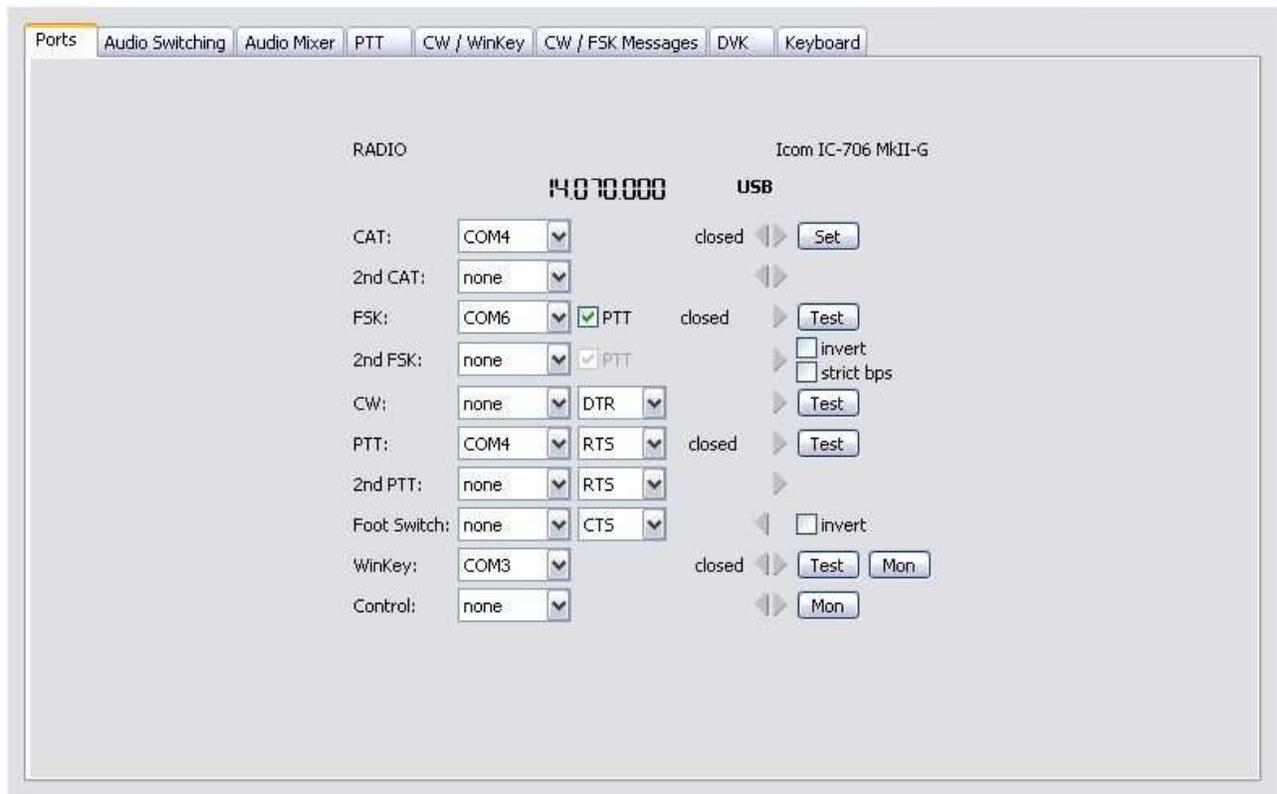# *micro*KEYER and DXLab Suite

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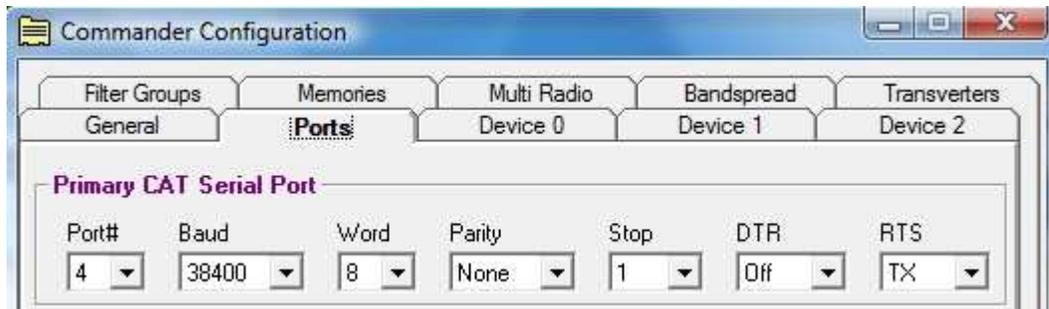
1. Assign the radio control virtual COM port.  Click the **Set** button and select the radio from the drop down box.  Uncheck the **Disable router queries** box.

2. Assign a port for WinKey.

3. Assign a port for FSK –  check the PTT box.

4. Assign the same port for PTT as you assigned for Control.



