# MK2R/MK2R+ and WriteLog 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 WriteLog.**

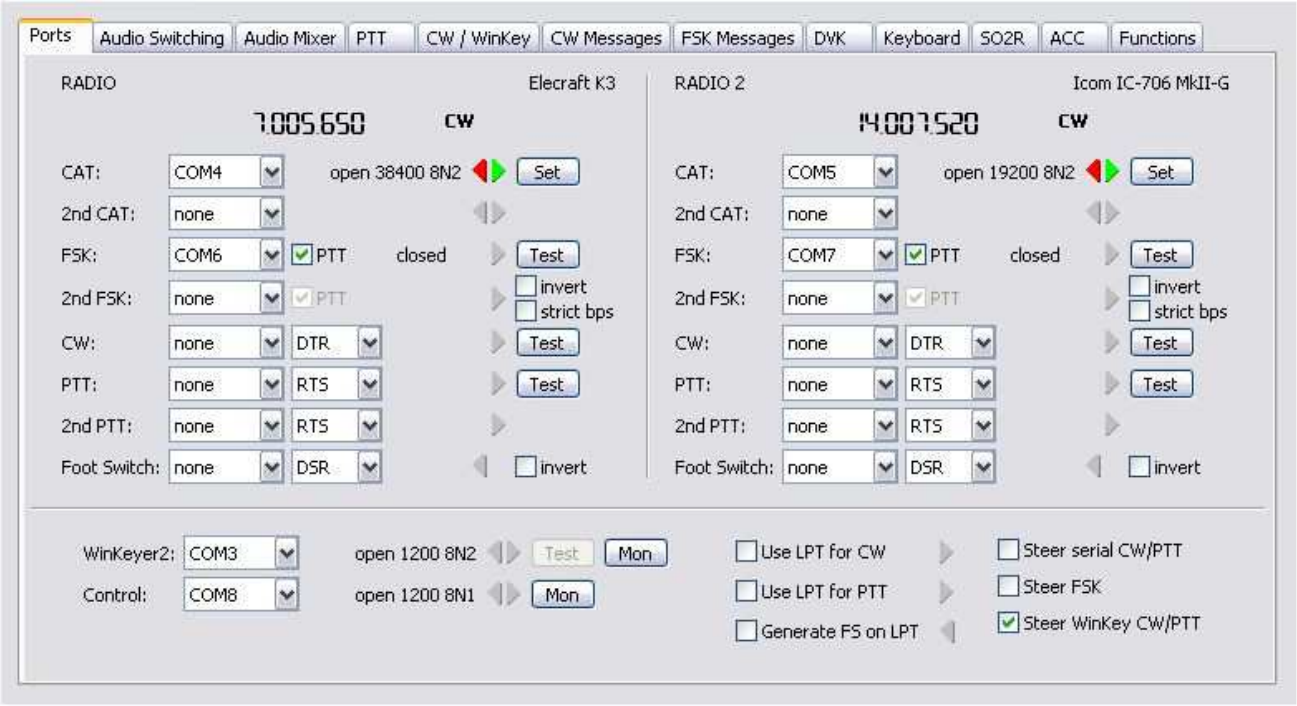
1. Assign virtual COM ports for control of both radios. Click the **Set** button for each radio and select the radio on that port from the drop down box. Uncheck **Disable router queries** box.

2. Assign a port for FSK, check PTT but do not check "strict bps." If you use the original MMTTY plug-in, the FSK Port must be COM1 – COM8. If you use the new XMMT.ocx plug-in, the FSK port may be between COM1 and COM16.

3. Assign a port for WinKey. Select the appropriate PTT output and QSK or PTT operation for each radio on Router's PTT tab.

4. Select the audio switching for EACH radio on the **Audio Switching** tab.
   CmCmA is recommended for **Voice** Modes. If you do not intend to change DVK messages "live" you can use ACmA.

