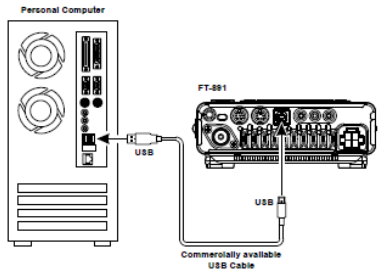
# Using the Yaesu SCU-17 usb data interface with Yaesu FT-891 Transceiver

The Yaesu SCU-17 is a robust metal cased usb powered interface for use with AFSK and FSK data modes, providing CAT control, PTT switching, and front panel controls for input/output audio level. Two usb cables and a Yaesu data cable will be required to fully interface with the Yaesu FT-891.

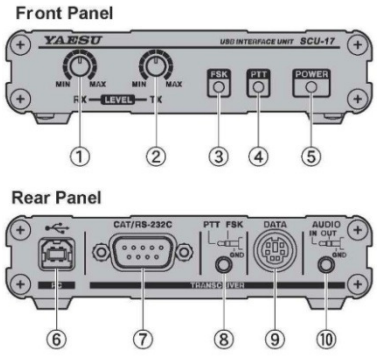
**NOTE: The Yaesu-891 handles CAT control through its own usb interface on the rear of the radio not the data port and SCU-17. Plug one of the usb cables into the usb socket on the rear of the Yaesu FT-891 and pc as below to enable CAT control.**




**Connecting the Yaesu SCU-17 interface**

1. Connect the data cable between the Yaesu SCU-17 [label 9 in the picture below] and the Yaesu FT-891 data port.

2. Connect a usb cable between the Yaesu SCU-17 [label 6 in the picture below] and a second usb port on your computer.



If your computer is OFF, power it ON. I would recommend that if any changes are made to port settings for the Yaesu SCU-17 or the Yaesu-891 that you disconnect and reconnect the usb connection to the device.

The ports allocated by Windows can vary depending on what you have connected to the computers usb ports. Below are my settings for the usb COM ports when displayed in Windows Device Manager. If you are unsure how to view Windows Device Manager consult your manual.

Your COM port numbers assigned to the Yaesu SCU-17 and Yaesu FT-891 interfaces may be different to mine due to other devices connected to your PC therefore either adjust the notes accordingly to suit your COM ports or change them in Device Manager to those below by right click each COM port in Device Manager and select “Properties “, “Port Settings”, “Advanced”, and “Port Settings” from the dialog box.


**In my setup I will use the following COM port settings:**

**Yaesu FT-891 USB Port**
CAT (for frequency control) via Com 4 - Enhanced COM Port
No Handshake
8 data bits / 2 stop bits
4800 baudrate

**Yaesu SCU-17 (FT-891)**
PTT (RTS) via Com 7 - Standard Port (SCU-17)
FSK/PTT via Com 7 - FSK (DTR) / PTT (RTS)

**AirLink Express** http://www.airlinkexpress.org/
PSK and true FSK RTTY use.

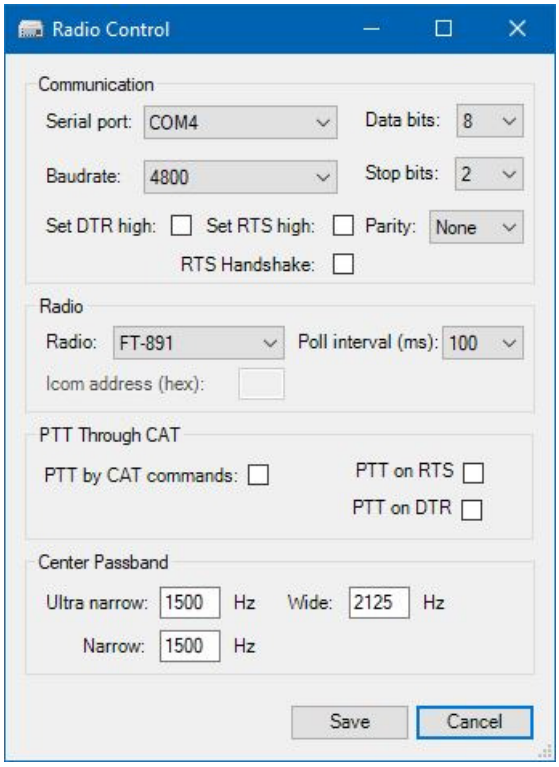
**Fldigi** https://sourceforge.net/projects/fldigi/files/fldigi/
Various AFSK data modes