5. Select **Follow radio** mode on the **Audio Switching** tab.   Use ACA for **Voice** Modes.
   If you do not intend to use WinWarbler for Phone - use AAA.

6. On the **PTT** tab, select **PTT1 (microphone jack)** for CW and Voice modes.  For FSK/DIGITAL select **PTT2 (rear panel jack)**.  If you operate QSK in CW select **No PTT** for CW.

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

# CI-V Commander setup:

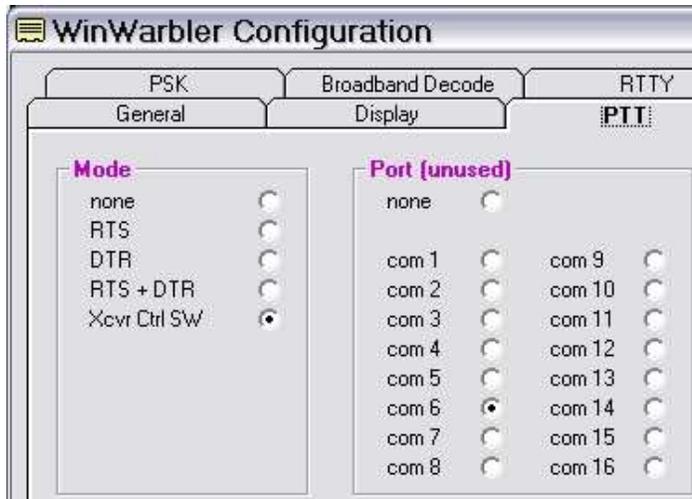1. Click **Config** and select the **Ports tab** ...



