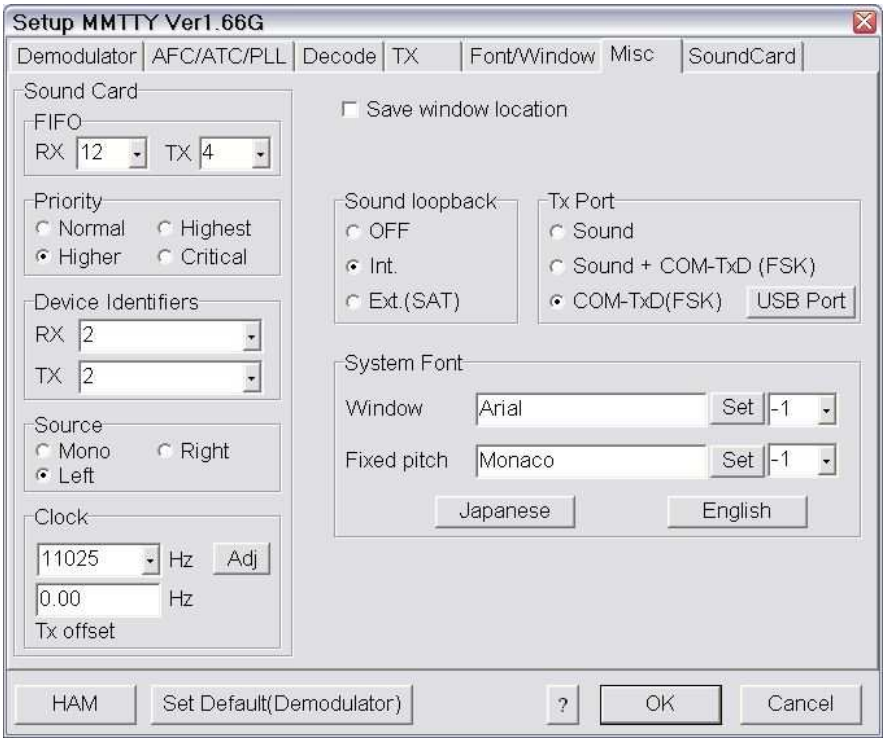
If you plan to operate FSK with the MMTTY window you will need to first configure MMTTY in stand-alone mode. MMTTY version 1.66g or later is recommended as it significantly simplifies the audio configuration process.

1. Open MMTTY from the Windows Start menu.
2. Select **Options | Setup MMTTY**.
3. Select the TX Tab
4. Choose the FSK port you set on Router's Ports tab for the PTT Port.





5. Choose the **SoundCard tab**.
6. Select sound card used with your interface.



7. Choose the **Misc Tab**.
8. Select COM-TxD (FSK) for the TX Port.

   If you want the option to switch between AFSK and FSK, select Sound + COM-TxD (FSK)

9. Click **USB port** button and choose **C: Limiting speed**
10. Close MMTTY