

microKEYER and N1MM Logger Setup

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.

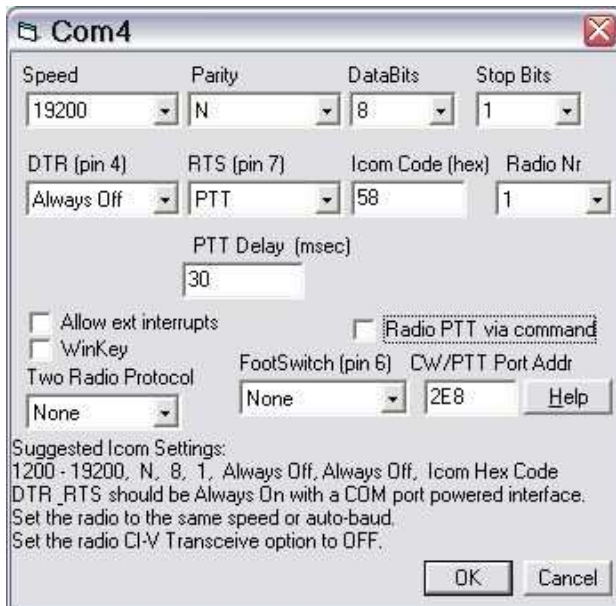
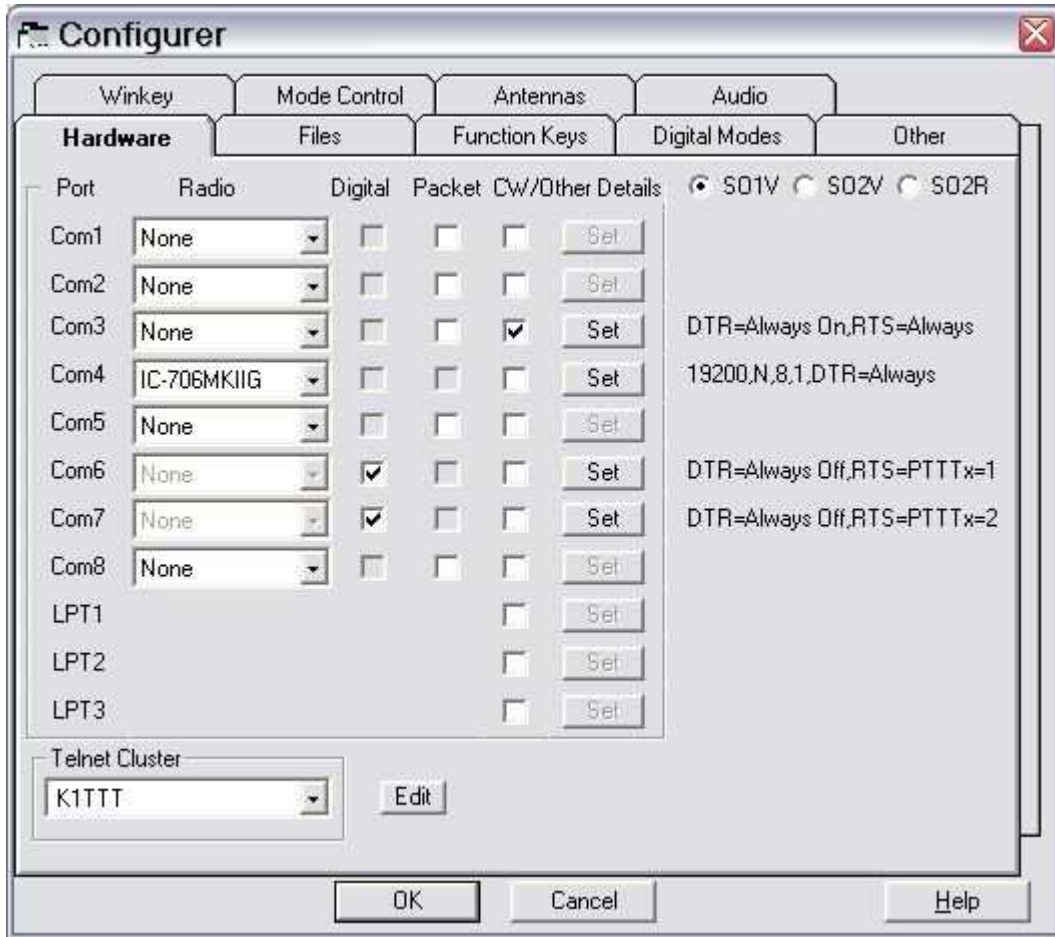
1. Assign a virtual COM port for radio control (CAT). Click the **Set** button, select the transceiver from the drop down box, set the Baud Rate and CI-V address if needed.
2. Assign PTT to RTS on the same ports as you used for CAT.
3. Assign a port for FSK and check the PTT box. If you will not be using FSK, you can skip this step.
4. Assign a port for WinKey. Select the appropriate PTT output and QSK or PTT operation on Router's PTT tab.