2. Select the virtual COM port you used for control in Router's Ports tab

3. Select the Baud Rate, Parity, Word Length, and Stop Bits settings required by your radio.

4. Set DTR "always off"

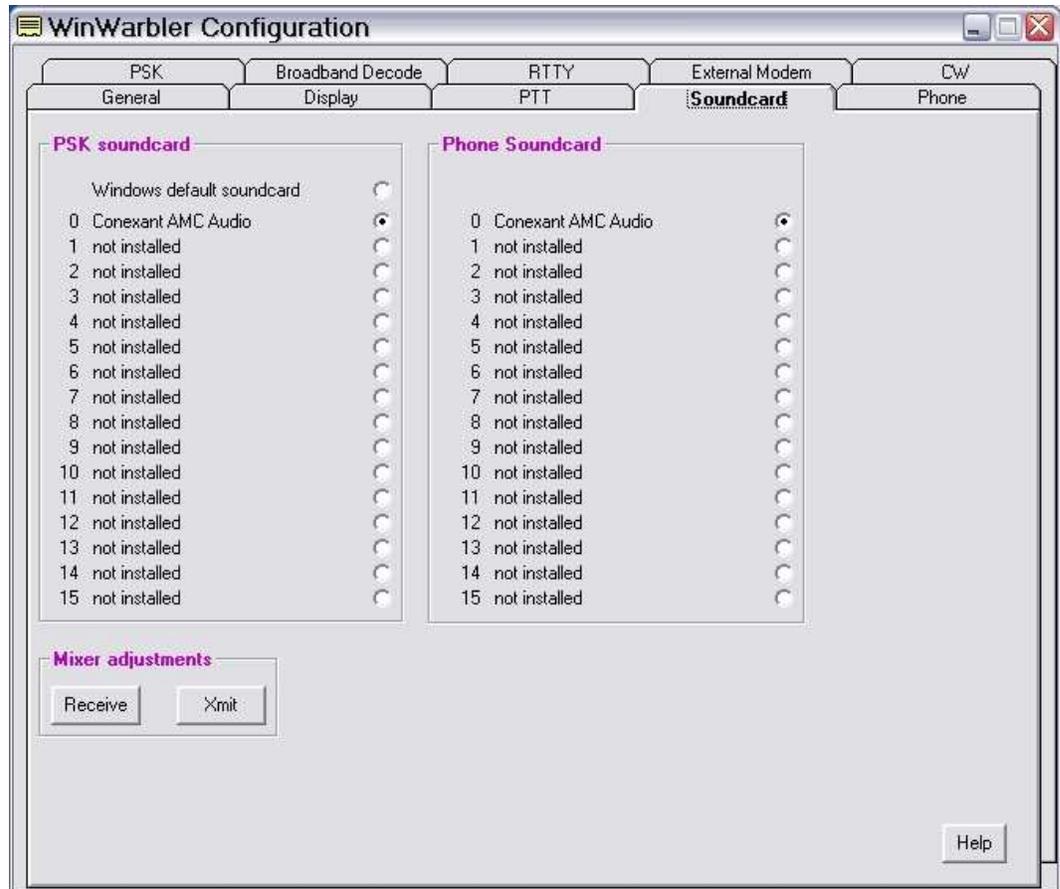5. Set RTS "on to xmit" - this is PTT

# WinWarbler setup:

**Note:** It is important to execute the following steps in order.  Otherwise PTT, FSK and CW sharing will not operate properly.

This configuration is for WinWarbler with Commander. To configure and run WinWarbler in stand-alone mode or with another logger, see the separate *microKEYER and WinWarbler Setup Guide*.