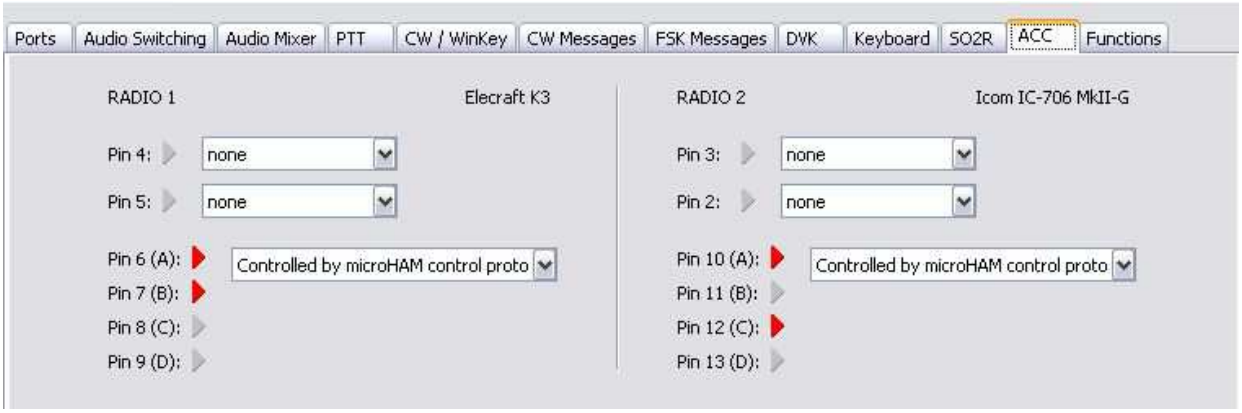
5. Assign a port for Control. WriteLog will use this port to control MK2R or MK2R+.



6. Select "microHAM control protocol on COM port" on the **SO2R** tab. This setting permits WriteLog to control:
   - **Transmit Focus**
   - **Receive Focus**
   - **Headphone Split**
   - **Headphones Reverse**
   - **Antenna Relay**

7. Band Decoding (Band Relay) is enabled on the Accessory tab. See the WriteLog Help file [BandRelayEncode] topic for information on configuring antenna selection by band.

   Set pins 6-9 and 10-13 to "Controlled by microHAM control protocol" to allow WriteLog to use them for "Band Data" (Band Relay).



