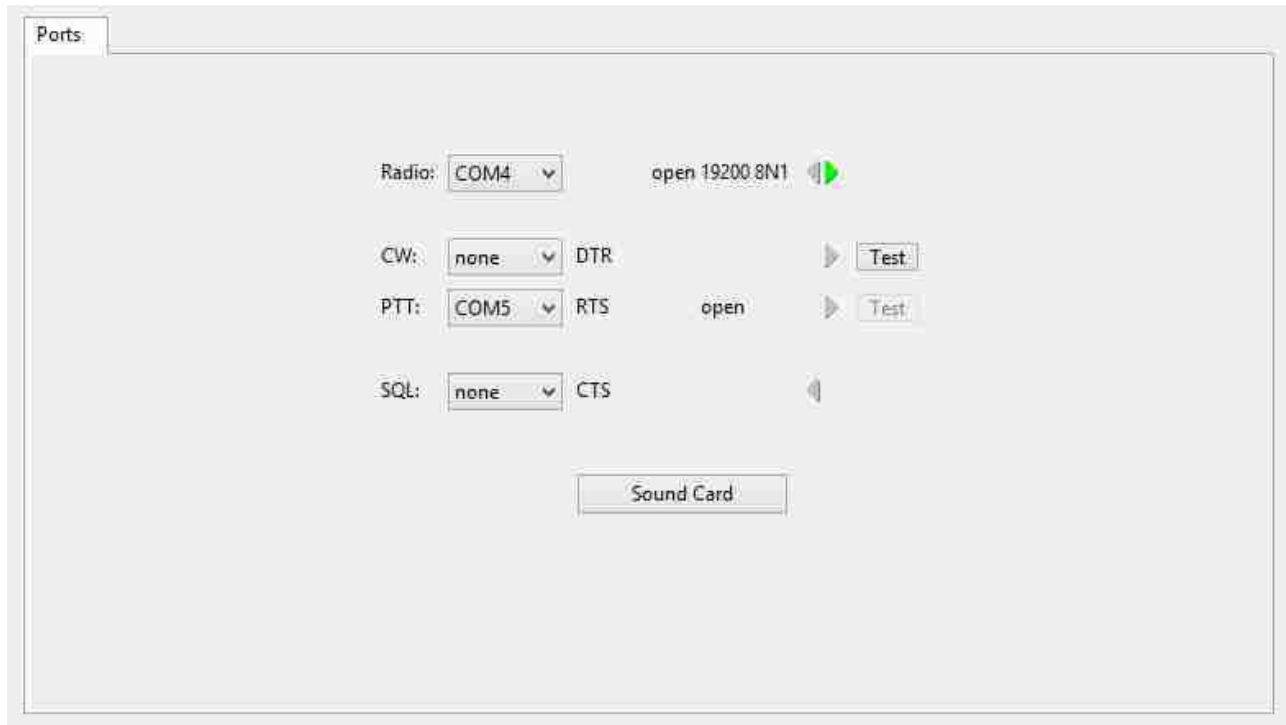# USB Interface III with fldigi
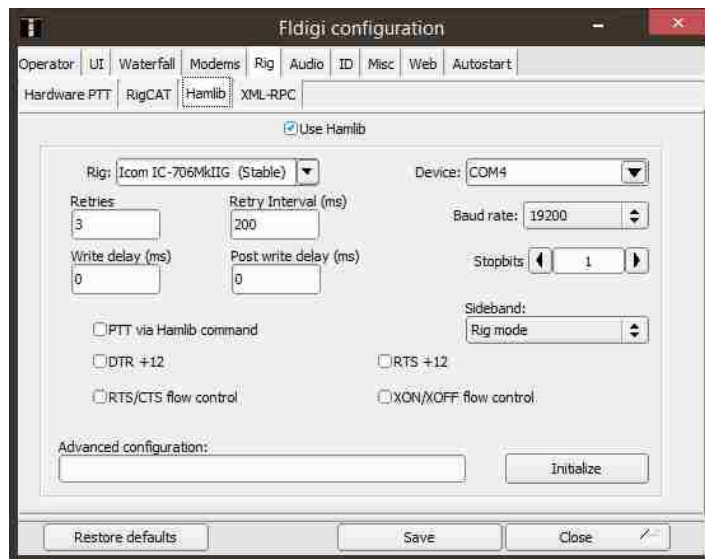
Router setup:

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 a virtual port for radio control.