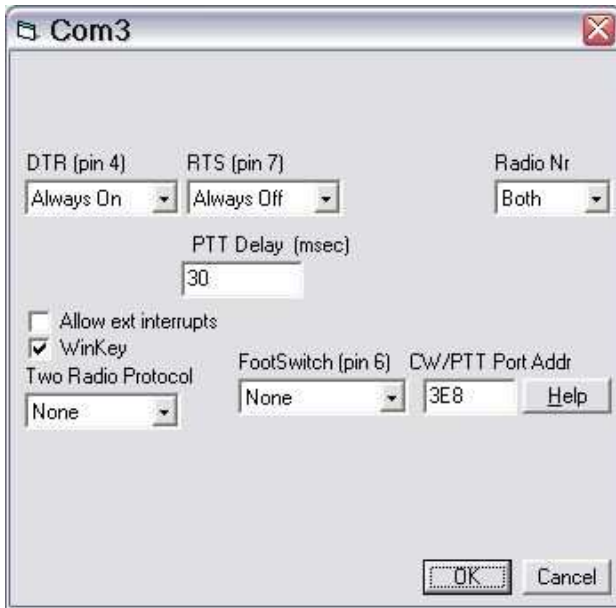
5. On the **Audio Switching** tab, set audio switching for CW, Voice and FSK/DIGITAL.
6. Set the appropriate PTT outputs for each mode and CW PTT or QSK on the the **PTT** tab.
7. Save settings to a preset by selecting menu **Preset | Save as**. Choose a position and name it N1MM.

N1MM setup:

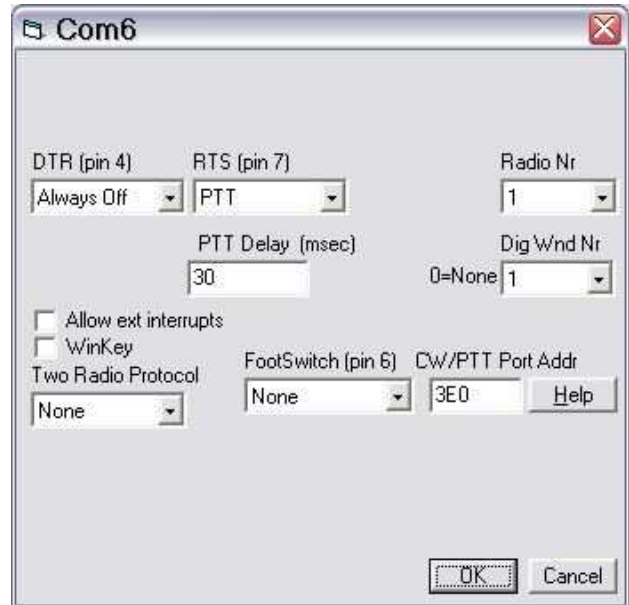
1. Click **Config | Configure Ports, Telnet Addresses, Other ...**



2. Assign the radio to the virtual COM port you created in Router's Ports tab
3. Assign Digital (FSK) to the virtual ports you created in Router
4. Enable WinKey on the port you created in Router.
5. For the radio port click **Set** and set proper communication parameters.
6. Set RTS (Pin 7) to PTT. **Do Not** check "Radio PTT via command."

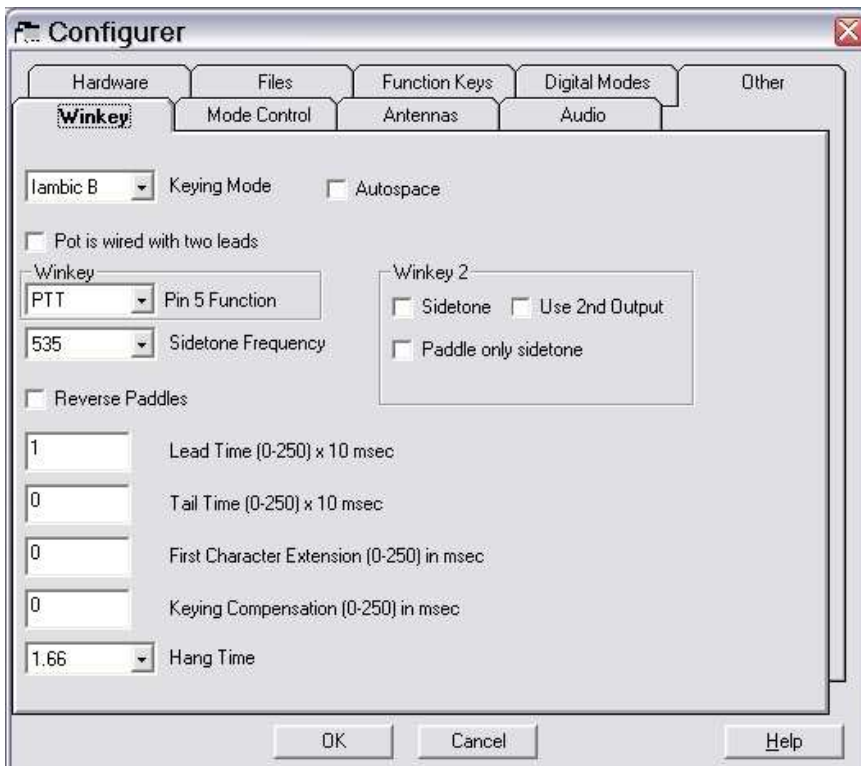


- For the CW Port click **Set**, check the WinKey box and select Both radios.