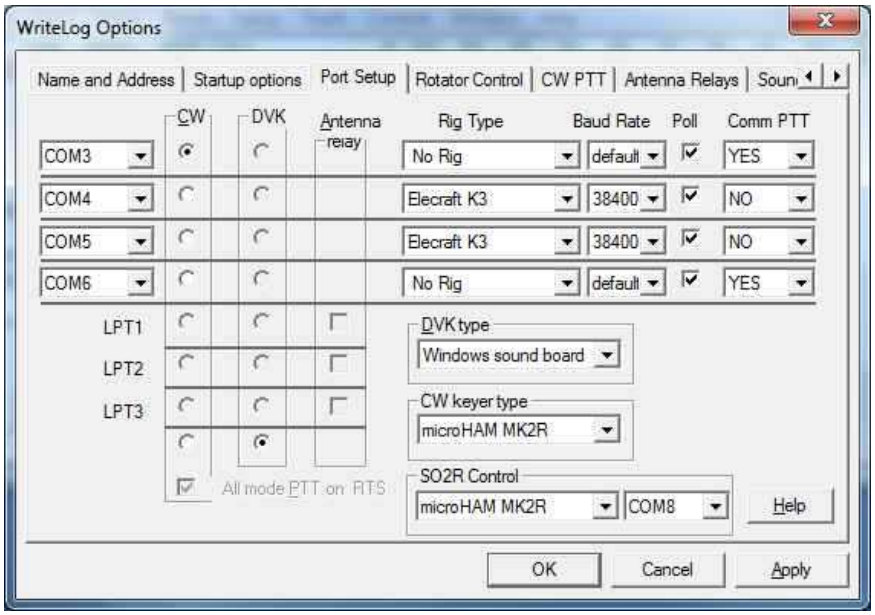

8. Save settings to a preset by selecting menu **Preset | Save as.** Choose a position and name it WriteLog.

# WriteLog setup:

## Audio configuration:

1. Open the WriteLog sound board mixer control by clicking on: **START | Programs | WriteLog v10 | Sound board mixer control**
2. Set xmit from PC: USB Voice CODEC
3. Set DVK mic: USB Voice CODEC
4. Set rec to PC: USB Audio CODEC
5. Assign Audio review to any appropriate sound card. USB Audio CODEC can be selected by the headphones or you can use another sound card in your computer.

## WriteLog Port configuration

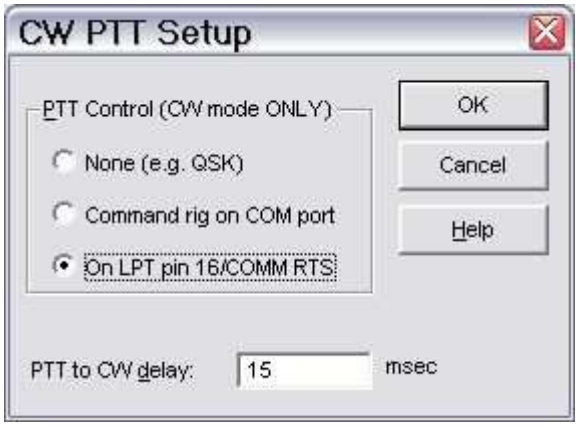



6. Open WriteLog and select Setup | Ports
7. Assign each radio to the virtual COM port you used in Router's Ports tab.

**Note: ALWAYS set Comm PTT to NO for ALL radios.**

8. Select **microHAM MK2R** as the CW keyer type.
9. Set SO2R Control to **microHAM MK2R** and the port to the the virtual port you used for Control in Router.
10. Set DVK type to **Windows sound board**

11. Click CW PTT and select "On LPT pin16/COMM RTS." If you prefer QSK, check "None" and set CW PTT to QSK or Semi Break-in for each radio on Router's PTT tab.
12. Click "OK" to close Setup
13. Save the configuration with **Setup | Save Configuration**



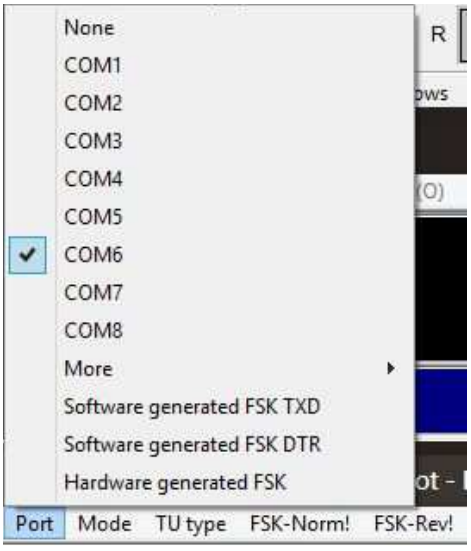
# RTTY/Digital setup:

1. If you have not already set up WriteLog for two radio operation, select **Radio | Number of Radios | 2**. Label Radio 1 = Left and Radio 2 = Right.
2. Beginning in version 11.11, there are 12 different combinations for FSK transmission and five combinations for AFSK transmission with WriteLog and MK2R+. This guide will document two options for FSK and two options for AFSK: the "old" MMTTY plug-in by SM6SRW and the new XMMT.ocx interface.
3. If you have not already done so, create **at least** two directories for MMTTY (and 2-Tone if you plan to use it). If you will be using cloned windows, you will need to create an additional directory for each clone.
4. Each Installation will need to be done twice – once for Radio 1 (Left) and once for Radio 2 (Right). This guide will document the installation/set-up for Radio 1 (left). The installation for Radio 2 will be similar except that FSK will use a different port and audio will use the right channel of the sound card.