The user has the option to configure WinWarbler for either FSK or AFSK.  Configuration information is provided for both options.
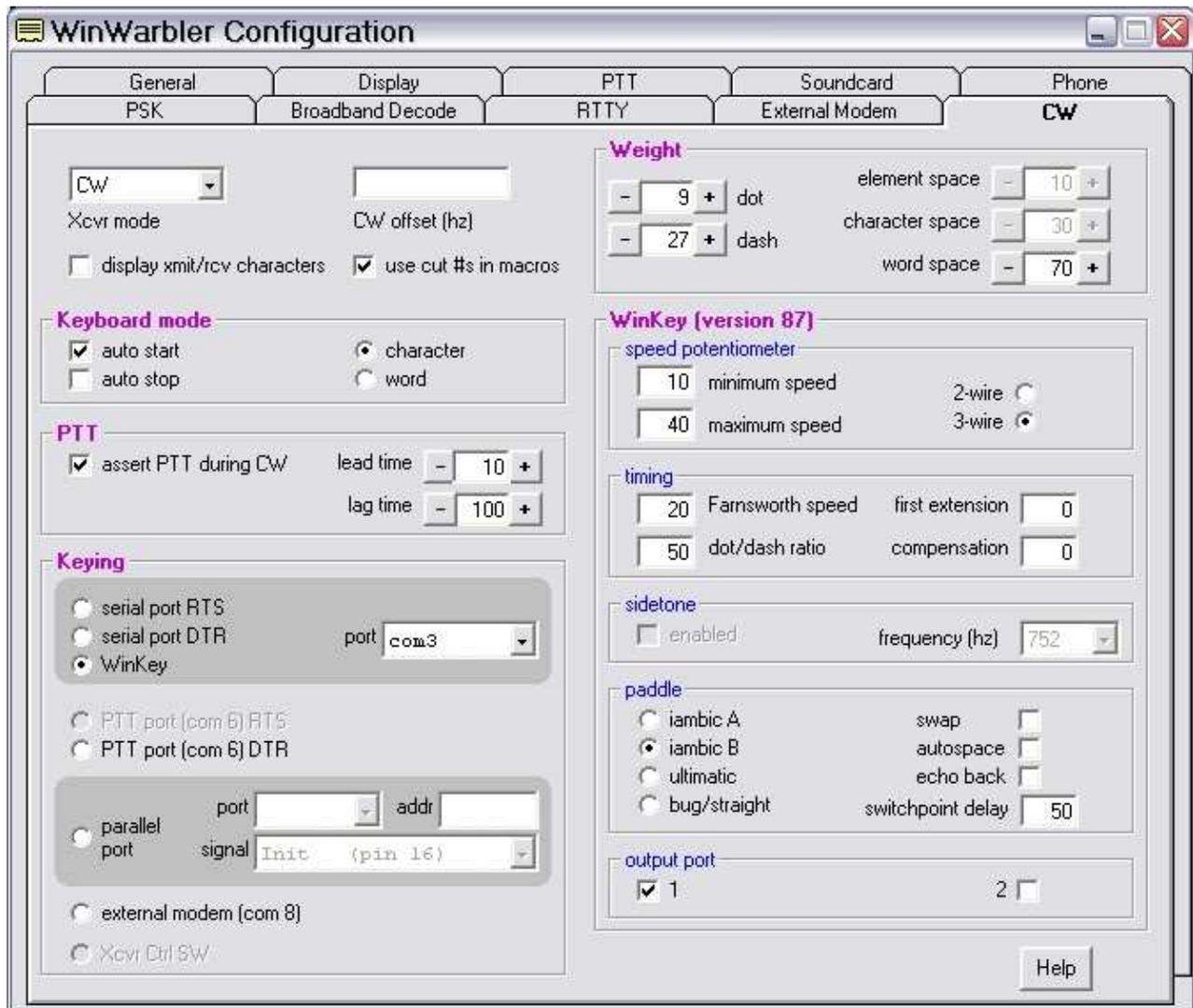