- Configure the Digital ports taking care to associate each port with the correct Radio (Radio Nr) and Digital Interface (Dig Wind Nr) depending on whether your transceiver supports SO2V operation.

- Set DTR to "always Off" and set RTS (pin 7) to PTT.

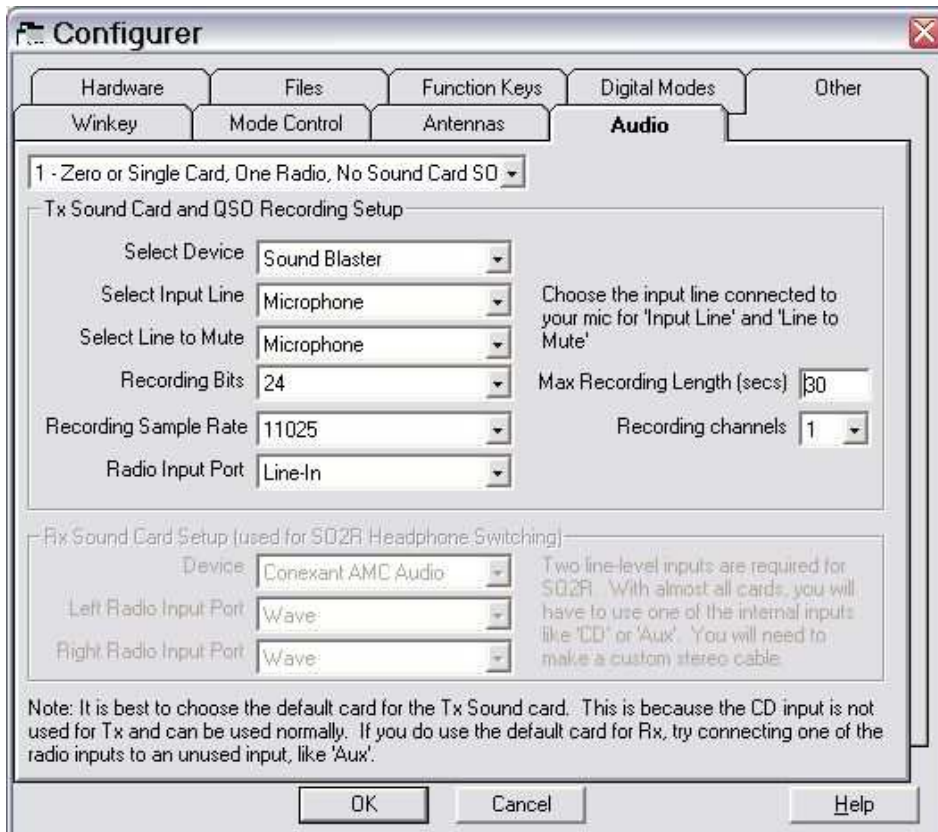


- Configure WinKey using the WinKey tab.

- Pin 5 Function should be PTT. PTT or QSK in CW is selected in Router.

- Lead Time should be at least 1

- Use 2nd Output should not be checked.

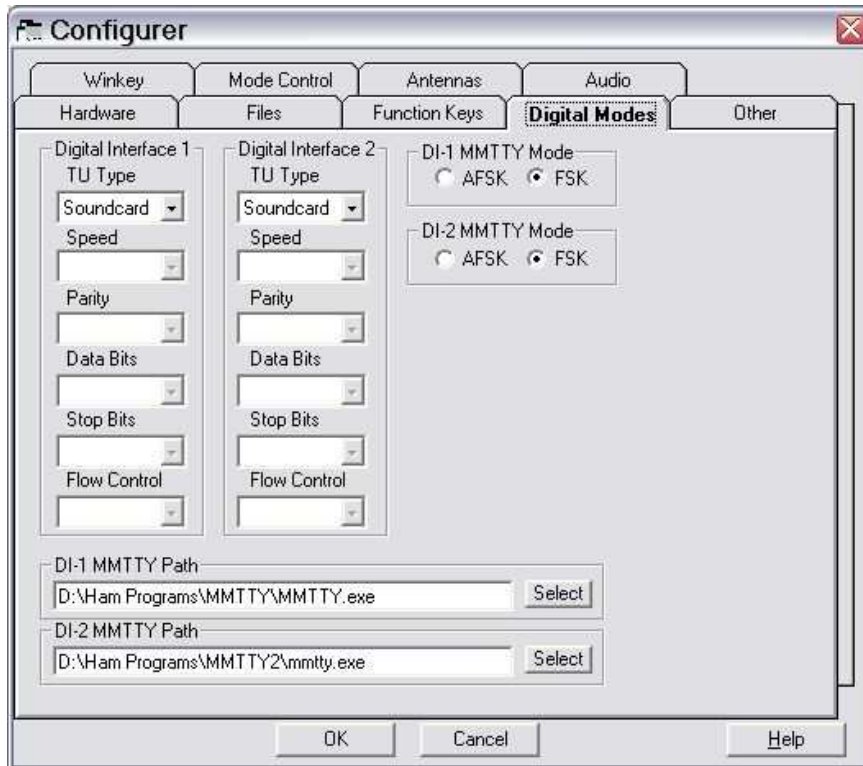


14. Configure Audio for "1 – Zero or Single Card, One Radio, No Sound Card SO2R.
15. Select the Sound Card to use for DVK
16. Select microphone as "Input Line" and the "Line to Mute."
17. Select Line In as the Radio Input Port (for recording QSOs)
18. Set Recording channels to 1