2. Use a different port for PTT than you used for radio control.

3. FLdigi does not support computer generated CW.   Leave the CW Port set to None – audio derived q-CW can be selected later.

4. Save the settings to a preset by selecting **Preset | Save as.** Choose a position and name it FLdigi.

FLDIGI setup:

1. Click **Configure | Rig Control ...**

2. Select the Hamlib tab

3. Select your rig

4. Set Device to the port you selected for CAT in Router and set the data rate as needed for your rig.

5. **Uncheck** check "PTT via Hamlib command"

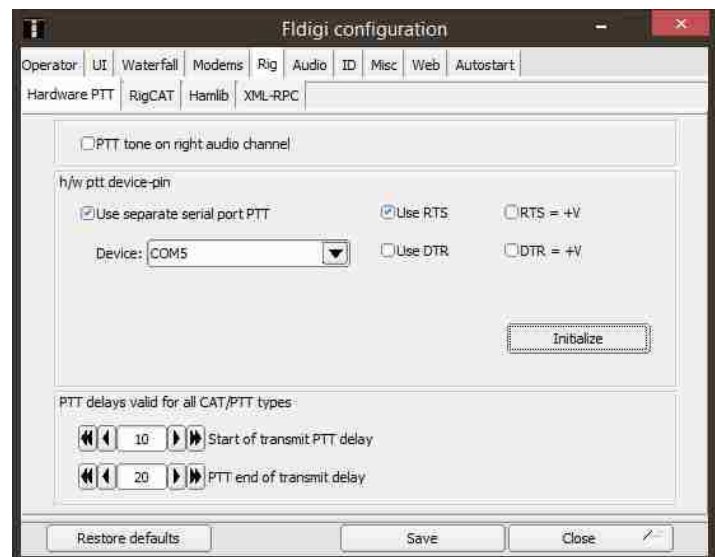6. Click Initialize

7. Select Hardware PTT

8. Check "Use Separate serial port PTT"

9. Set Device to the port you selected for PTT in Router

10. Check "Use RTS"

11. Set PTT delays appropriate for your transceiver and amplifier if used. 10 ms at the start and 20 ms at the end are suitable for most transceivers without an amplifier.
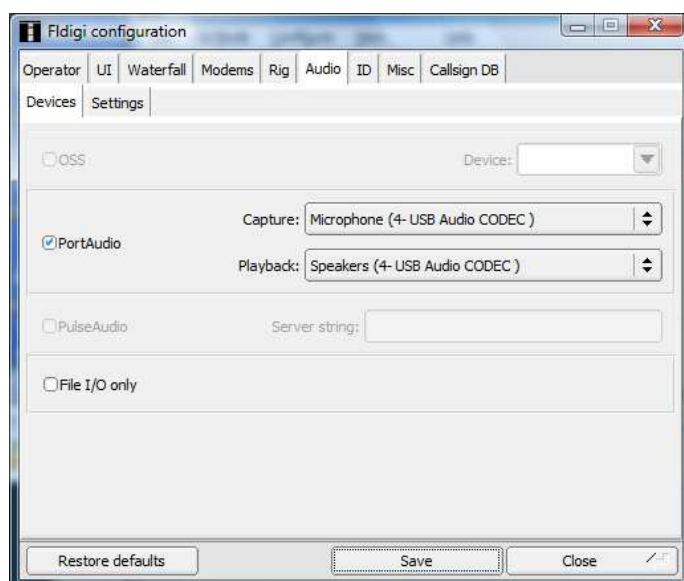
12. Click Initialize and Close

