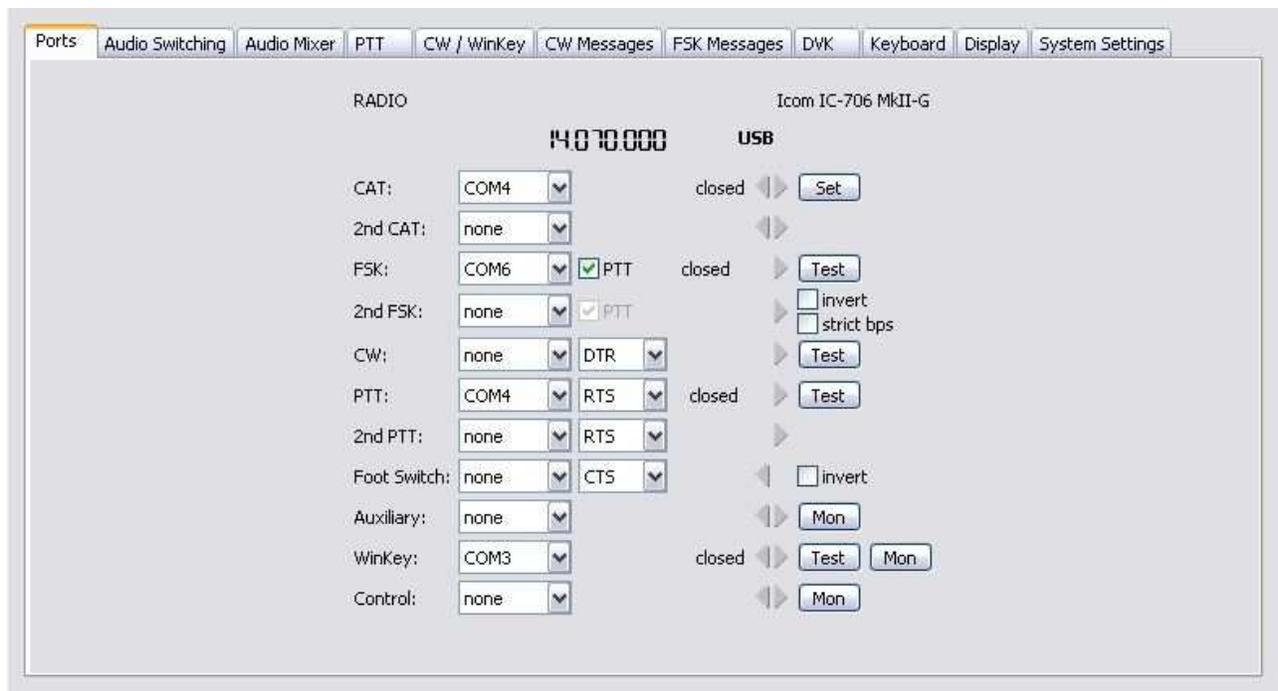# _micro_KEYER II and DX4Win Setup

Router setup:

Note: The absolute port numbers do not matter. The key is consistency - the same port number must be used for a specific function every time it is used.

1. Assign the radio control virtual COM port. Click the **Set** button and select the radio from the drop down box. Uncheck the **Disable router queries** box.

2. Assign a port for WinKey

3. Assign the same port for PTT as you used for the Radio.

4. Assign a port for FSK and check the PTT box. If your radio does not support FSK or you will be using AFSK, you can skip this step.