Note: DVK support in N1MM Logger requires that the Windows Mixer ID, Wave In ID and Wave Out ID for your soundcard all be the same. If they are not, see N4ZR's instructions for making USB Voice CODEC the default sound card and disabling Window's sounds. The file is available in the N1MM Logger group: [http://groups.yahoo.com/group/N1MMLogger/files/DVK Setup.pdf](http://groups.yahoo.com/group/N1MMLogger/files/DVK%20Setup.pdf)

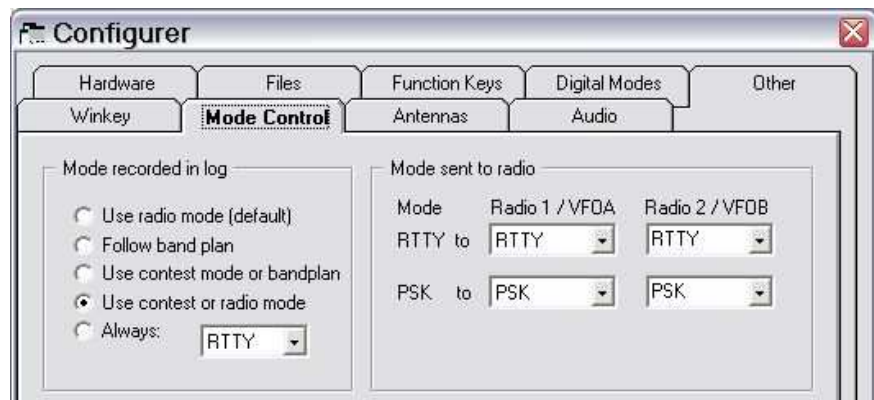
RTTY/Digital setup (FSK):

N1MM Logger supports the MMTTY Engine, MMVARI and/or an external TNC for RTTY contesting. This configuration is based on using MMTTY with FSK.

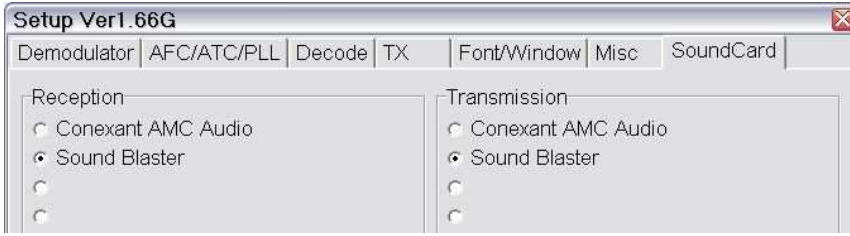


1. Install MMTTY in two *different* directories on your hard disk if you intend to operate SO2V.
2. Select the **Digital Modes** tab in the MMTTY Configurer.
3. Set TU Type to Soundcard
4. Select FSK as the MMTTY mode for DI-1 and DI-2.
5. Enter the path to each MMTTY installation.

6. Open the **Mode Control** tab
7. Set the appropriate RTTY and PSK modes for each VFO.
8. Set the method to determine the mode to log.
9. Click "OK" to save the settings and close the Configurer.

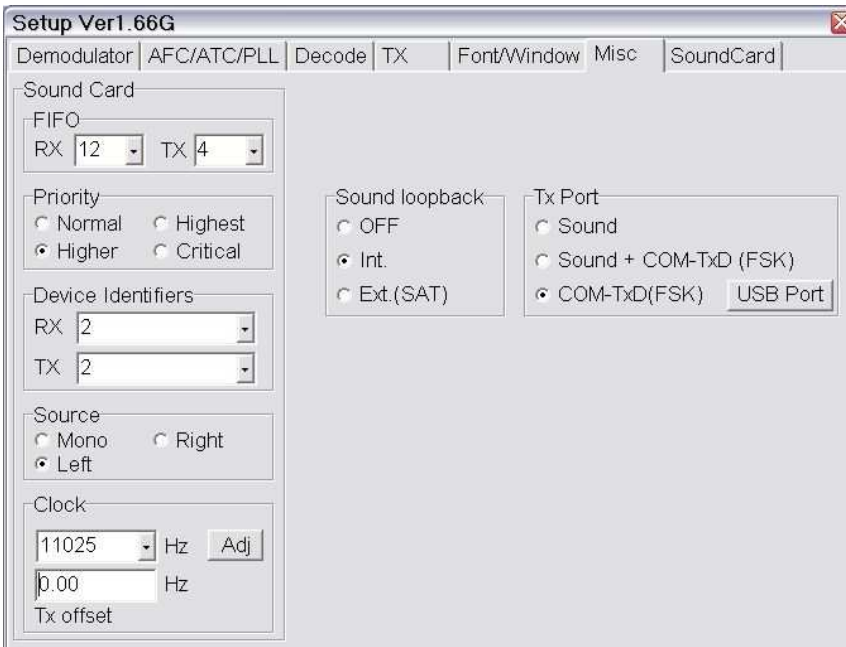
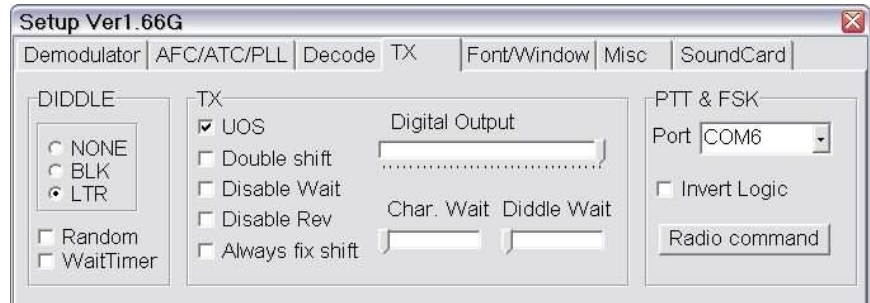