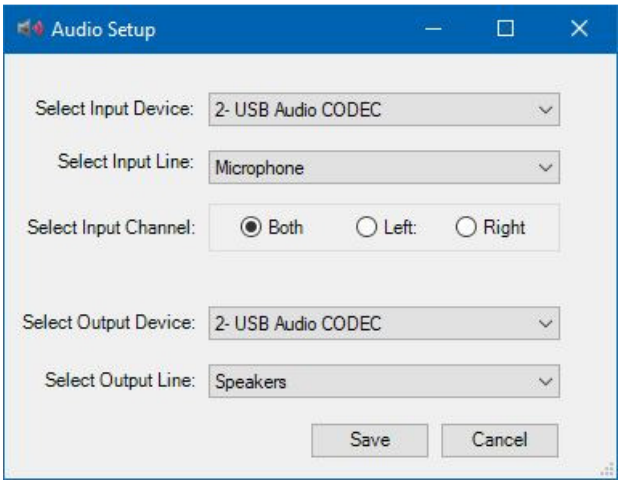
**WSJT-X** https://physics.princeton.edu/pulsar/k1jt/wsjtx.html
Various weak signal modes

**JS8Call** http://js8call.com/downloads/
Weak signal data communication

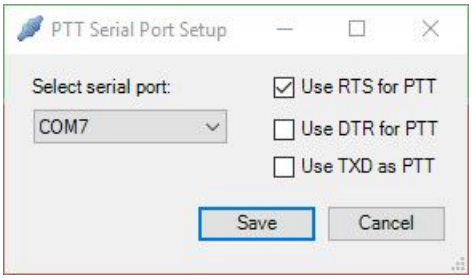
**Below are screenshots of the Radio and Audio configuration settings of the software named above.**

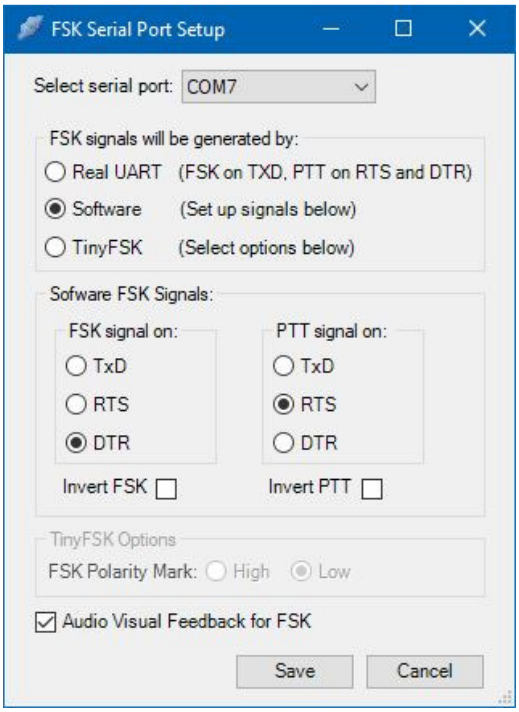
**Airlink Express configuration (page 1 of 2)**