5. On the **PTT** tab, select **PTT1** for Voice, **PTT1 or QSK** for CW and **PTT2** for DIGITAL/FSK.

6. Save the settings to a preset by selecting **Preset | Save as.** Choose a position and name it DX4Win.
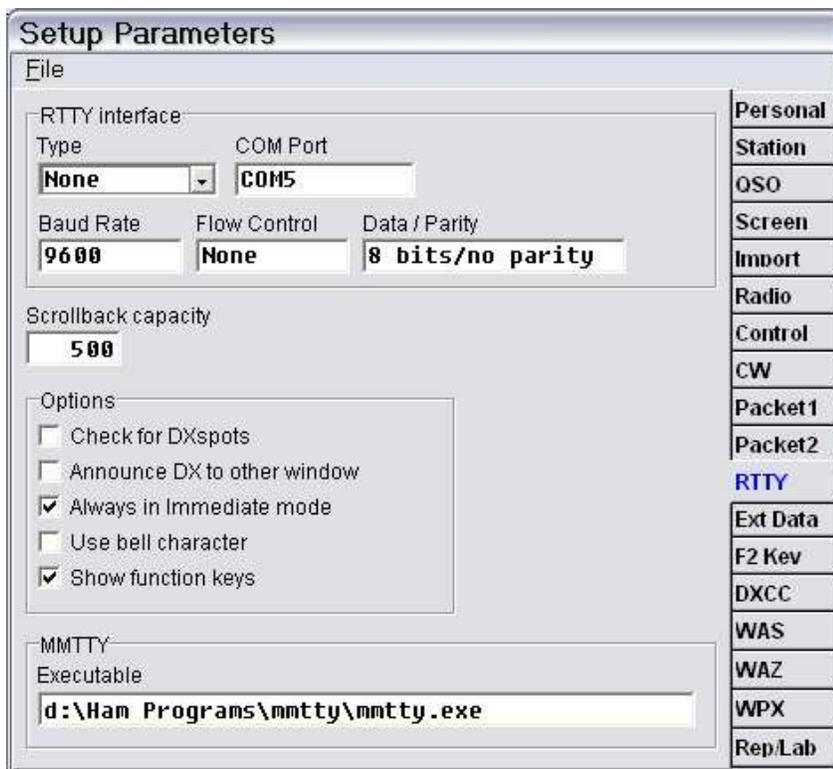
DX4Win setup:

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

Setup Parameters
File

Radio
Type: YaesuFT2000-V8c   Address: 00   Baudrate: 4800
☑ Default   ☑ Default

Notes for radio
Modified by ON4AOI and K2RD

COM Port: COM4   Poll rate (ms): 500   Max tries: 6
☑ DTR high
☐ RTS high

Second Radio
Type: None   Address: 00   Baudrate: 0
☑ Default   ☑ Default

Notes for radio

COM Port: COM1   Poll rate (ms): 500   Max tries: 6
☑ DTR high
☐ RTS high

Tabs: Personal | Station | QSO | Screen | Import | Radio | Control | CW | Packet1 | Packet2 | RTTY | Ext Data | F2 Key | DXCC | WAS | WAZ | WPX | Rep/Lab

2. Select the Radio page and assign your radio Assign the radio to the virtual COM port you used in Router's Ports tab

3. Set the baudrate required by your radio.

4. For Icom and certain TenTec radios, set the CI-V address.

5. Select the CW page

6. Select WinKey as the CW Device type

7. Set the virtual port you chose for WinKey on Router's Ports tab for the External Keyer.

8. Set the virtual port you chose for Control and PTT on Router's Ports tab for PTT control. Select PTT control for the RTS line.

Setup Parameters
File

Device type: WinKey   Radio 1/2 signal: None

Software CW keying / PTT control
Interface: COM4   PTT delay: 10   DTR line: None   RTS line: PTT control