10. Activate the left Entry Window (VFO A) and open the Digital Interface.
11. If this is the first time you have run the Digital Interface, select **Interface | MMTTY** to activate the MMTTY interface.



12. In the Digital Interface, Click **Setup | Setup MMTTY**.
13. Select the "SoundCard" tab.
14. Set Reception and Transmission to your sound card.

15. Select the TX tab
16. Set PTT & FSK to the port used for Router's FSK port.
17. Select the Misc Tab



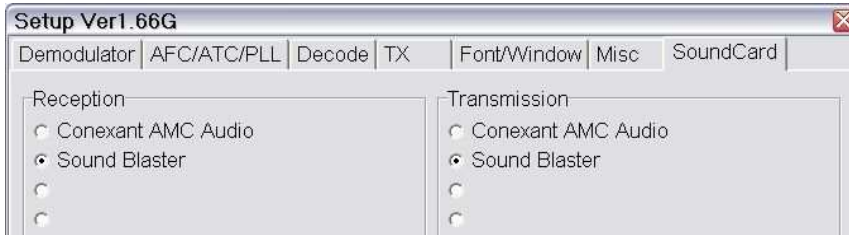
18. Select **Source = Left**
19. Select clock **11025**
20. Set Tx Port to COM-TxD(FSK)



21. Click **USB port** button, choose **C: Limiting speed** and click OK
22. Click "OK" on the Misc tab to close the MMTTY Set-up for VFO A

23. Activate the right Entry Window (VFO B) and open the Digital Interface.

24. Select **Interface | MMTTY** to activate the MMTTY interface.



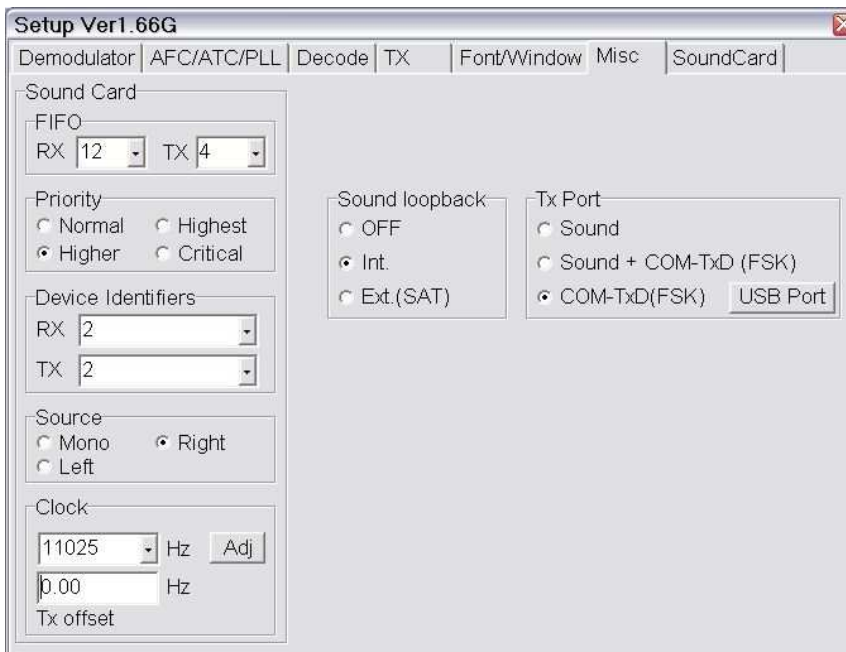
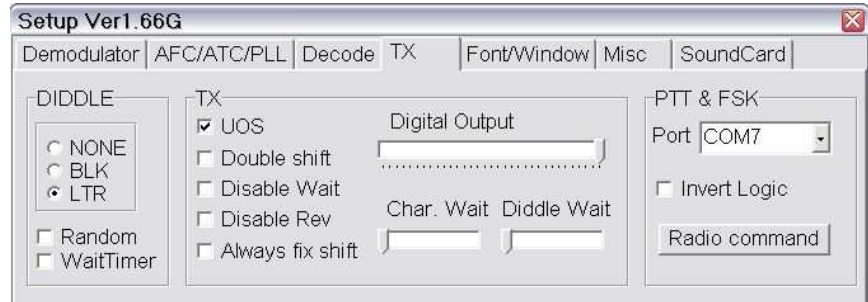
25. In the Digital Interface, Click **Setup | Setup MMTTY**.

