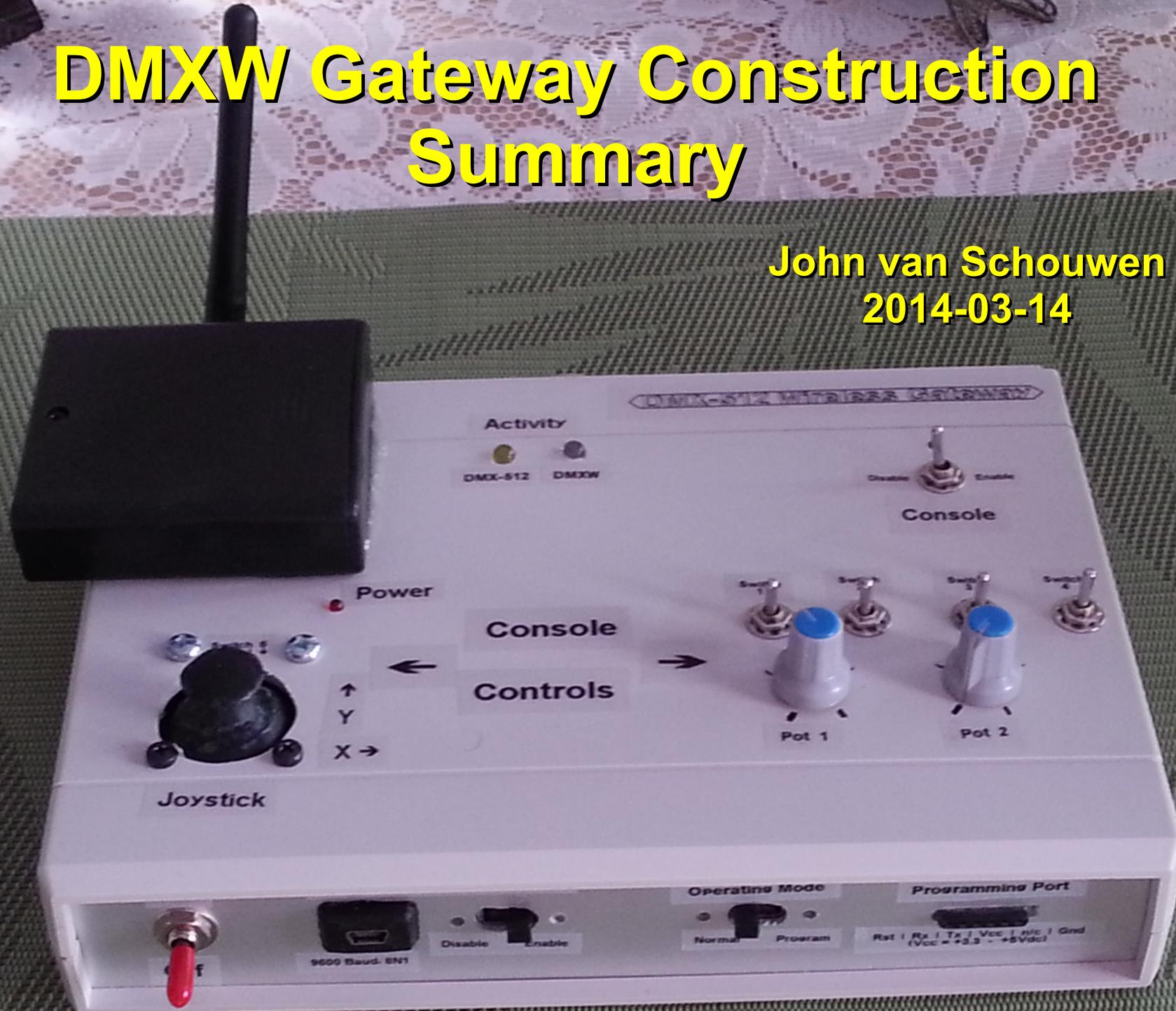


# DMXW Gateway Construction Summary

John van Schouwen  
2014-03-14





## DMX-512 Wireless Gateway

### Activity

DMX-512   DMXW

Disable    Enable

### Console

#### Power



Switch 5  
(Press) ↓



### Joystick

### Console

### Controls



Y

X →

Switch 1

Switch 2

Switch 3

Switch 4



Pot 1



Pot 2



**On**



**Off**

**Config Port**



9600 Baud, 8N1

**Config Enable**



Disable      Enable

**Operating Mode**

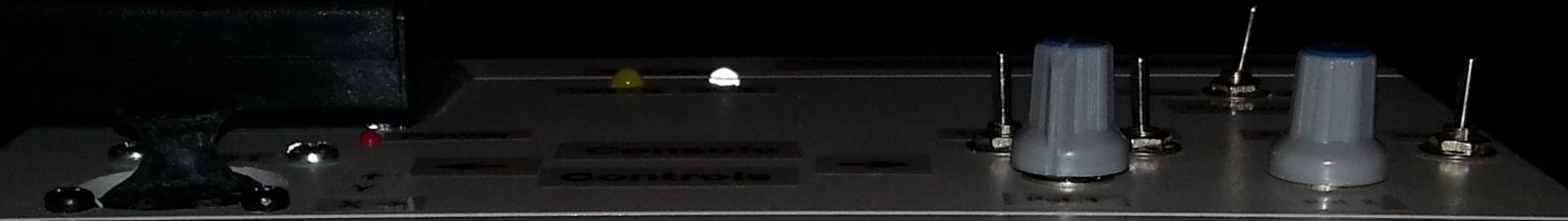


Normal      Program

**Programming Port**



Rst | Rx | Tx | Vcc | n/c | Gnd  
(Vcc = +3.3 - +5Vdc)