1. Click **Config** and select the **PTT tab** …

2. Select "Xcvr Ctl SW" as the Mode. WinWarbler will direct commander to assert PTT in Phone (Voice) and PSK modes.

3. Select the port you defined for FSK in the "Port" box.  This will be used for MMTTY FSK and PTT.

4. Select the Soundcard Tab

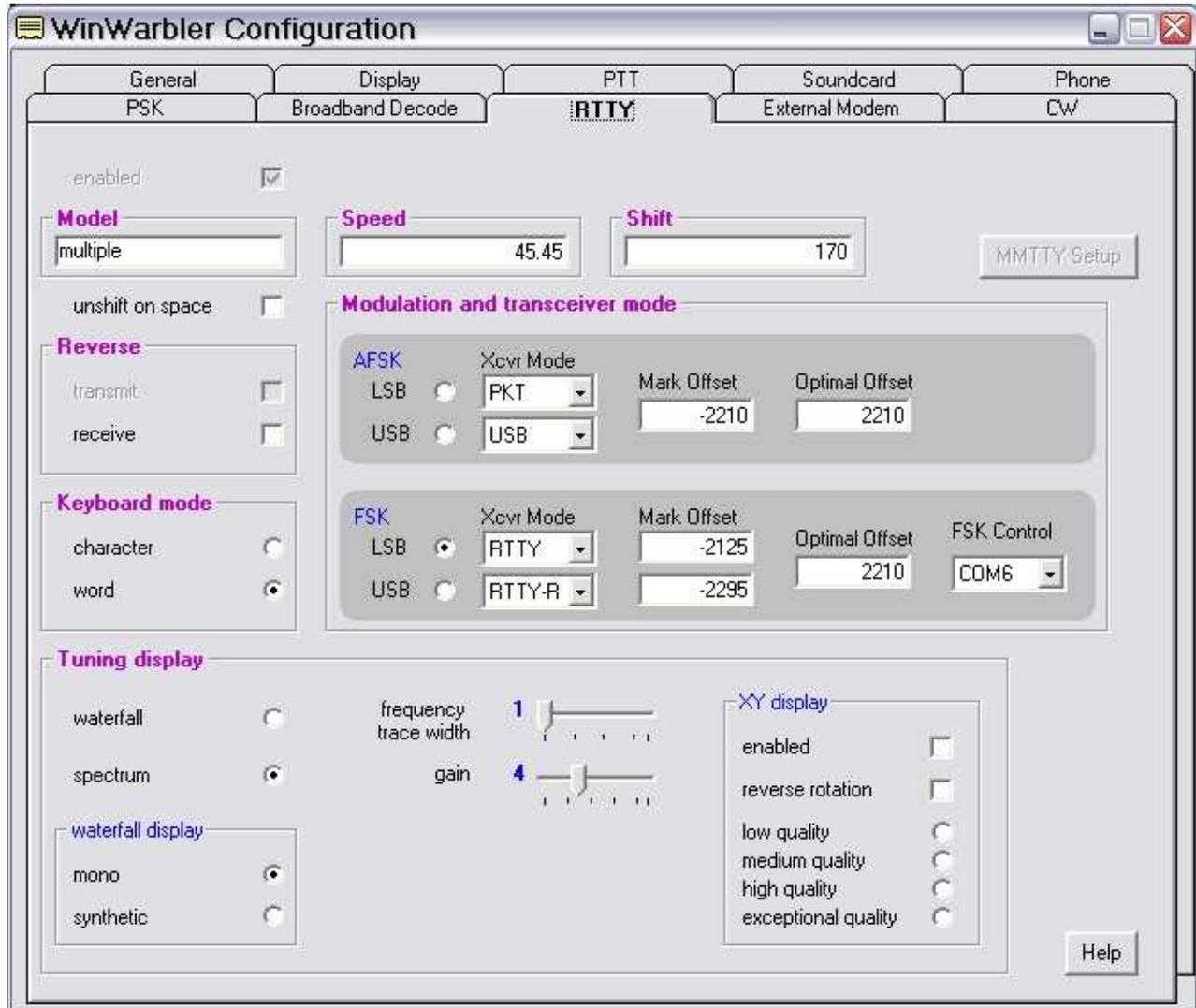5. Choose the soundcard you will use for PSK and Phone.

