FLDIGI and Icom IC-7100 Setup

Download USB Drivers

- The latest drivers can always be downloaded from <u>here</u>. Look for IC-7100 > USB Driver Utility
- Read the <u>USB Driver Installation Guide</u>
- I really do recommend reading the installation instructions.
- <u>USB Driver Software</u>, v1.20, 2013/08/01
- Run the USB Driver installation package **before** connecting the USB cable for the first time.
- Unzip USB Driver ZIP first, or the installation will fail.
- Restart the PC.
- Connect the USB cable, then power on the IC-7100.
- Start the Device Manager > Ports (COM & LPT)
- Make note of driver name "Silicon Labs CP210x USB to UART Bridge"
- Make note of your port numbers (**COM4** and **COM5**).

Download Fldigi Software

- Download Fldigi (3.23.00 or latest) and Flrig (v1.3.22 or latest) from www.w1hkj.com
- Download the rigCAT xml file for the IC-7100
- Copy "IC-7100.xml" to the Flrig folder (c:\Program Files(x86)\Flrig or may be in c:/users/yourusername/flrig.files)
- Join the <u>win-fldigi support group</u>

Configure IC-7100

Hint: Set > Connectors > CI-V

- CI-V Baud Rate = 19200
- CI-V Address = 88h
- CI-V Transceive = Off
- Mode = USB-D for HF, FM-D for VHF/UHF
- Data on Mod = USB
- Data Mod = USB
- USB Mod Level = some suitable value, say 30%



Configure Fldigi

- Note that COM ports cannot be shared between programs. Do not try using flrig and rigcat concurrently.
- Run Fldigi
- Configure station info: Configure > Operator
- Configure interface: Configure > Rig Control Click Initialize, Save, Close.
- Turn off RigCAT and Hamlib -- instead, RPC will communicate internally to Flrig which provides CAT control.

Fldigi configuration	Sector Ba		
Operator UI Waterfall Mo	dems Rig Audio ID	Misc Web Autostart	
Hardware PTT RigCAT Har	nlib XML-RPC		
	Rig control via ext program using xmi remote calls. @Use XML-RPC p	rogram	



Configure Flrig

- Hint: Config > Xcvr select
- Rig = IC-7100
- COM Port = COM4 or whatever was assigned on your PC
- Baud = 9600
- Click Init, Close
- See screen shots of working configuration

I/O Ports			
Primary TCPIP PTT Aux Poll Cmds Close Init <=			
Rig: IC-7100	Fldigi address: 127.0.0.1		
Retries 4 2 DB	Eldigi port 7362		
Retry intvl 4 50			
Cmds 🕊 🖣 20 🕨	Ser. Port COM7		
Poll intvl 📢 🖣 500 🕨	Baud: 9600		
Byte intvl 🕊 0 🕨	✓ 1 □ 2 -StopBits		
OPTT via CAT ORTS/CTS	0x88 CI-V adr Default		
OPTT via RTS ØRTS +12	V The second sec		
OPTT via DTR ODTR +12	v USB audio Vkey fldigi		

Run Programs

- Exit both programs
- Start Fldigi
- Start Flrig
- It should connect to both the transceiver and fldigi.
- Fldigi's waterfall should display what is heard.
- Flrig's frequency readout should track changes in the 7100's tuning knob.

The 7100's frequency display should track changes you make in Flrig's frequency.

Ting IC-7100	Firig User Interface
Eile Config Memory Help 4 4 6 0 0 0 1 4 0 0 0	Main Dialog Aspect Ratio (change requires restart)
S3 S6 S9 +20 +40 +60 vtoA vtoB A<->B Split	Freq Control top/bottom left click
P₀ 5 10 15 20	14070.000 System [gtk+ \$ UI Default]
RF 100	Font Color Back Fgnd Bngd Bgnd2
SQL 10	Smeter 15 -1
	Swr15 2 3 SWR Binga Button
MIC 10	Pw 20 40 60 80 Peak
PWR 5 Image: Constraint of the state of the stat	Reset Cancel OK <= Lt Btn Default