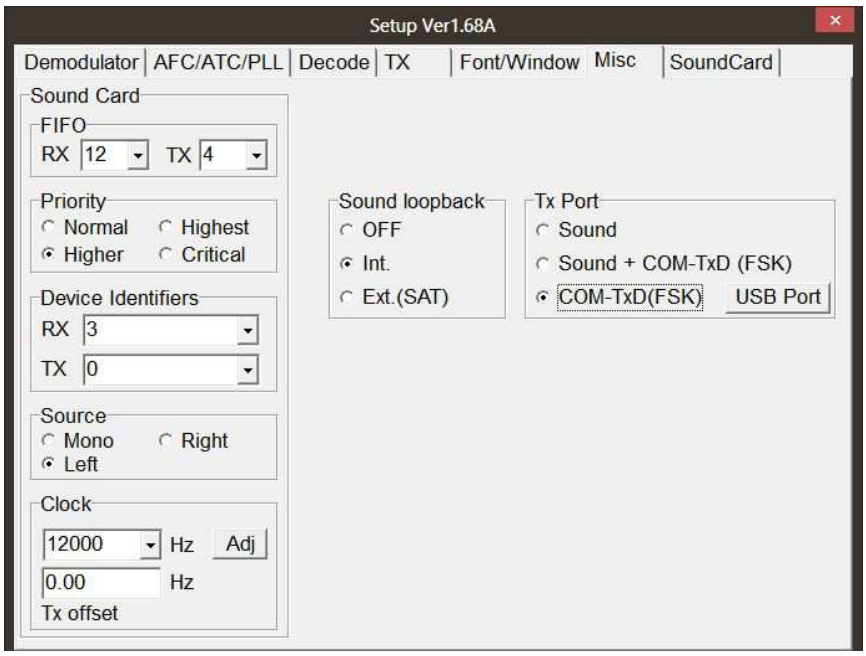
# RTTY/Digital setup (FSK):

## Configuring the MMTTY Plug-in for WriteLog by SM6SRW for FSK:

1. Install the MMTTY Plug-in for WriteLog by SM6SRW.
2. Activate the Left Radio entry window and click on **Window | RTTY Window** to open the first RTTY window.




3. Open the WriteLog RTTY Window and select the same port as you assigned for FSK in Router.
4. **DO NOT** select Hardware generated FSK.
5. Select MMTTY as the TU Type and set the path to MMTTY.exe if prompted.
6. Click on TNC Setup then click the MMTTY Settings button to configure MMTTY.