26. Select the "SoundCard" tab.

27. Set Reception and Transmission to your soundcard

28. Select the TX tab

29. Set PTT & FSK to the port used for Router's 2nd FSK port.



30. Select the Misc Tab

31. Select **Source = Right**

32. Select clock **11025**

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

34. Click **USB port** button, choose **C: Limiting speed** and click OK.

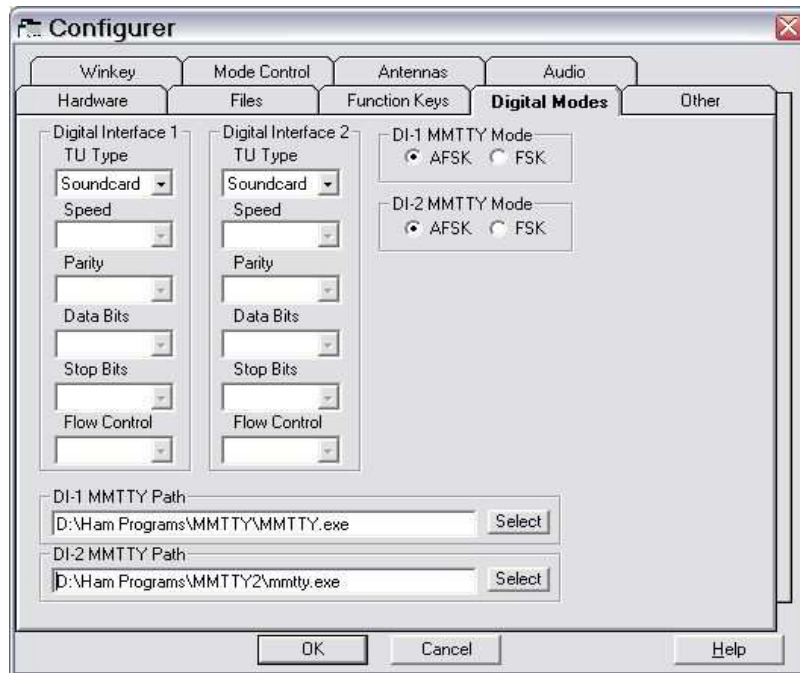


35. Click "OK" on the Misc tab to close the MMTTY Set-up for VFO B

RTTY/Digital setup (AFSK):

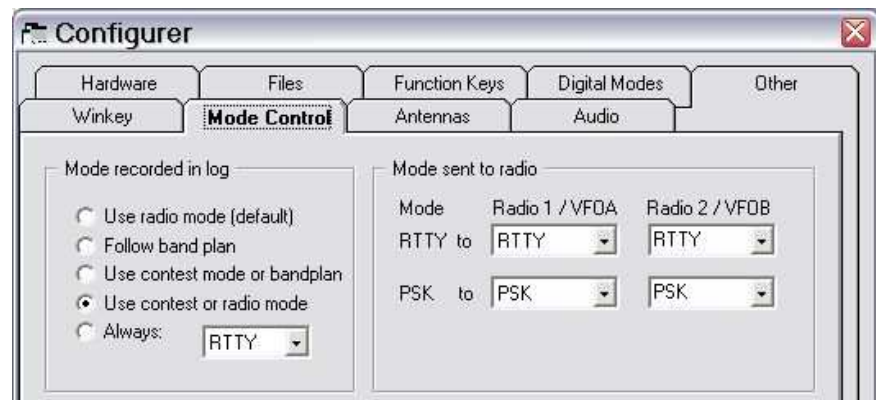
N1MM Logger supports the MMTTY Engine, MMVARI and/or an external TNC for RTTY contesting. This configuration is based on using MMTTY with AFSK.

AFSK does not require a separate digital port for each VFO. If you will be using only AFSK and PSK, it is not necessary to define "Digital" ports on the N1MM "Hardware" tab or FSK ports in Router.

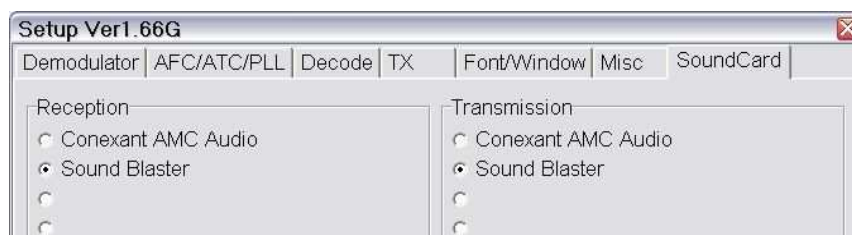


1. Install MMTTY in two *different* directories on your hard disk if you intend to operate SO2V.
2. Select the **Digital Modes** tab in the MMTTY Configurer.
3. Set the TU Type to Soundcard
4. select AFSK as the MMTTY mode for both DI-1 and DI-2.
5. Enter the path to each copy of MMTTY.