13. Click **Configure | Sound Card ...**

14. Select "PortAudio"

15. Set Capture (Audio Input) to USB Audio CODEC

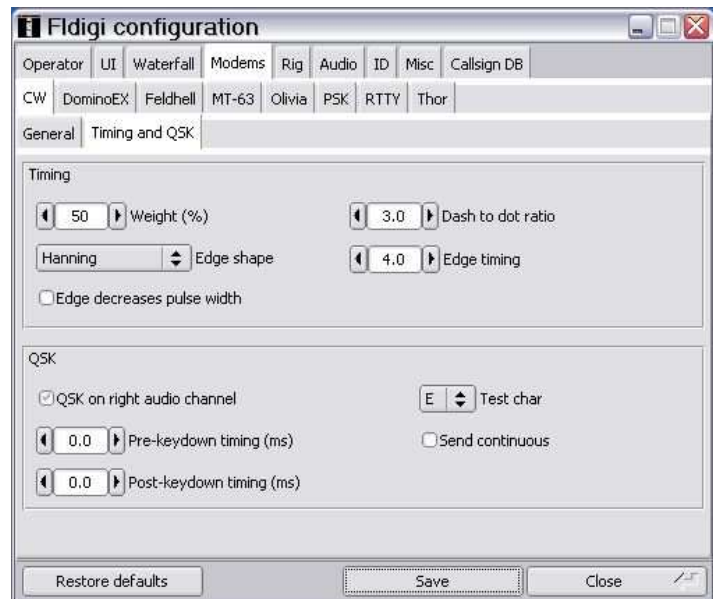16. Set Playback (Audio Output) to USB Audio CODEC.
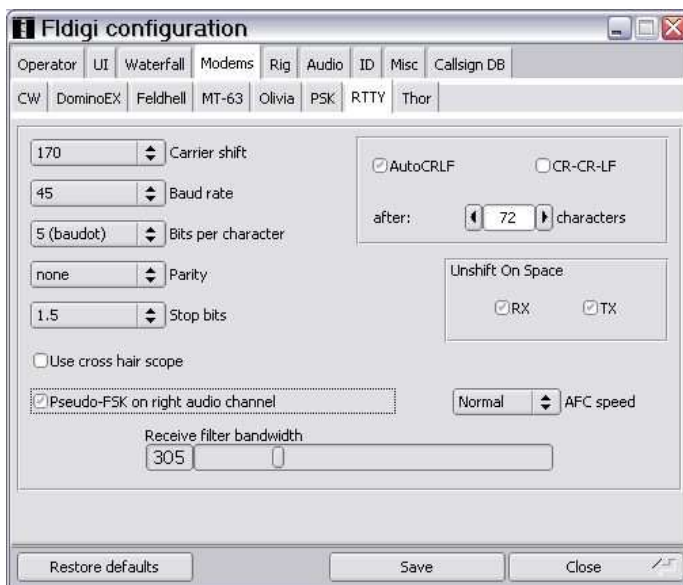
17. Click Save Config and Close.

CW Operation

In normal CW operation in FLDIGI generates an audio tone on the soundcard output which is used to modulate the transceiver in SSB mode. FLDIGI provides an alternative to modulated CW called "QSK CW" which places the tone on the soundcard right channel. USB Interface III detects that tone and converts the pulses to normal closures on the CW output which allows the transceiver to be operated in the normal CW mode with narrow filtering.

1. Click **Configure | Modems | CW | Timing & QSK …**

2. Check "QSK on right audio channel"

3. Set Pre-keydown timing to 0.0

4. Set Post-keydown timing to 0.0

5. Click Save

FSK RTTY

Normal RTTY operation in FLDIGI is AFSK. However, USB Interface III can detect the "Pseudo-FSK on right audio channel" option to provide an FSK shift signal.

1. Click **Configure | Modems | RTTY …**

2. Check the "Pseudo-FSK on right audio channel" option

3. Click save.

Note: for q-CW and p-FSK to operate correctly, the right channel level must be set to 100% in Windows Control Panel | Playback | Speaker (USB Audio CODEC) | Levels.