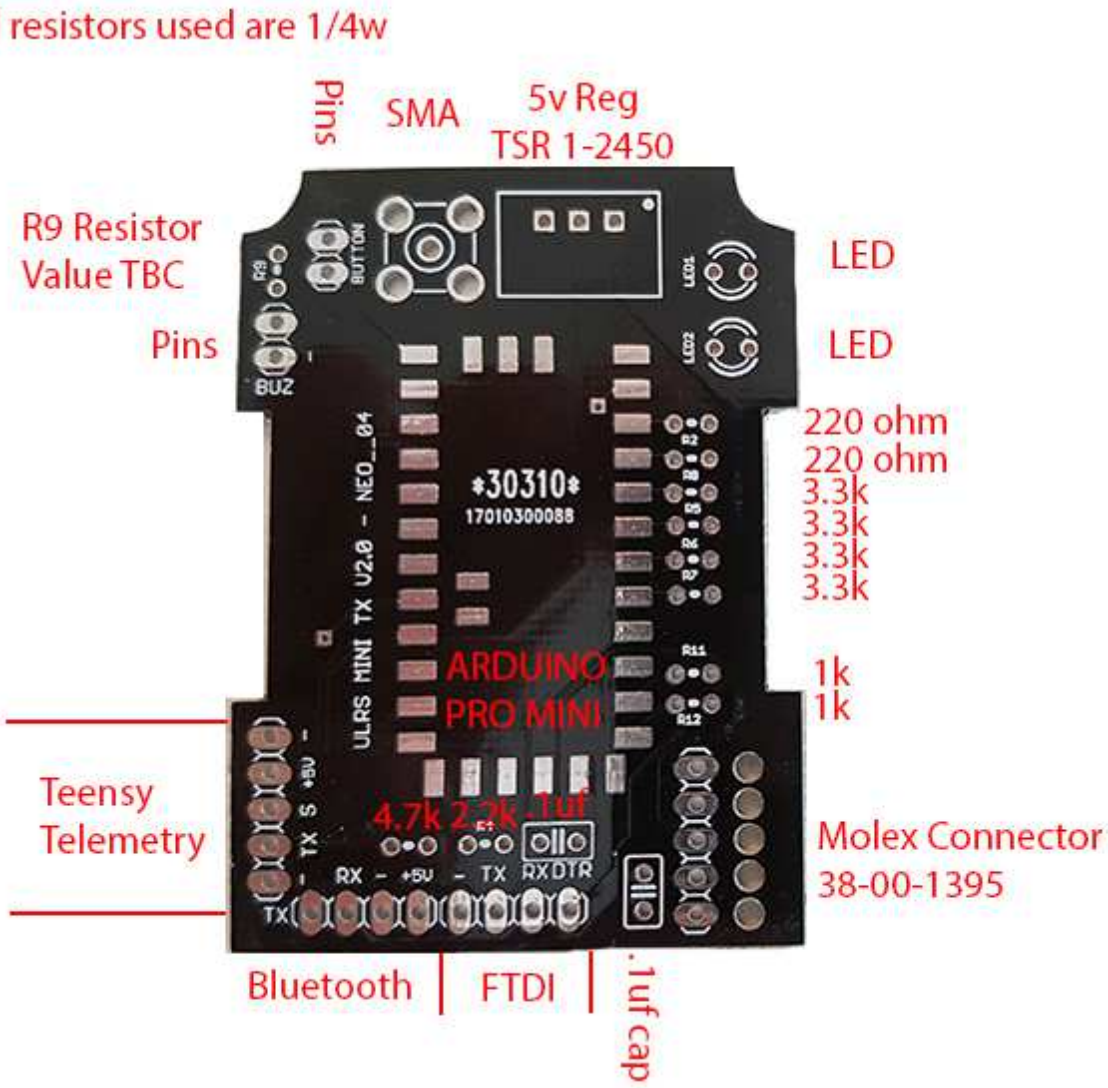
Monkey Board – RX & TX

Instructions.



Parts List

5v Regulator
http://au.element14.com/tracopower/tsr-1-2450/converter-dc-dc-5v-1a-sip/dp/1696320
Molex Connector
http://uk.farnell.com/molex/38-00-1395/socket-pcb-0-1-5way/dp/9732349
.1uf Capacitor
http://au.element14.com/multicomp/mc0805y104m500a2-54mm/capacitance-0-1-f/dp/2112751

Everything in this build is fairly simple.
The only slightly tricky part is soldering the Arduino pro mini.
My method which has been flawless for me so far is to put a little solder blob on each of the pads, do the same for the solder points on the Arduino. Sit the Arduino over the solder blobs in the appropriate position. Get plenty of solder on the end of the soldering iron then put it on one of the pins, give it 3-5 sec approx. waiting for it to melt through the board and to melt into the solder pad on the pcb. From there it will hold itself in place, so just go around all the pins

repeating the process. If you do the Arduino at the start before you put any other components on, you can actually see when the solder melts and joins the solder on the pcb.

Sounds tricky but its actually quite easy once you have done the first couple of pins.

On the RX board I have left the FTDI pins off the pcb to make it as small as possible.
I just solder on some temp wires when I need to flash the board, otherwise you could slip in some right angle pins if you like.