

USB Interface III and Fldigi Setup

Router setup:

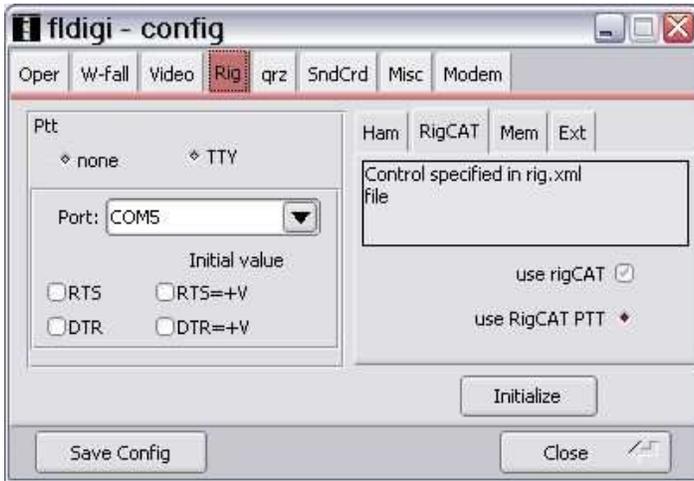
Note: The absolute port numbers do not matter. The key is consistency - the same port number must be used for a specific function every time it is used.

1. Assign a virtual port for radio control.
2. Use the same port for PTT as you used for FLDigi 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 | Defaults | Rig Control ...**
2. In the PTT box, check "None"
3. Select the RigCAT tab on the right, check "use rig CAT" and select "use RigCAT PTT" on the virtual port you selected for CW and PTT in Router.
4. Select Save Config
5. Select the SndCrd tab.

6. Select "PortAudio"
7. Set both Capture (Audio Input) and Playback (Audio Output) to USB Audio CODEC.
8. Click Save Config and Close.
9. Download the XML file (control file) for your transceiver from: w1hkj.com/xmlarchives.html
10. Edit the port section of the XML file to specify the necessary data rate, virtual port and RTS or DTR PTT. Your parameters may be different from this example:



```

<PORT>
  <BAUD>38400</BAUD>
  <DEVICE>COM4</DEVICE>
  <ECHO>>false</ECHO>           ; true for Icom
  <RETRIES>4</RETRIES>
  <TIMEOUT>200</TIMEOUT>
  <WAIT>0</WAIT>
  <DTRINIT>-12</DTRINIT>
  <DTRPTT>>false</DTRPTT>      ; true if PTT is DTR
  <RTSINIT>-12</RTSINIT>
  <RTSPTT>true</RTSPTT>      ; false if PTT is DTR
  <RTSCTS>>false</RTSCTS>
</PORT>

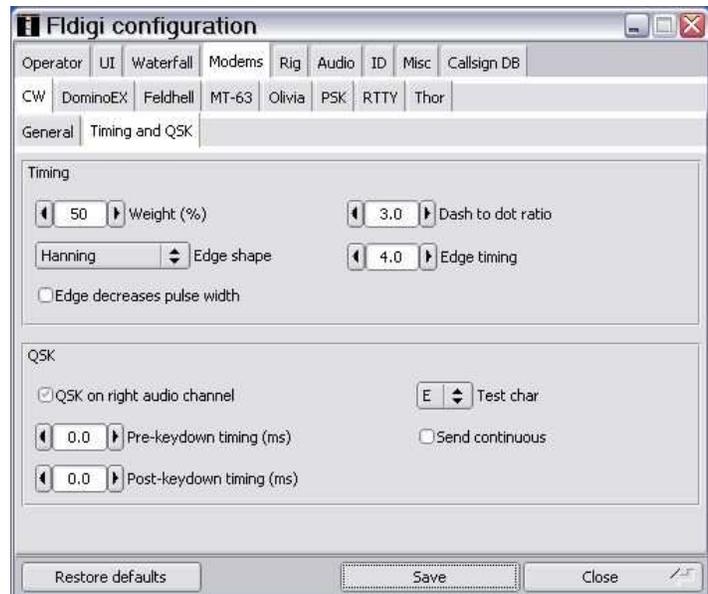
```

11. Copy the modified XML file to C:\Documents and Settings\\fldigi.files\rig.xml

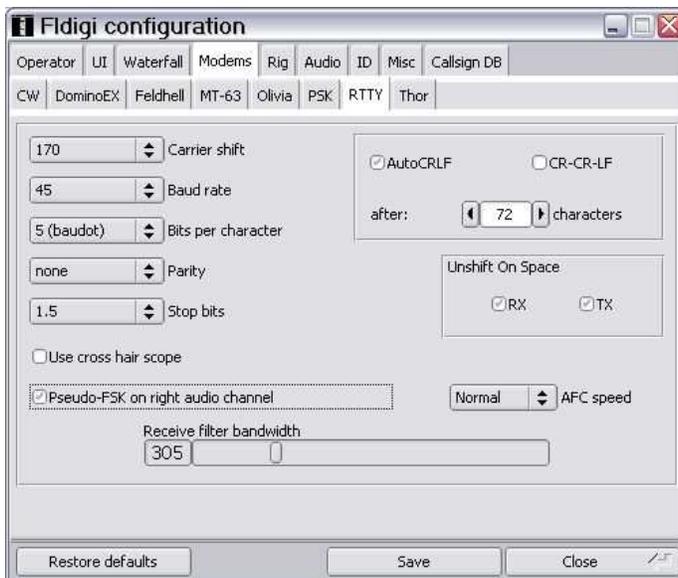
CW Operation

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 a keying signal for FSK operation.

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, the right channel Master and Wave levels must be set to 100% in Router's Audio Mixer tab (or Vista Audio Set-up for FLDIGI and USB Audio CODEC).