MK2R/MK2R+ and Logger32 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 application.

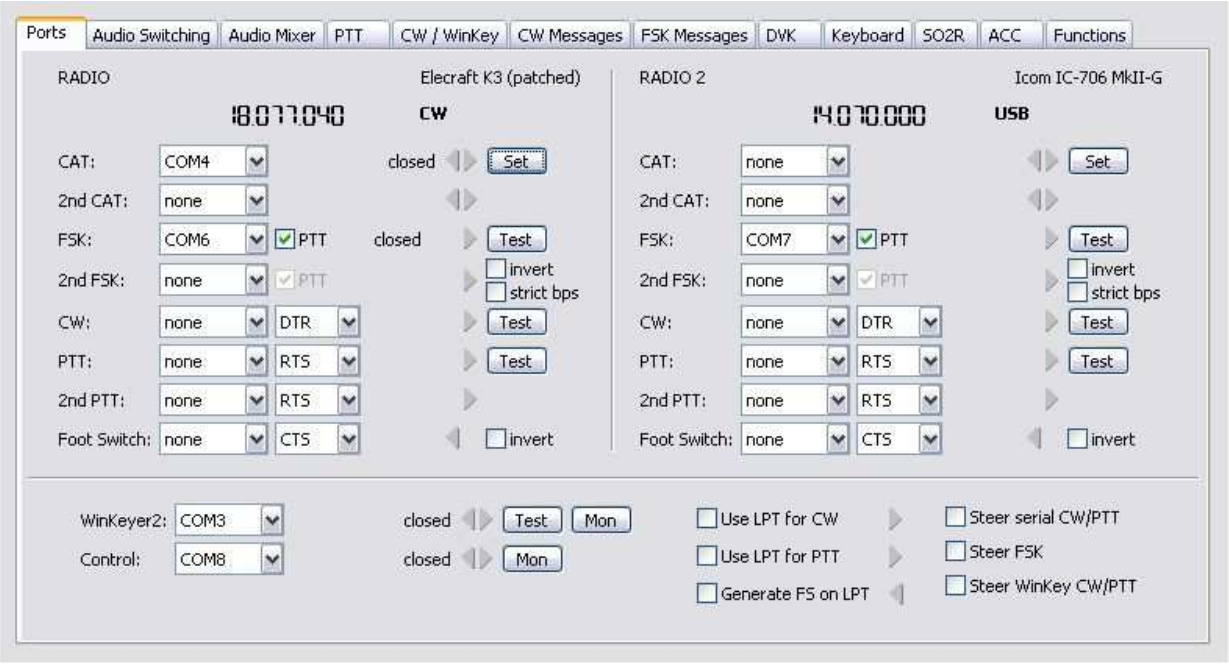
1. Assign both radio control virtual COM ports. Click the **Set** button for each radio and select the radio on that port from the drop down box. Uncheck the **Disable router queries** box.