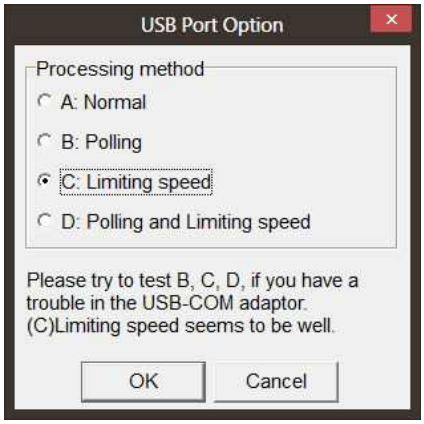



**7.** Choose the Misc Tab.

**8.** Select **Source LEFT**

**9.** Select clock 12000

**10.** Select COM-TxD (FSK) for the TX Port.



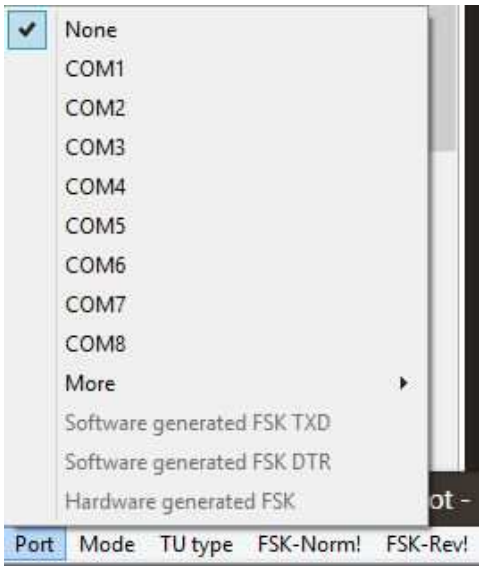

**11.** Click the **USB port** button and choose **C: Limiting speed**

**12.** Select "Microphone (USB Audio CODEC)" for Reception in the Sound Card tab.

## Configuring XMMT.ocx for FSK using MMTTY

**1.** If you have not already installed XMMT.ocx or previously used another logging package that installed XMMT.ocx, see: http://www.rttycontesting.com/writelog/xmmt/xmmt.pdf (thanks Don, AA5AU).