External keyer
Port: COM3

Tabs: Personal | Station | QSO | Screen | Import | Radio | Control | CW | Packet1 | Packet2 | RTTY | Ext Data | F2 Key | DXCC | WAS | WAZ | WPX | Rep/Lab
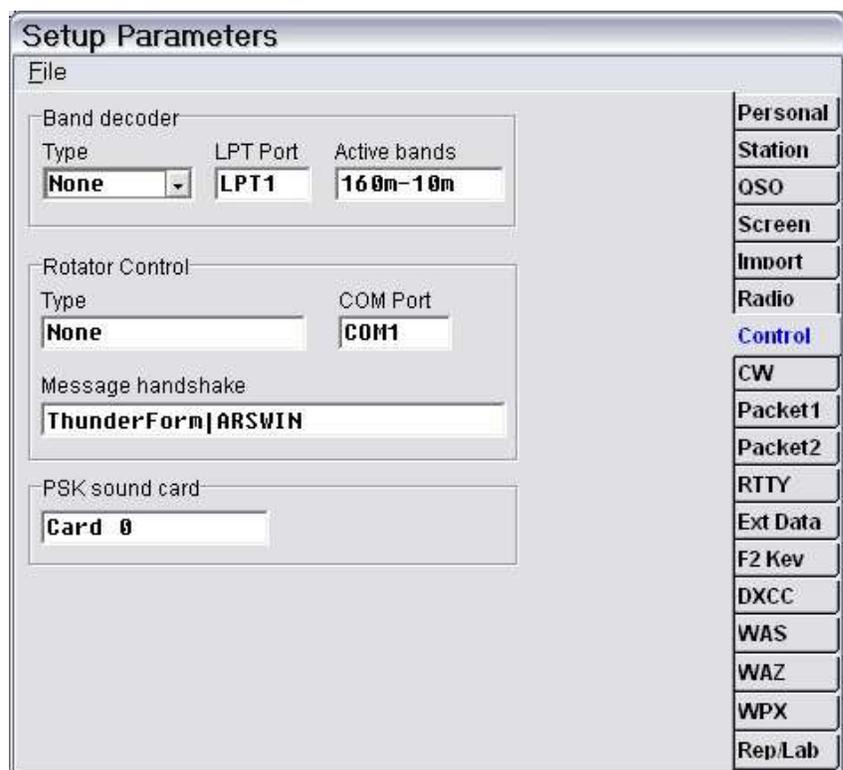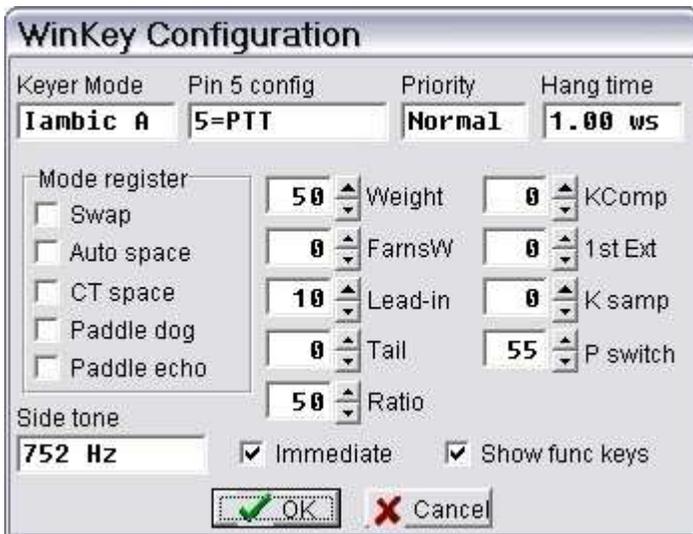
9. Select the RTTY page.

10. Enter the path to the MMTTY Executable file.

11. Select the Control page.

12. Select the **PSK sound card.**

To obtain the proper card number, click the **Get ID** button on Router's **Audio Mixer** tab and use the **Mixer ID**.

WinKey Configuration

Keyer Mode: Iambic A
Pin 5 config: 5=PTT
Priority: Normal
Hang time: 1.00 ws

Mode register
- [ ] Swap
- [ ] Auto space
- [ ] CT space
- [ ] Paddle dog
- [ ] Paddle echo

50 Weight
0 FarnsW
10 Lead-in
0 Tail
50 Ratio

0 KComp
0 1st Ext
0 K samp
55 P switch

Side tone: 752 Hz

[x] Immediate [x] Show func keys

OK   Cancel

13. Open the CW Keyboard (ALT-K)

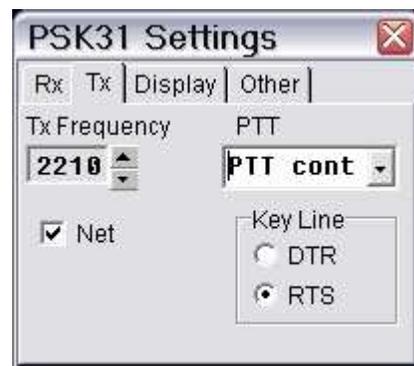14. Open the CW Keyboard settings (ALTS)

15. Configure the settings you prefer for CW operation including weight, PTT or QSK operation, etc.

   It is generally most convenient to make the CW parameters the same as you have set on Router's CW/WinKey tab.