2. Set PTT for each radio to use RTS on the same virtual port as CAT.

3. Assign FSK ports for each radio and check the PTT box for both ports.

4. Assign a port for WinKey2. Select the appropriate PTT output or QSK operation for each radio on Router's PTT tab.

5. Select the audio switching for EACH radio on the **Audio Switching** tab.
   ACmA is recommended for **Voice** Modes.

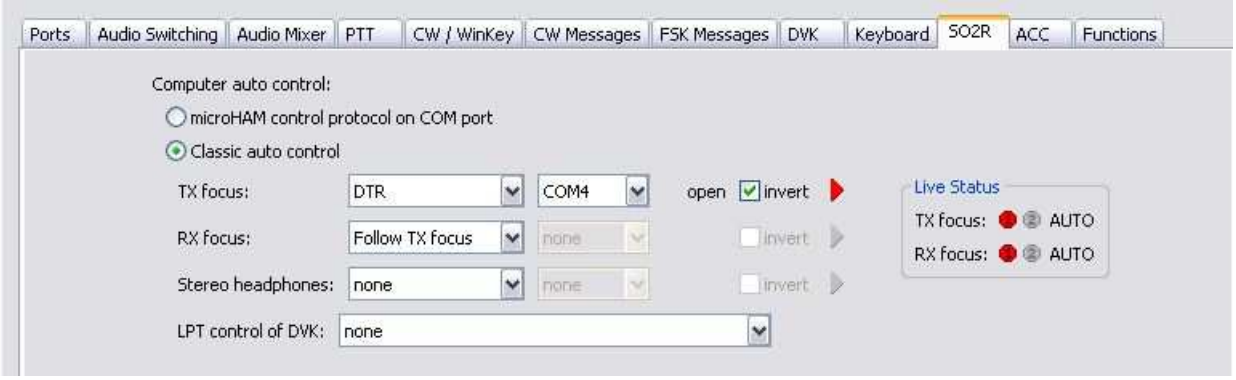


6. Assign a port for Control if you plan to control the microHAM DVK from Logger32.

7. If you assigned both FSK ports to Radio 1, check "Steer FSK"

8. Select "Classic auto control" on the **SO2R** tab and assign the following controls:
   - **TX focus:** **DTR** - select the port for Radio 1 and check "Invert"
   - **RX Focus:** **Follow TX Focus**
   - **Stereo Headphones:** **None**

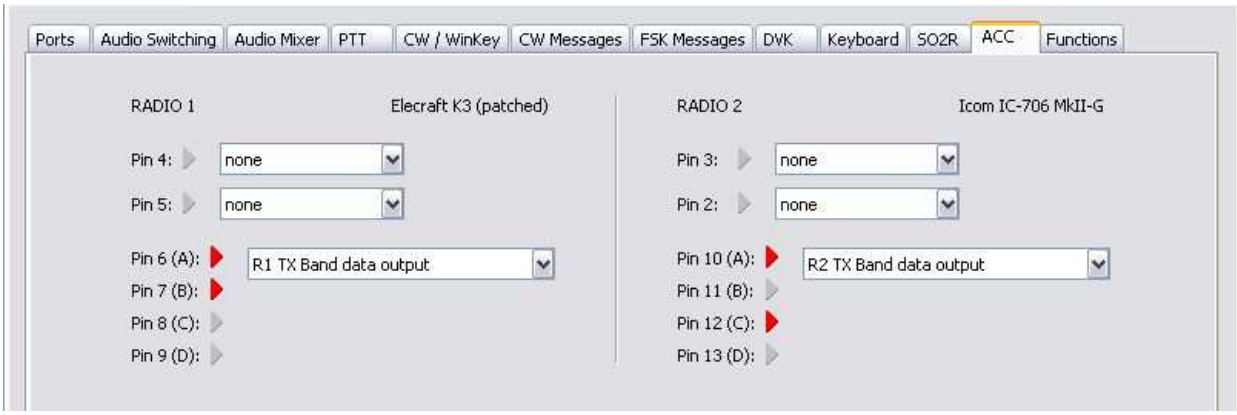
     (Logger32 has no "Dual Receive" function)



9. These settings permit Logger32 to select which radio will be used and connect the microphone, headphones, PTT, CW and RTTY (FSK) to that radio.

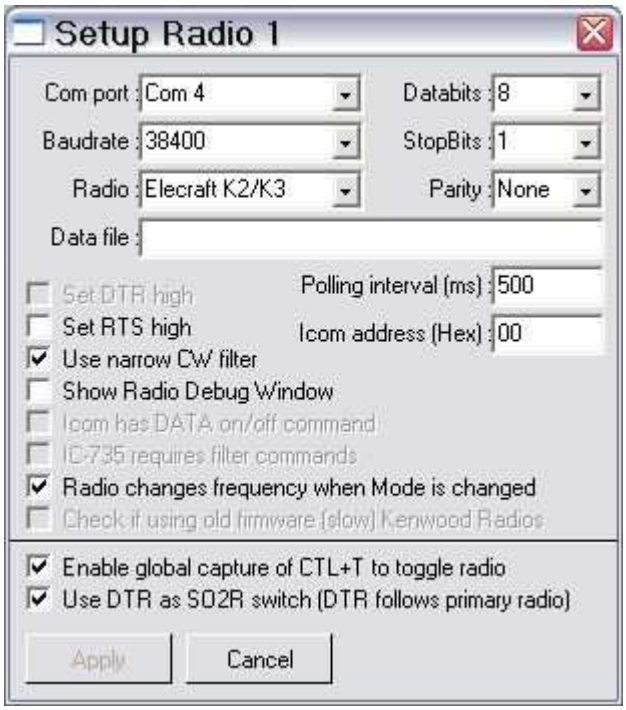
10. Router can provide a substitute Antenna Relay (Band Data) signal derived from the transceiver operating frequencies.