**2.** Activate the Left Radio entry window and click on **Window | RTTY Window** to open the first RTTY window.

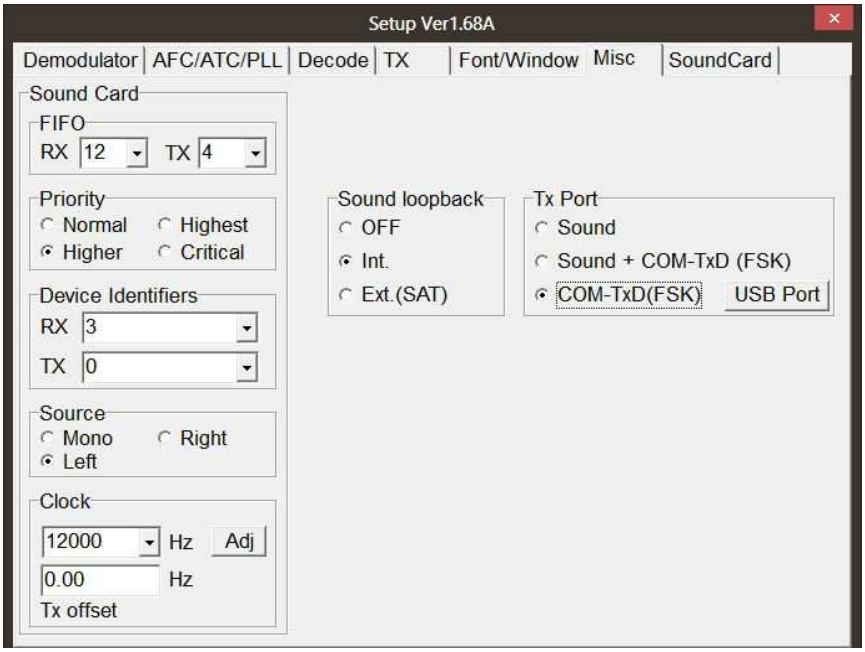



**3.** Open the WriteLog RTTY Window and set Ports to **None**.

**4.** Select XMMT.ocx as the TU Type

**5.** Click TNC Setup and set the **full path** to MMTTY.exe

**6.** Click the XMMT Setup button to configure MMTTY

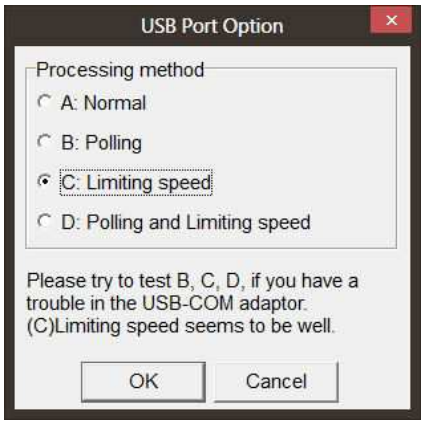



**7.** Select the TX tab and set the PTT & FSK port to the port you set for Radio 1 FSK in Router.

**8.** Choose the Misc Tab.

**9.** Select **Source LEFT**

**10.** Select clock 12000




**11.** Select COM-TxD (FSK) for the TX Port.

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

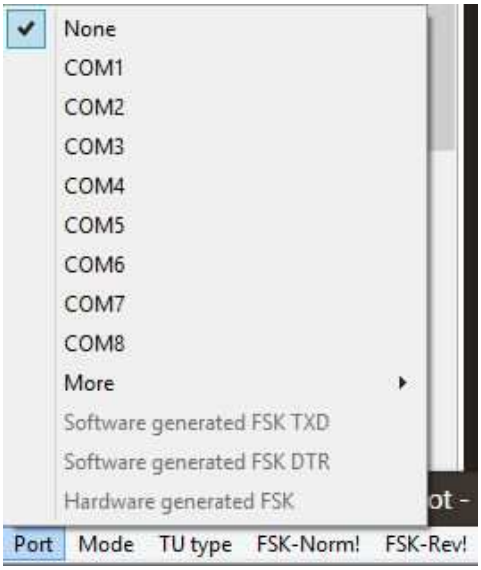
**13.** Select "Microphone (USB Audio CODEC)" for Reception in the Sound Card tab.

# RTTY/Digital setup (AFSK):

## Configuring the MMTTY Plug-in for WriteLog by SM6SRW for AFSK:

1. Install the MMTTY Plug-in for WriteLog by SM6SRW.

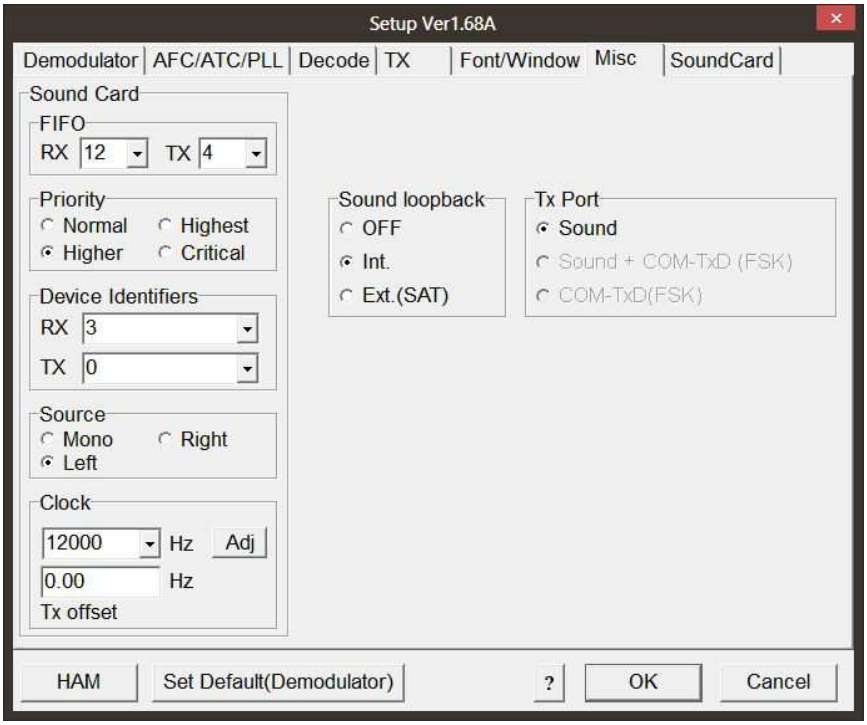
2. Activate the Left Radio entry window and click on **Window | RTTY Window** to open the first RTTY window.