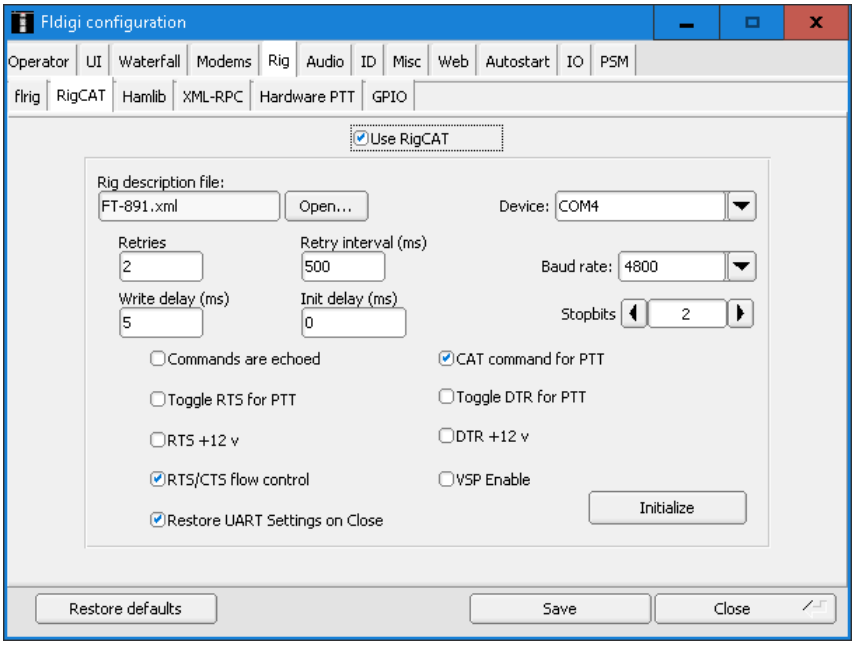



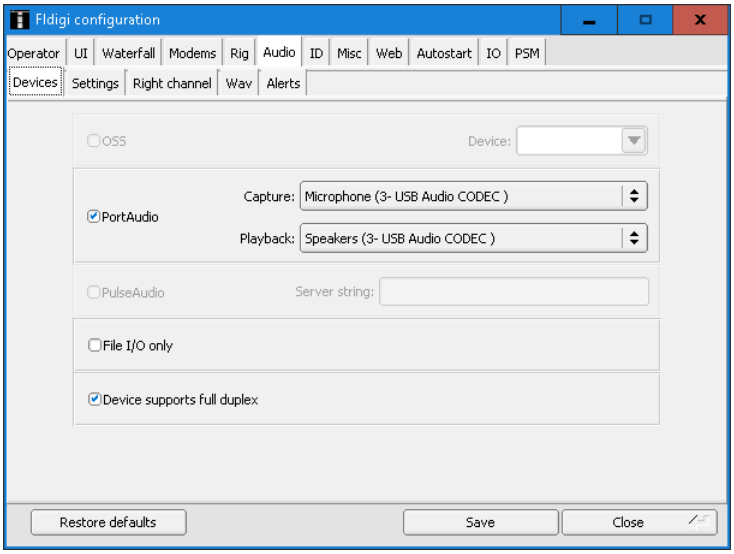
**Airlink Express configuration (page 2 of 2)**