    Set pins 6-9 and 10-13 on the ACC tab to R1 TX Band Data and R2 TX Band data respectively. The specific BCD code for each band can be set at Router | Options | Band Map.

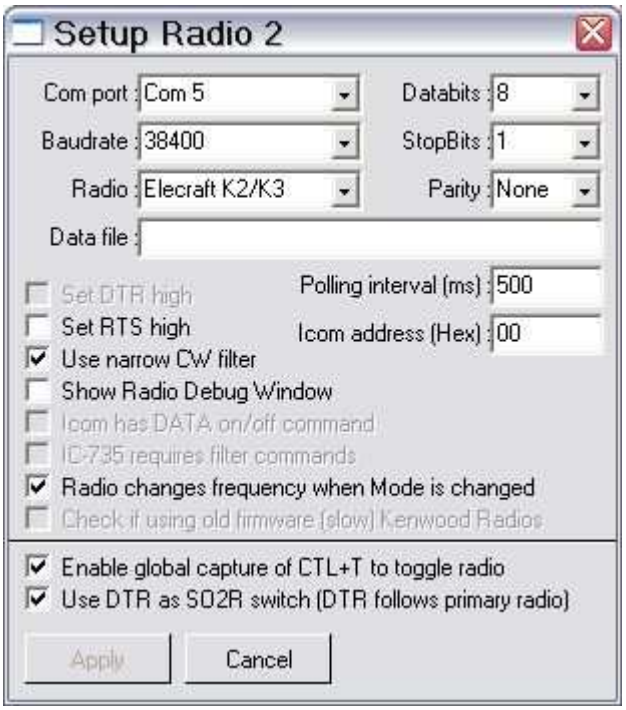


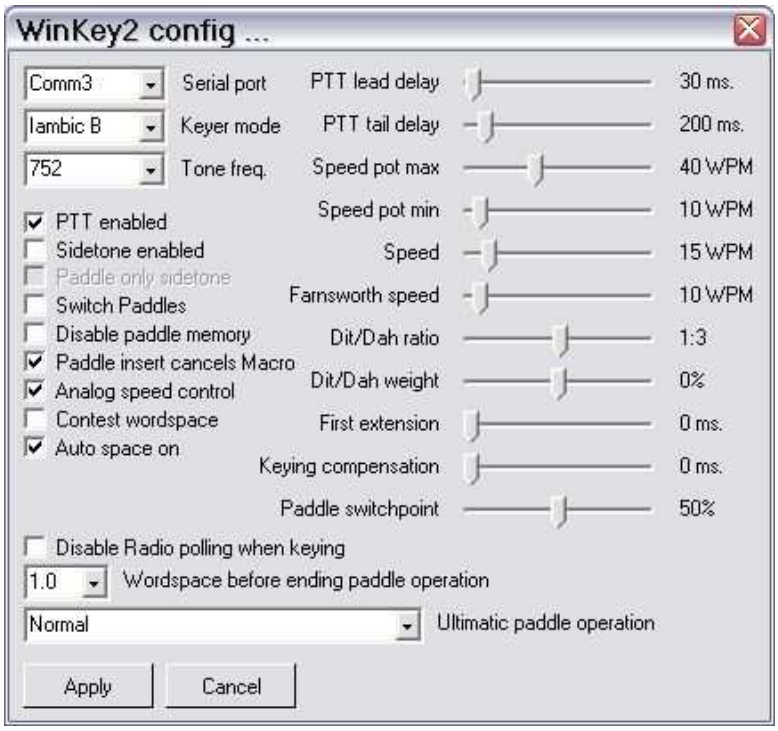
11. Save settings to a preset by selecting menu **Preset | Save as.** Choose a position and name it Logger32.