# CW setup:

1. Switch WinWarbler to CW Mode

2. Open the WinWarbler's Configuration and select the **CW Tab**.



3. Select **WinKey** in the Keying box and set the Port that you chose for Winkey in Router.

4. Configure the settings you prefer for CW operation including weight, and PTT or QSK operation.
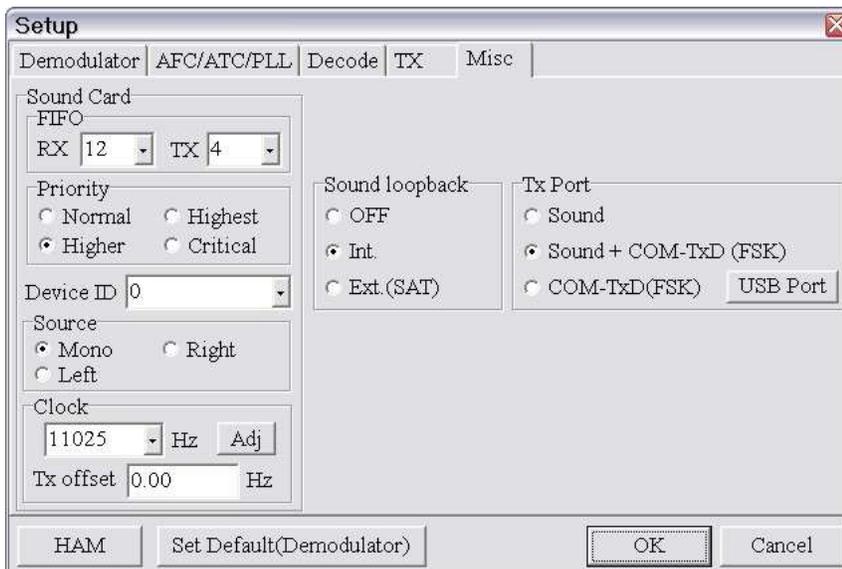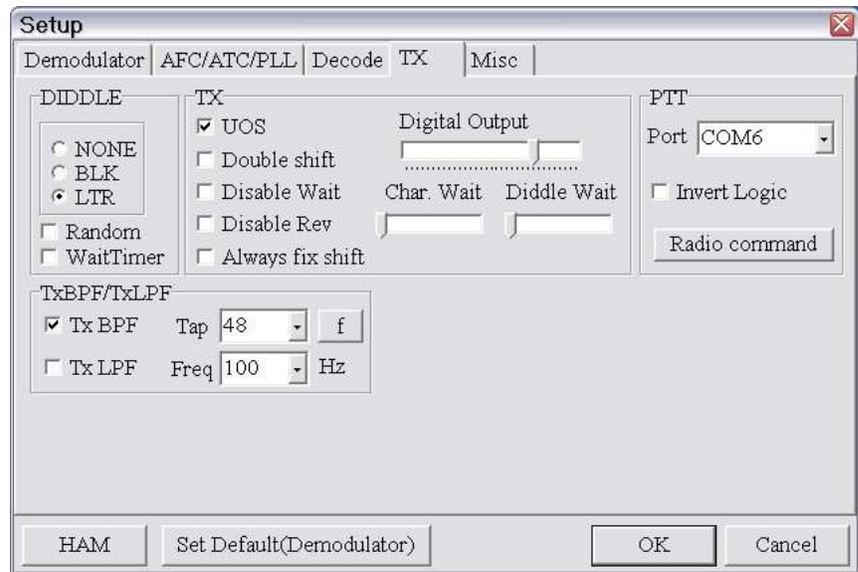
# RTTY/MMTTY setup (FSK):

1. Switch WinWarbler to RTTY mode.

2. Click **Config** and select the **RTTY tab** ...



3. Configure the FSK Settings as needed by your radio

4. Set FSK Control to the port you selected for FSK in Router.

5. Click on the **MMTTY Setup** button …

6. Select the **TX Tab …**

7. Select the Port you configured for FSK in Router's Ports Tab in the PTT box.

8. Select the **Misc Tab …**

**Setup**

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

DIDDLE
- ○ NONE
- ○ BLK
- ○ LTR
- □ Random
- □ WaitTimer

TX
- ☑ UOS
- □ Double shift
- □ Disable Wait
- □ Disable Rev
- □ Always fix shift

Digital Output
Char. Wait   Diddle Wait

TxBPF/TxLPF
- ☑ Tx BPF   Tap 48   f
- □ Tx LPF   Freq 100   Hz

PTT
Port COM6
□ Invert Logic
Radio command

HAM   Set Default(Demodulator)   OK   Cancel

**Setup**

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

Sound Card
FIFO
RX 12   TX 4

Priority
- ○ Normal   ○ Highest
- ○ Higher   ○ Critical

Device ID 0

Source
- ○ Mono   ○ Right
- ○ Left

Clock
11025   Hz   Adj
Tx offset 0.00   Hz

Sound loopback
- ○ OFF
- ○ Int.
- ○ Ext.(SAT)