16. Open the PSK31 window (ALT-3)

17. Open the PSK31 settings (ALT-S)

18. Select the TX tab and set PTT to "PTT control"

PSK31 Settings

Rx | Tx | Display | Other

Tx Frequency: 2210
PTT: PTT cont
[x] Net
Key Line
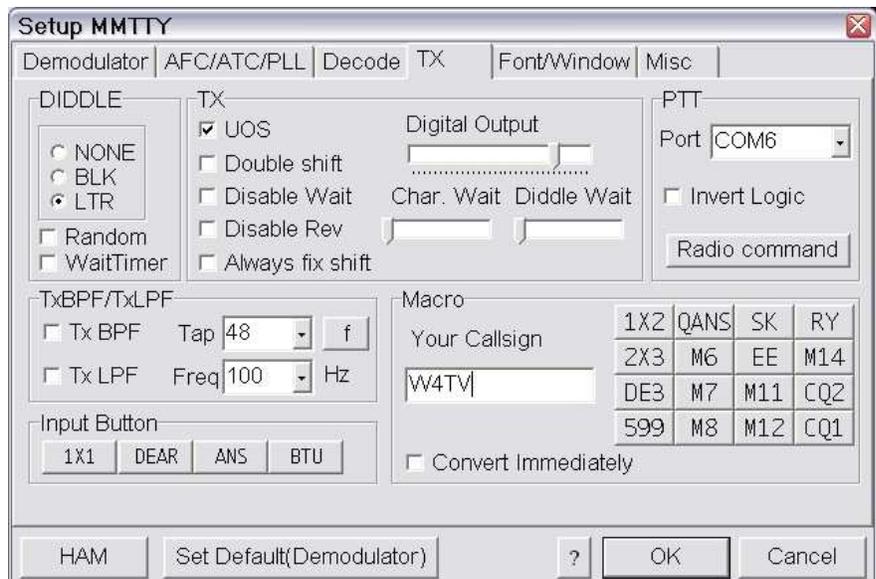( ) DTR
(•) RTS

MMTTY setup:

If you plan to operate FSK with the MMTTY window you will need to first configure MMTTY in stand-alone mode.
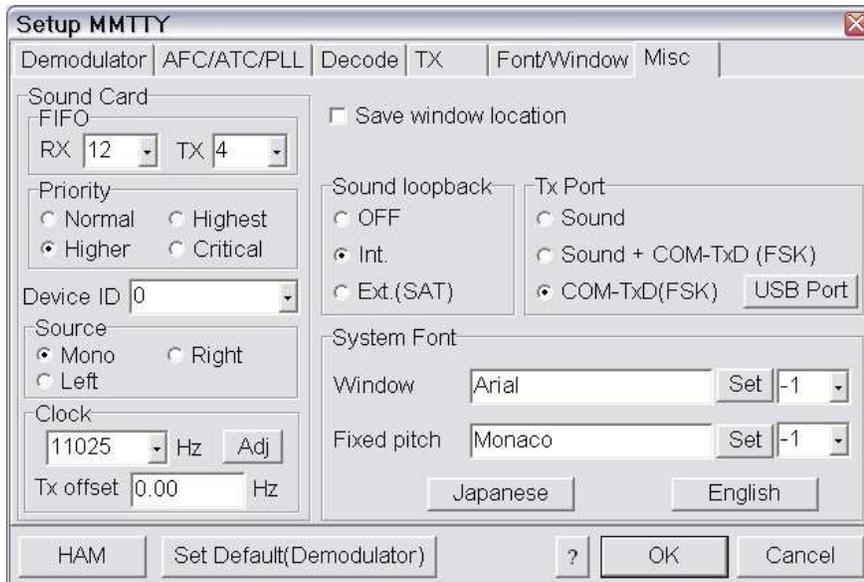
19. Open MMTTY from the Start menu.

20. Select **Options | Setup MMTTY**.

21. Select the TX Tab

22. Choose the FSK port you set on Router's Ports tab for the PTT Port.

Setup MMTTY

Demodulator | AFC/ATC/PLL | Decode | TX | Font/Window | Misc

DIDDLE
- ( ) NONE
- ( ) BLK
- (•) LTR
- [ ] Random
- [ ] WaitTimer

TX
- [x] UOS
- [ ] Double shift
- [ ] Disable Wait
- [ ] Disable Rev
- [ ] Always fix shift

Digital Output
Char. Wait   Diddle Wait

PTT
Port: COM6
[ ] Invert Logic
Radio command

TxBPF/TxLPF
- [ ] Tx BPF   Tap 48   f
- [ ] Tx LPF   Freq 100   Hz

Input Button
1X1 | DEAR | ANS | BTU

Macro
Your Callsign
W4TV
[ ] Convert Immediately

1X2	QANS	SK	RY
2X3	M6	EE	M14
DE3	M7	M11	CQ2
599	M8	M12	CQ1

HAM | Set Default(Demodulator) | ? | OK | Cancel

23. Choose the **Misc Tab**.

24. Select **Source Mono**

25. Select clock **11025**

26. Select the proper Sound card **Device ID** number.

    To obtain the proper ID, click the **Get ID** button on Router's **Audio Mixer** tab.

27. Select COM-TxD (FSK) for the TX Port. If you want the option to switch between AFSK and FSK, select Sound + COM-TxD (FSK)

28. Click **USB port** button and choose **C: Limiting speed**

29. Close MMTTY

30. Start DX4Win and open the MMTTY Window

31. Open the MMTTY Window Keying Settings (ALTS)

32. Select "PTT control" and RTS