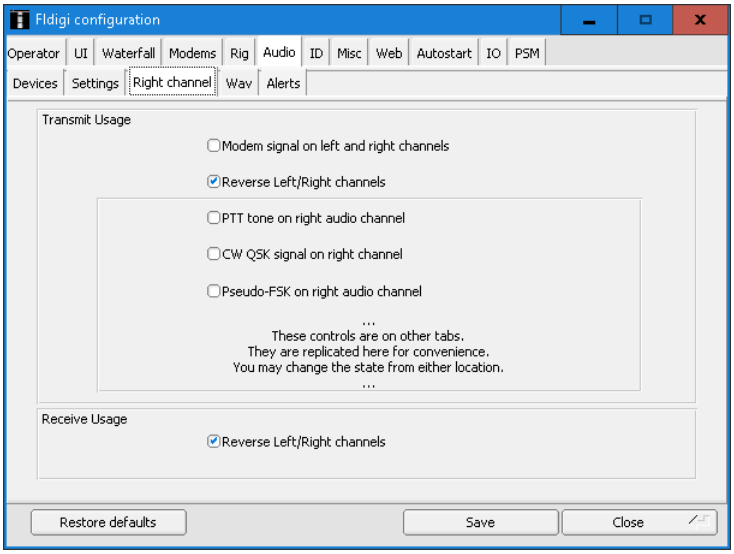


## Fldigi configuration

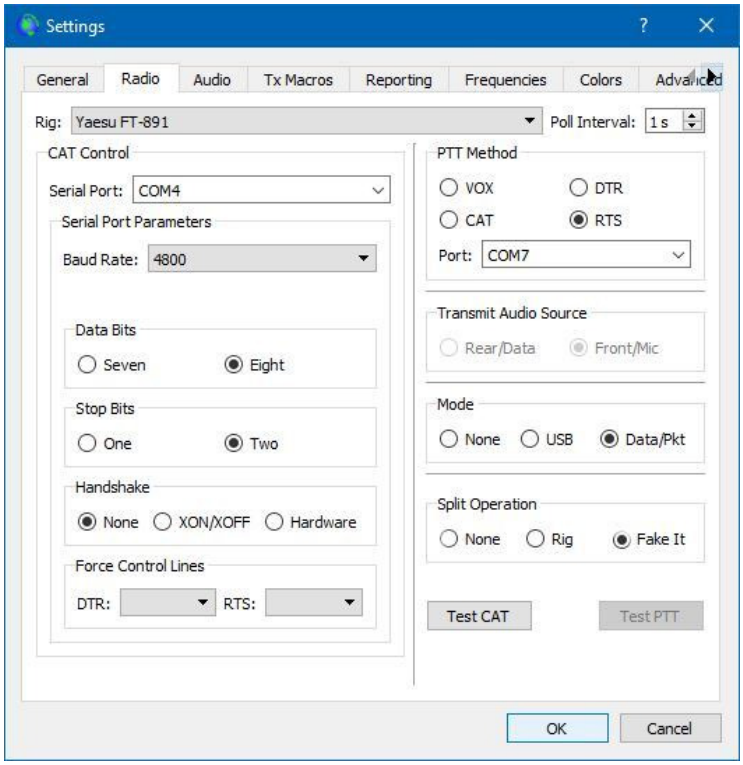


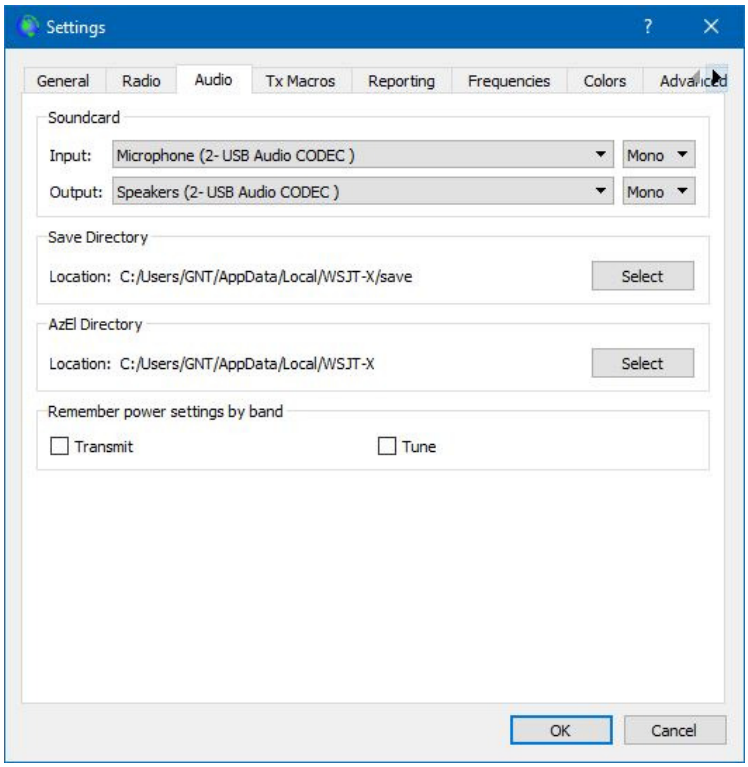



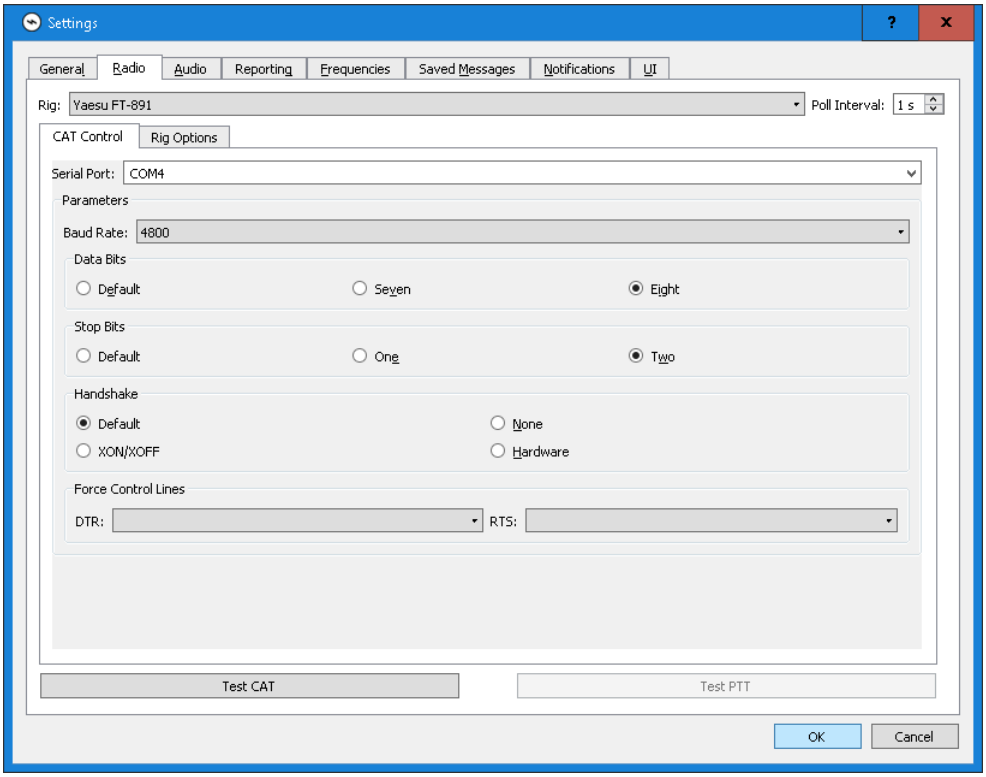

The FT-891.xml Rig description file is a renamed FT-991.xml file which appears to work for the FT-891. The FT-991.xml can be downloaded from the Fldigi SourceForge site https://sourceforge.net/projects/fldigi/files/xmls/yaesu/

