

Flashing the OrangeRX LRS 433mhz JR module for Taranis.

### 1) Download Chrome

### 2) Add openlrs configurator to chrome (Search for openlrs configurator in chrome)

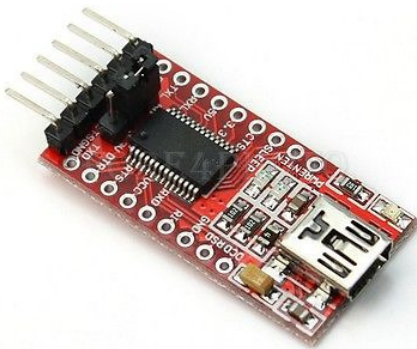
### 3) Connect TX to USB Serial adapter

**IMPORTANT: Must be set to 3.3 volts, NOT 5 volts!!**

I used this one from ebay:

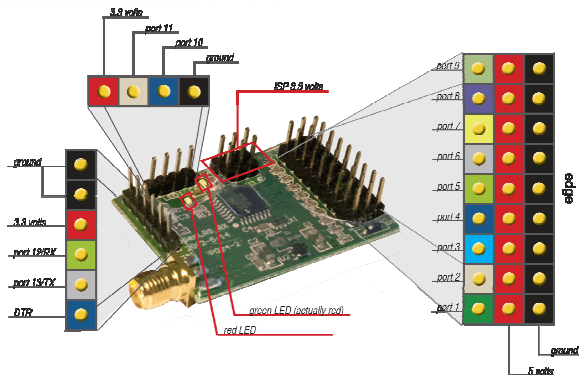
FT232RL FTDI USB 3.3V 5.5V to TTL Serial Adapter Module for Arduino Mini Port

[http://www.ebay.com/itm/291192178803?\\_trksid=p2060778.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT](http://www.ebay.com/itm/291192178803?_trksid=p2060778.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT)



You can see the pin labels if you look really close. But, here they are from top to bottom:

DTR  
RX  
TX  
VC (+ voltage)  
CTS (unused for this)  
GND (ground)



**ANTENNA MUST BE CONNECTED!!!!!!**

Connect this to the TX Via the 6 pins by the antenna (Left side in pic). I used male-male servo connectors.

**IMPORTANT: I could only get the connection to work by connecting the USB rx to the TX TX pin. And the USB TX pin to the TX RX pin.**

port	default	alternates
1	high-frequency RSSI	
2	channel 1	
3	channel 2	
4	channel 3	
5	channel 4	
6	channel 5	PPM
7	channel 6	
8	channel 7	
9	channel 8	
10	analogue 0	SDA
11	analogue 1	SCL
12	RX	
13	TX	

TX		USB
DTR	to	DTR
TX	to	RX
RX	to	TX
3.3V	to	VC
GND	not used	
GND	to	GND

### 4) Connect USB to computer USB port. Both Windows 7 and XP worked for me.

The system should automatically install the drivers. If not, get them from here:

<http://www.ftdichip.com/Drivers/VCP.htm>

Installation instructions for driver:

<http://www.ftdichip.com/Support/Documents/InstallGuides.htm>

### 5) Open Chrome configurator (under chrome apps)

### 6) Click on Firmware Flasher

You will not have success using connect button until tx is flashed.

## **7) Choose your firmware**

I tried the “openlrsngtx”, but couldn’t get transmitter to transmit afterwards.

So I chose to use flytron m2/m3. This worked fine.

## **8) Flash the firmware.**

### **9) Click the connect button to flash the receiver, but...**

I had to disconnect the GND lead on the tx and plug it into the taranis transmitter – USB doesn’t have the power needed for the transmitter.

I could only flash the receiver by following this procedure.

a) Have a battery and an ESC ready and plugged into the RX channel 1. Black or brown to the outside. DO NOT PLUG IN BATTERY YET.

b) Make sure configurator is open, USB is unplugged, and radio is off.

c) Plug in USB (configurator should connect automatically), wait about 5 seconds, turn on Taranis, when blue light starts blinking plug in RX battery.

The Taranis blue light will become solid and the lights will change on the receiver.

d) Click on rx tab in configurator.

e) If the default settings are fine, save to rx.

If you have another receiver do this same procedure with that one. NOTE: It is very important to follow ‘c’ above in the exact order.

Disconnect everything and bind the receiver to your transmitter – Turn on transmitter, press black button in JR Module for a few seconds and release. When binding is complete turn transmitter on and off again.

You are done