Logger32 setup:



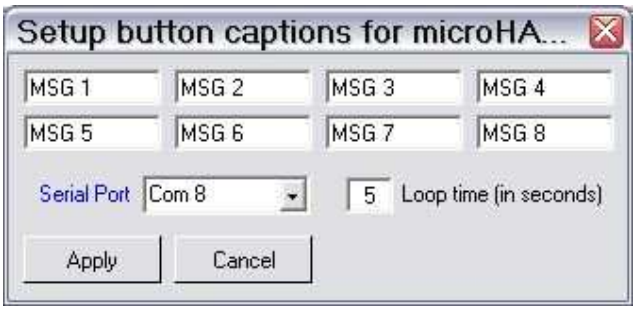
1. Click **Setup | Radio | Radio 1 configuration ...**
2. Select the virtual COM port you used for Radio 1 CAT in Router's Ports tab
3. Select the Baud Rate, Parity, Databits, parity, Word Length, and Stop Bits settings required by your radio.
4. Check "Use DTR as SO2R switch (DTR follows primary radio)" and clear "Set RTS high."
5. Set the other values as appropriate for your transceiver.
6. Click "Apply"
7. Click **Setup | Radio | Radio 2 configuration ...**
8. Select the virtual COM port you used for Radio 2 CAT in Router's Ports tab
9. Select the Baud Rate, Parity, Databits, parity, Word Length, and Stop Bits settings required by your radio.
10. Set the other values as appropriate for your transceiver.
11. Click "Apply"





12. Click the CW icon to open the CW machine
13. Select **Config | WinKey2**
14. Select **Config | Keyer Setup**
15. Select the Serial Port you set for WinKey in Router's Ports tab
16. **NOTE:** Only the Serial Port setting, "Paddle insert cancels Macro" and "Analog Speed Control" are valid here. All other WinKey2 parameters are set in Router.
17. Click Apply.
18. Click the Recorder Icon to open the DVK

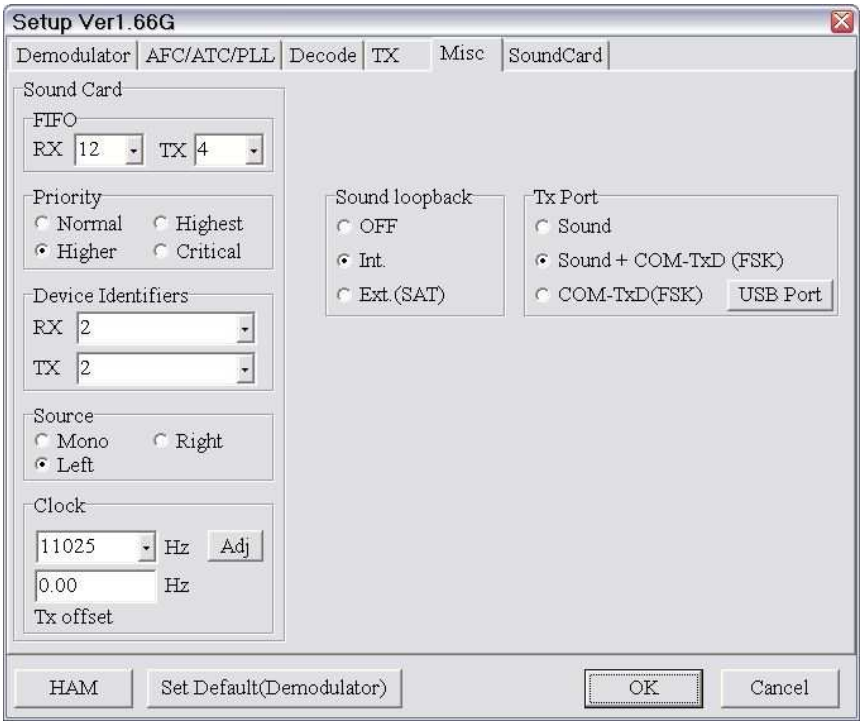
19. Select **Config | Use microHAM DVK**
20. Select **Config | Setup microHAM DVK**
21. Select the Serial Port you defined for Control on Router's Ports tab.
22. Define Captions for the message buttons
23. Click Apply



24. Enter **Ctrl-T** if Radio 1 is not selected.
25. Click on the Speaker icon to open the Soundcard Data Window
26. Click **Settings | Radio PTT options**
27. Select the Serial Ports you chose for FSK on Router's Ports tab
28. Select PTT by Serial Port
29. Select RTS Keying Only
30. **NOTE:** DO NOT Check "MMTTY FSK using EXTFSK"!
31. Click OK