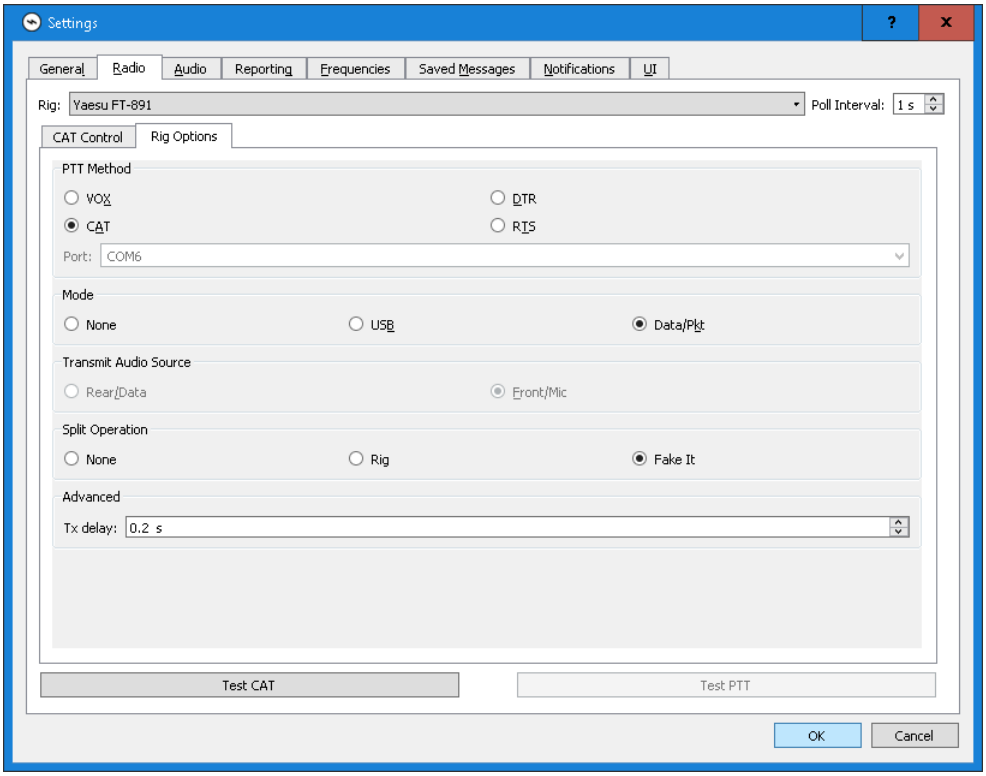
## WSJT-X configuration



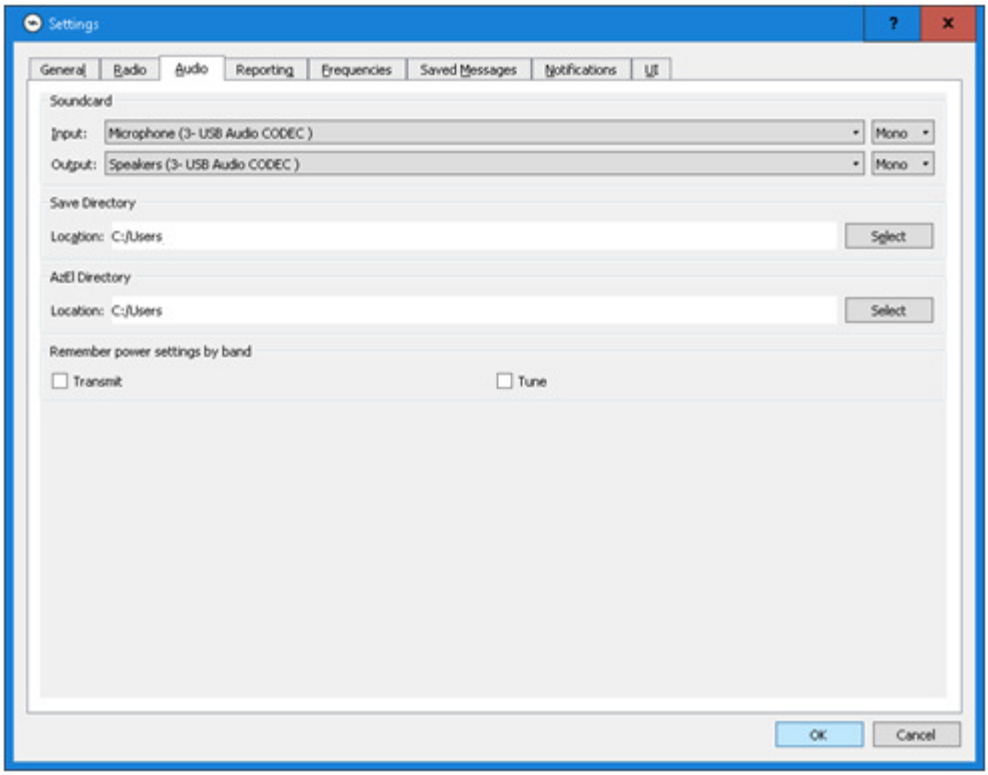



## JS8Call configuration (page 1 of 2)



**JS8Call configuration (page 2 of 2)**




73
Glen
G0SBN