Tx Port
- ○ Sound
- ○ Sound + COM-TxD (FSK)
- ○ COM-TxD(FSK)   USB Port

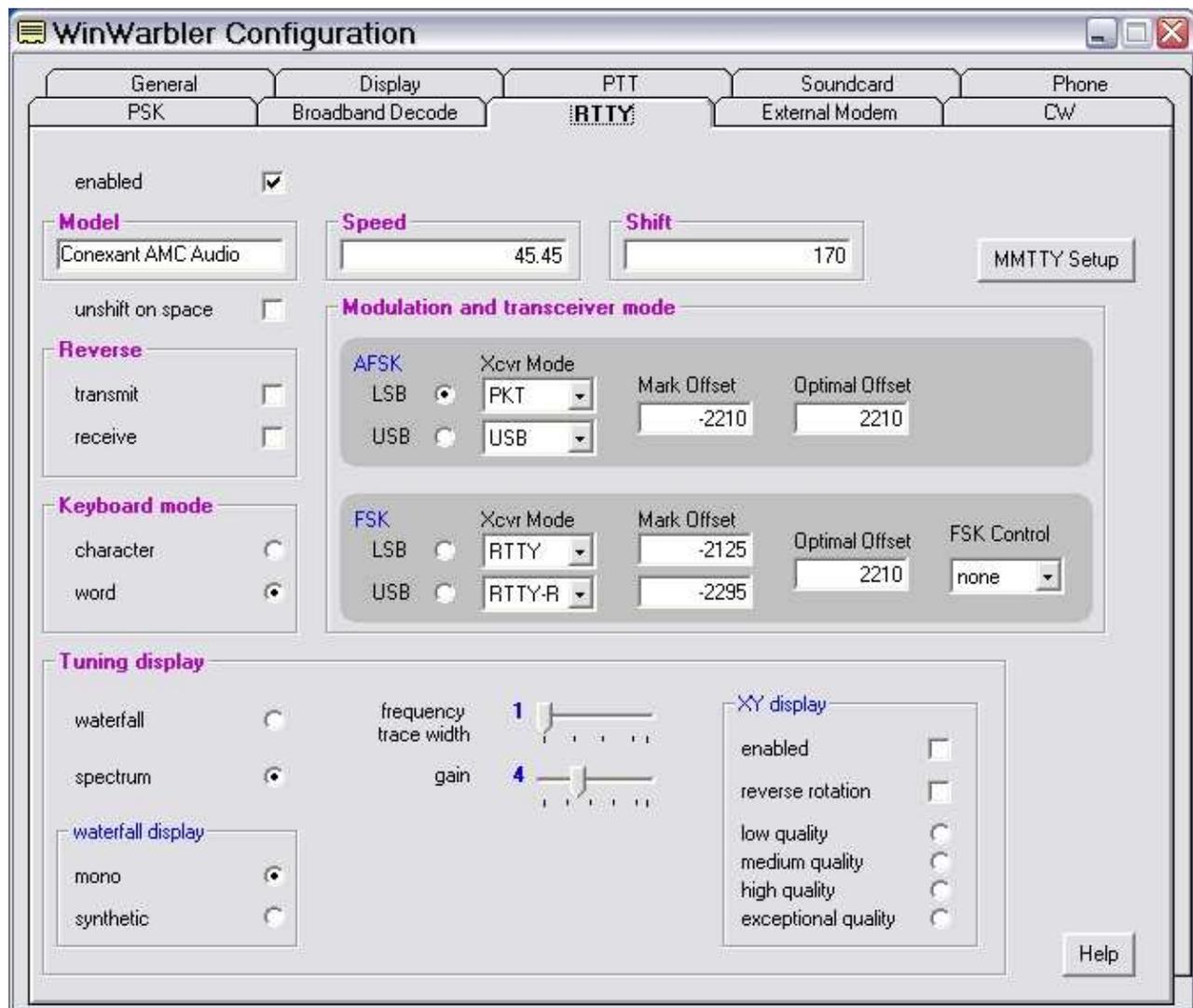HAM   Set Default(Demodulator)   OK   Cancel

9. Select Source **Mono**

10. Set Clock **11025**

11. Select the proper sound card **Device ID**

12. To obtain the proper ID, click **Get ID** button at the Router **Audio Mixer** tab or from WinWarbler's **Soundcard** tab.