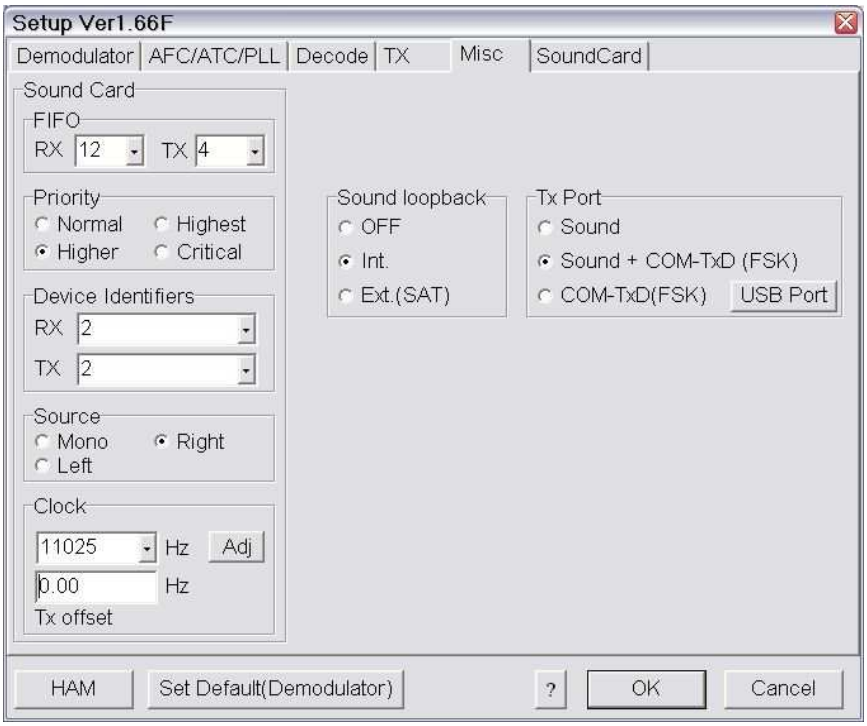
Configuration using MMTTY for FSK

32. Click **Mode | MMTTY Engine | RTTY 170Hz shift**
33. Click on the "wrench" icon to Open MMTTY Setup



34. Choose the **Misc Tab.**
35. Select Source **Left**
36. Set Clock **11025**
37. Select the proper sound card **Device ID** - Use the "Sound Card" tab or click the **Get ID** button on Router's **Audio Mixer** tab.
38. Select COM-TxD (FSK) or Sound + COM-TxD (FSK) for the TX Port.

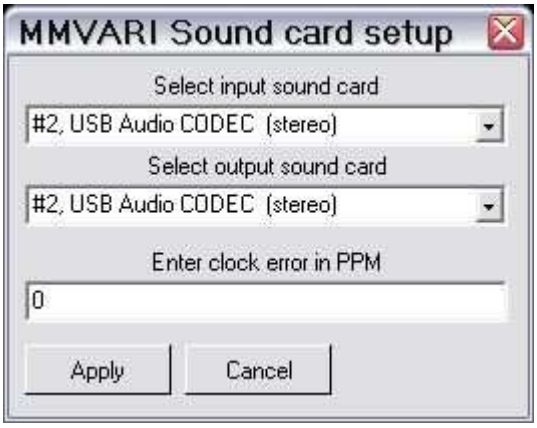
39. Click **USB port** button and choose **C: Limiting speed**
40. Select the SO2R Menu item to open the second MMTTY widow.



41. Click on the "wrench" icon on the SO2R window to open the MMTTY Set-up.
42. Choose the **Misc Tab.**
43. Select Source **Right**
44. Set Clock **11025**
45. Select the proper sound card **Device ID** - Use the "Sound Card" tab or click the **Get ID** button on Router's **Audio Mixer** tab.
46. Select COM-TxD (FSK) or Sound + COM-TxD (FSK) for the TX Port.
47. Click **USB port** button and choose **C: Limiting speed**

Configuration using for MMVARI for AFSK/PSK31

48. Click **Mode | MMVARI Engine | BPSK31**
49. Click on the **Settings | MMVARI Settings | Sound card setup**



50. Set input sound card to USB Audio CODEC.
51. Set output sound card to USB Audio CODEC.
52. Set clock error to 0
53. Click **Settings | MMVARI Settings | SO2R Audio Channel** and check **Radio 1 uses left audio channel**