6. Open the **Mode Control** tab
7. Set the appropriate RTTY and PSK modes for each radio.
8. Set the method to determine the mode recorded in the log.
9. Save and Close the Configurer.

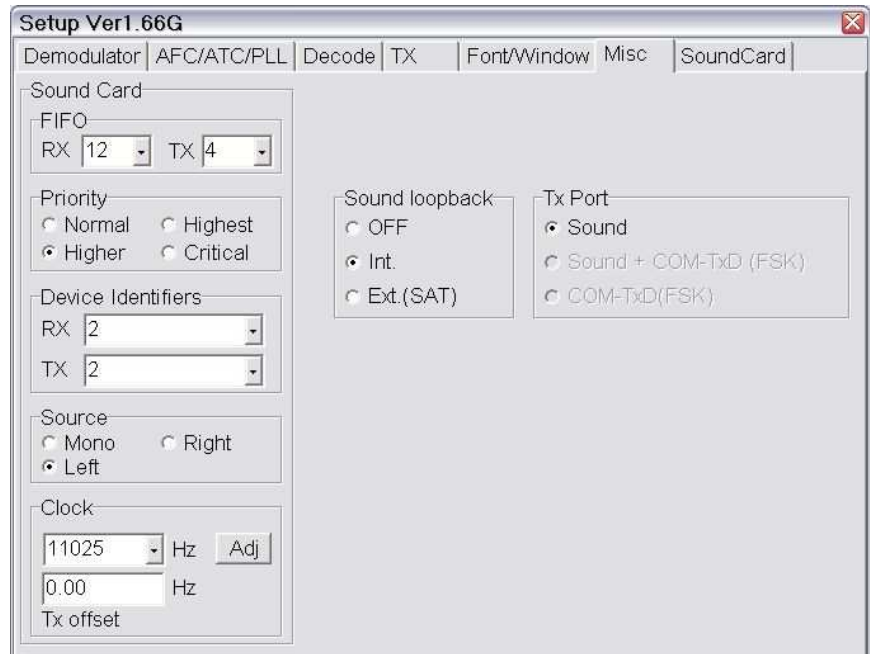


10. Activate the left Entry Window (VFO A) and open the Digital Interface.
11. If this is the first time you have run the Digital Interface, select **Interface | MMTTY** to activate the MMTTY interface.



12. In the Digital Interface, Click **Setup | Setup MMTTY**.
13. Select the "SoundCard" tab.
14. Set Reception and Transmission to your soundcard.

15. Select the Misc Tab
16. Select **Source = Left**
17. Select clock **11025**
18. Set Tx Port to **Sound**.
19. Click "OK" to close MMTTY Set-up for VFO A



20. Activate the right Entry Window (VFO B) and open the Digital Interface.
21. Select **Interface | MMTTY** to activate the MMTTY interface.