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

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

**USB Port Option**

Processing method
- ○ A: Normal
- ○ B: Polling
- ○ C: Limiting speed
- ○ D: Polling and Limiting speed

Please try to test B, C, D, if you have a trouble in the USB-COM adaptor. (C)Limiting speed seems to be well.
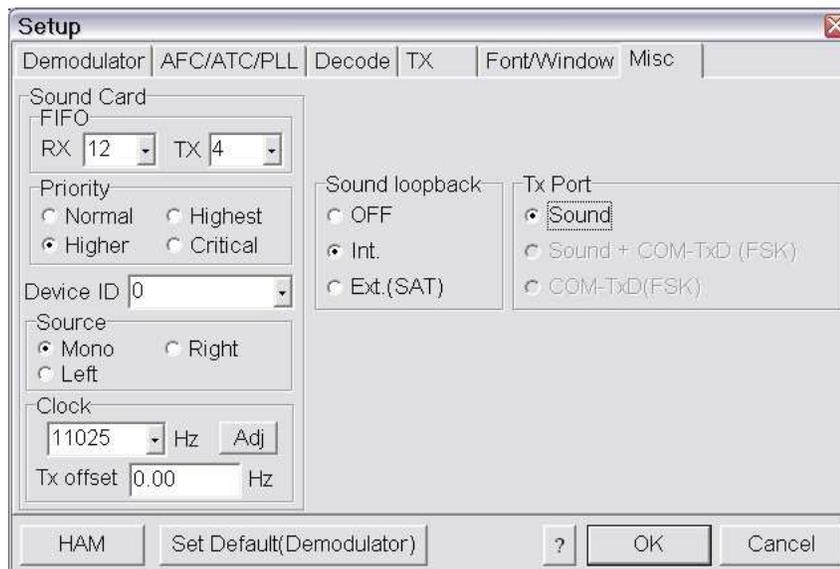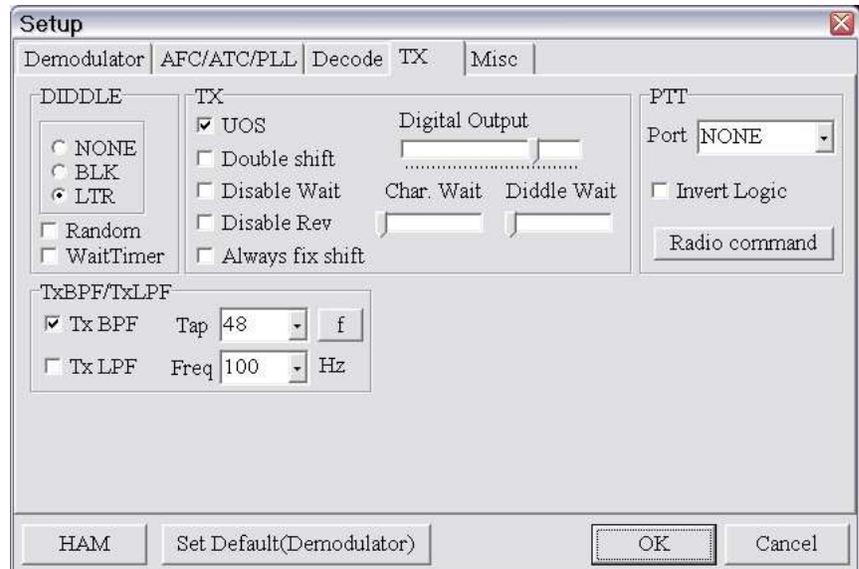
OK   Cancel

# RTTY/MMTTY setup (AFSK):

1. Switch WinWarbler to RTTY mode.

2. Click **Config** and select the **RTTY tab** ...



3. Configure the AFSK Settings required by your radio.

4. Set FSK Control to None

5. Click on the **MMTTY Setup** button ...

6. Select the **TX Tab ...**

7. Select NONE in the PTT Port box.

8. Choose the **Misc Tab.**



9. Select Source **Left**

10. Set Clock **11025**

11. Select the proper sound card **Device ID**

12. The Device ID is available from WinWarbler's **Soundcard** tab or by clicking the **Get ID** button on Router's **Audio Mixer** tab.

13. Select "Sound" as the TX Port.