3. Open the WriteLog RTTY Window and set the Port to **None.**

4. Select MMTTY as the TU Type and set the path to MMTTY.exe if prompted.

5. Click on TNC Setup and click the MMTTY Settings button to configure MMTTY.




6. Choose the Misc Tab.

7. Select **Source LEFT**

8. Select clock 12000

9. Set TX Port to Sound.

10. Choose the Sound Card tab.

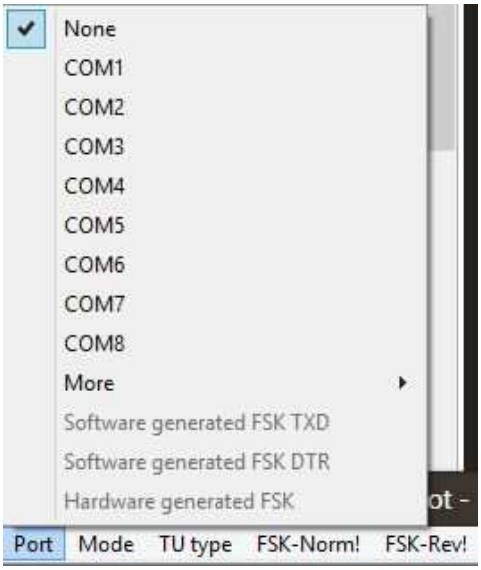
11. Select "Microphone (USB Audio CODEC) for Reception

12. Select "Speaker (USB Audio CODEC) for Transmission.

# Configuring the XMMT.ocx interface for AFSK with 2Tone

1. If you have not already installed XMMT.ocx, or previously used another logging package that installed XMMT.ocx, see: http://www.rttycontesting.com/writelog/xmmt/xmmt.pdf. 2Tone may be downloaded from: http://www.rttycontesting.com/downloads/downloads.html and set-up instructions are available at: http://www.rttycontesting.com/writelog/xmmt/xmmt-2Tonesetup.html (thanks Don, AA5AU).

2. Activate the Left Radio entry window and click on **Window | RTTY Window** to open the first RTTY window.

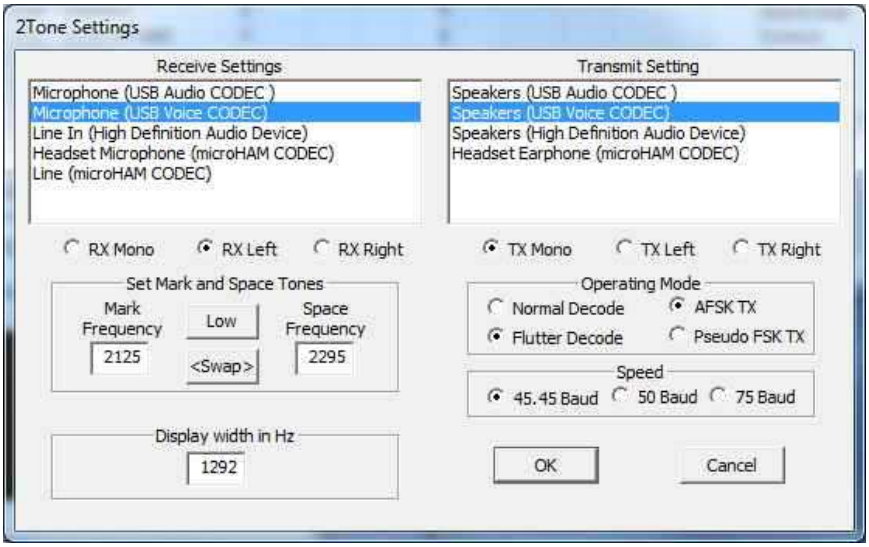



3. Open the WriteLog RTTY Window and set Ports to **None**.

4. Select XMMT.ocx as the TU Type

5. Click TNC Setup … and set the full path to 2Tone.exe

6. Click TNC Setup | XMMT. Setup … to configure 2Tone.




7. Select "Microphone (USB Audio CODEC)" in the "Receive Settings" box.

8. Select "Speakers (USB Audio CODEC)"

9. Choose "**RX LEFT"** (left channel) for the Radio 1 receiver audio.

10. Set Operating mode to AFSK TX

11. Set Speed to 45.45 Baud for normal operation.