fldigi setup using C-Media Digital Interfaces

(NS7C 5-18-2020)

Applies to: Masters Communications RA and DRA series adapters, RIM Lite series, URI, and many other "Allstar" type sound card adpaters

Download the latest fldigi: <u>http://www.w1hkj.com/</u>

Download the latest com0com: https://sourceforge.net/projects/com0com/

Download CAT7200 beta v2.1: http://www.cantab.net/users/john.wiseman/Downloads/Beta/CAT7200.exe

Also, download the HID library support dll: http://www.cantab.net/users/john.wiseman/Downloads/Beta/HidLibrary.dll

Install com0com, run the setup application, and create a port pair. Use the "use Ports class" option, and all other default settings, then click Apply. You can then close com0com:



Start Device Manager and locate the HID device and the VID and PID of your interface. This is a bit complicated. You must locate the correct USB Input device (there may be several), then display the properties and hardware IDs. Experience shows that the VID is xD8C and the PID is usually either x008 (CM-108 devices) or x13A (CM-119 devices):



Start CAT7200 and configure it to use one of the COM ports in the com0com pair (doesn't matter which port). Then select "cm108" as the CAT port and input the VID and PID values from the previous step (leading zeros are not needed). Press Open to start the port. The Test button may or may not work. Some sound card interfaces will only PTT if an application is running that is using the device (like fldigi).

🔛 CAT7200	-	_	
Application Por	t		CAT Port
COM17	•	RX	CM108 -
None	-	RX	VID (Hex) d8c
None	-	BX	PID (Hex) 13a
			Test
None	•	RX	TOST
		Open	
		opon	

Install fldigi using the installer downloaded above. Start fldigi and select Configure \rightarrow Soundcard. Under the Devices tab, check PortAudio and select the C-Media device for both Capture and Playback.

Fldigi	configuration							—		×
Operator	UI Waterfall	Modems	Rig Audio	ID Misc	Web	Autostart	IO PSM			
Devices	Settings Right	channel W	av							
	⊖oss					Der	vice:			
	⊘PortAudio		Capture:	RA-35 (USB	PnP So	und Device)			+	
			Playback:	RA-35 (USB	PnP So	und Device)			¢]	
)	S	erver string:						
	□File I/O on	ly								
Re	estore defaults					Sav	e		Close	<=

Under the Right Channel tab, check Modem signal on left and right channels, then Save and Close.

Fldigi configuration	_		\times				
Operator UI Waterfall Modems Rig Audio ID Misc Web Autostart IO PSM							
Devices Settings Right channel Wav							
Transmit Usage							
Modem signal on left and right channels							
OReverse Left/Right channels							
OPTT tone on right audio channel							
○CW QSK signal on right channel							
○Pseudo-FSK on right audio channel							
These controls are on other tabs. They are replicated here for convenience. You may change the state from either location.							
Receive Usage							
Restore defaults Save	C	lose	~				

Now select Configure \rightarrow Rig Control. Under the Hardware PTT tab, check Use separate serial port for PTT, and check Use RTS. Under Device, select the COM port that is the pair of the COM port selected under CAT7200. Click Initialize, then Save and Close.

Fldigi	configuration			_	×
Operator	UI Waterfall Modems Rig Audio ID Misc	: Web Autost	art IO PSM		
flrig RigC	AT Hamlib XML-RPC Hardware PTT GPIO				
	OPTT tone on right audio channel				
	h/w ptt device-pin				
	✓Use separate serial port PTT	✓Use RTS	⊡RTS = +V		
	Device: COM16		ODTR = +V		
			Initiali	ze	
	PTT delays valid for all CAT/PTT types				
	Image: Constraint of the second se	, ,			
Re	store defaults		Save	Close	<u><-</u>

You are now set up for fldigi operation using a C-Media based sound card interface.

Optional step, use a Windows Batch file to start CAT7200, open the ports, start fldigi, and then close CAT7200 when fldigi closes.

With Notepad or similar editor, create a batch file called fldigi Start.bat (or whatever name you like). The file should look like this, adjust the file name locations to reflect where you saved CAT7200:

@echo off

REM Start CAT7200 and fldigi REM Edit the folder locations if you stored the programs in a folder other than C:\Ham REM Save this file to the desktop, and just double click it to run, or better yet REM save the file to a folder (like C:\Ham), then create a desktop shortcut that points to this file. REM You can then change the shortcut properties to run minimized, and REM also change the icon, browse to the C:\Program Files (x86)\fldigi folder and select the fldigi.exe file for the program icon.

start "CAT7200" "C:\Ham\CAT7200\cat7200.exe" START start /wait "fldigi" "C:\Program Files (x86)\Fldigi-3.23.21\fldigi.exe" taskkill /im cat7200.exe exit

Create a new shortcut to this file on your desktop. Edit the shortcut properties and set it to start minimized, then change the icon to point to the fldigi icon in "C:\Program Files (x86)\Fldigi-3.23.21\fldigi.exe ". This batch file will start CAT7200, open the port, then start fldigi. When fldigi is closed, CAT7200 will close as well.

🔊 fldigi Start P	roperties			×
Terminal	Security	Details	Previo	us Versions
General Sh	nortcut Optio	ons For	nt Layout	Colors
flc	ligi Start			
Target type:	Windows Batch	n File		
Target location	: Ham			
Target:	"C:\Ham\fldigi	Start.bat"		
Start in:	C:\Ham			
Shortcut key:	None			
Run:	Minimized			\sim
Comment:				
Open File L	ocation Ch	ange Icon	Advanc	ed
		ОК	Cancel	Apply