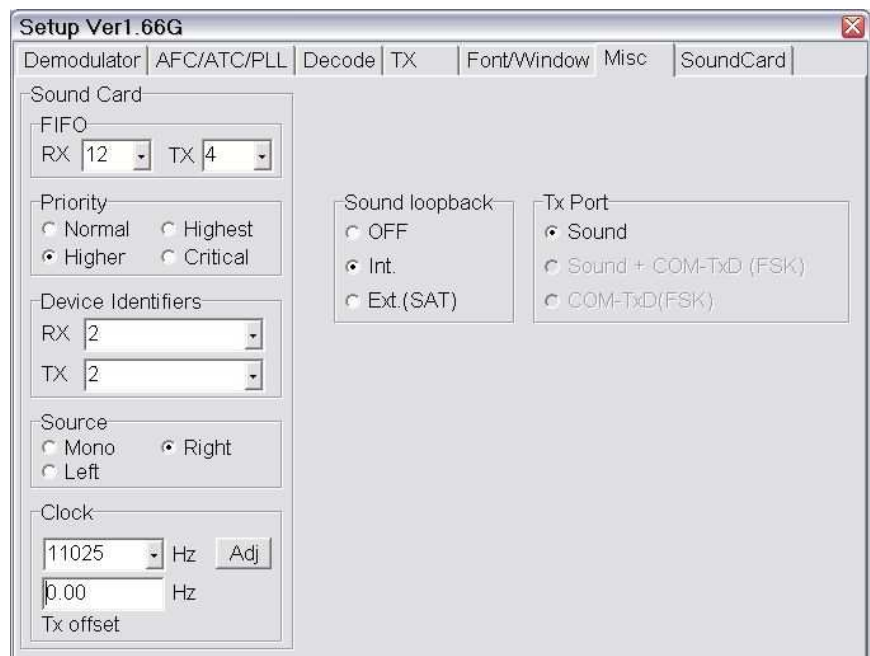


22. In the Digital Interface, Click **Setup | Setup MMTTY**.

23. Select the "SoundCard" tab.

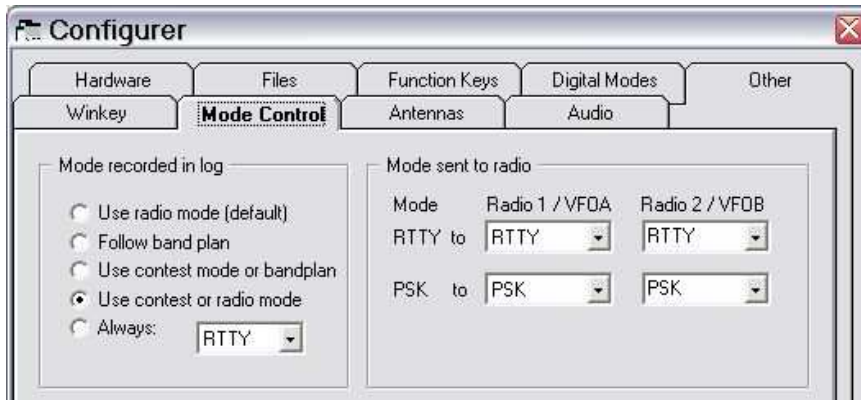
24. Set Reception and Transmission to your soundcard

25. Select the Misc Tab
26. Select **Source = Right**
27. Select clock **11025**
28. Set Tx Port to **Sound**
29. Click "OK" to close MMTTY Setup for VFO B.



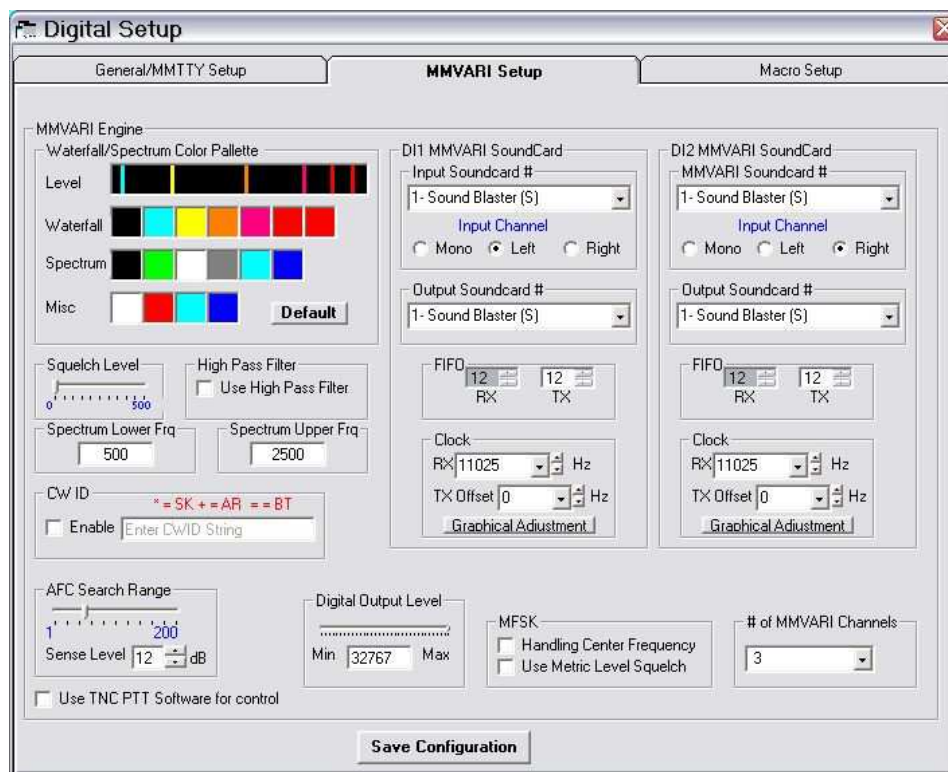
PSK/Digital setup:

N1MM Logger supports the MMTTY Engine, MMVARI and/or an external TNC for RTTY contesting. This configuration is for PSK with MMVARI. This configuration can be used for AFSK by selecting **Interface | MMVARI** in each Digital Interface.



1. Open the **Mode Control** tab
2. Set the appropriate RTTY and PSK modes for each VFO.
3. Set the method to determine the mode recorded in the log.
4. Save and Close the N1MM Configurer.

5. Activate the left Entry Window (VFO A) and enter PSK.



6. To use MMVARI for AFSK RTTY, click **Interface | MMVARI**
7. Click **Setup | Settings**.
8. Select **MMVARI Setup**.
9. Set Input Soundcard # to your soundcard.
10. Set Output Soundcard # to your soundcard.
11. Set **Input Channel** to **Left** for DI1.
12. Set **Input Channel** to **Right** for DI2.
13. Select clock **11025**
14. Save the configuration.

15. If you are using SO2V with MMVARI for AFSK RTTY, activate the right Entry Window (VFO B), select **Window | Digital Interface** then click **Interface | MMVARI**.