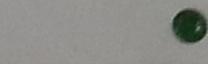
**6 - 12 Vdc, 200 mA  
(center negative)**

# DMX-512 Wireless Gateway

## Activity



DMX-512 DMXW



Disable

Enable

## Console

### Power



Switch 1

Switch 2

Switch 3

Switch 4

## Console

## Controls



↑  
Y

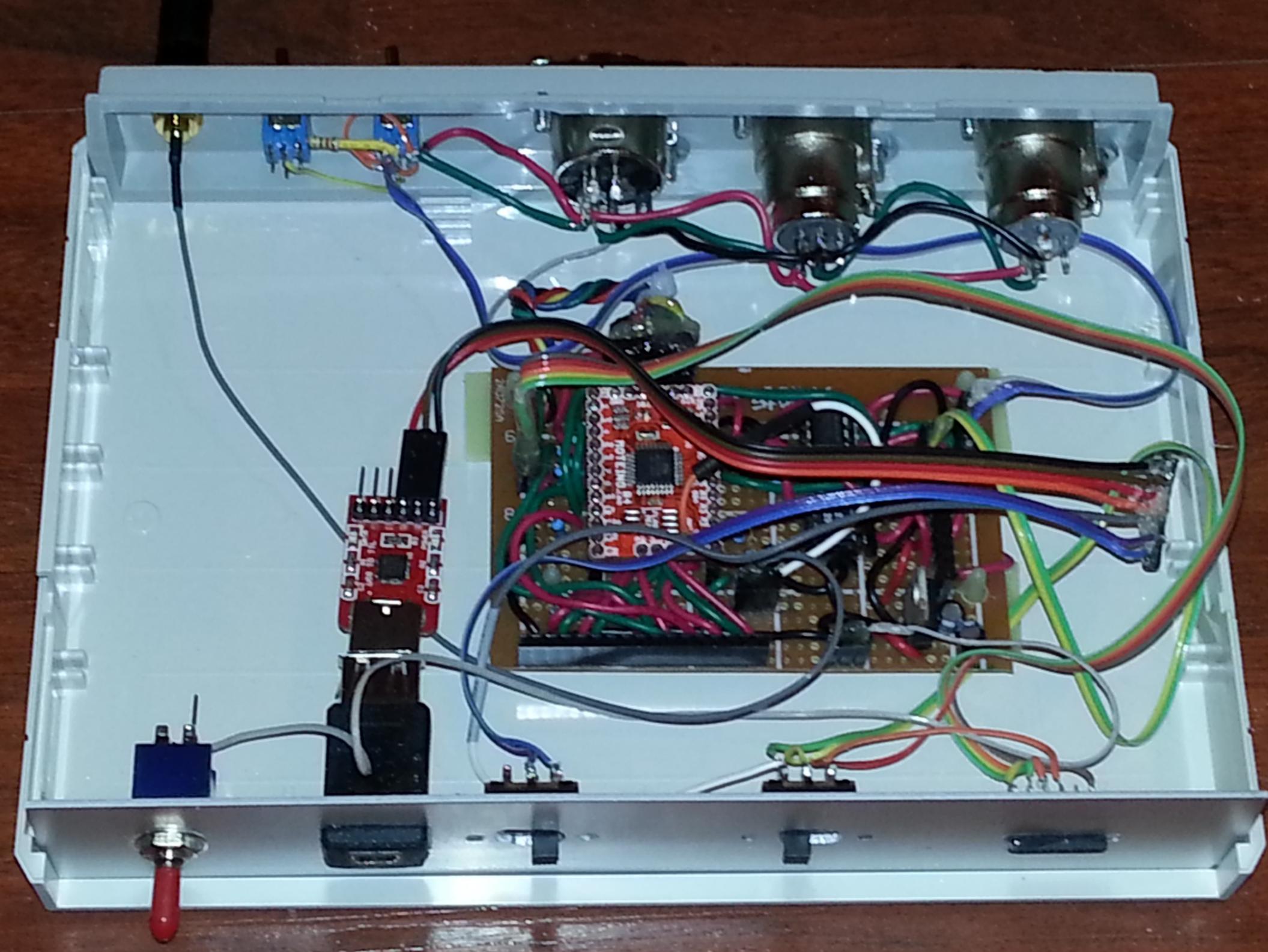
X →

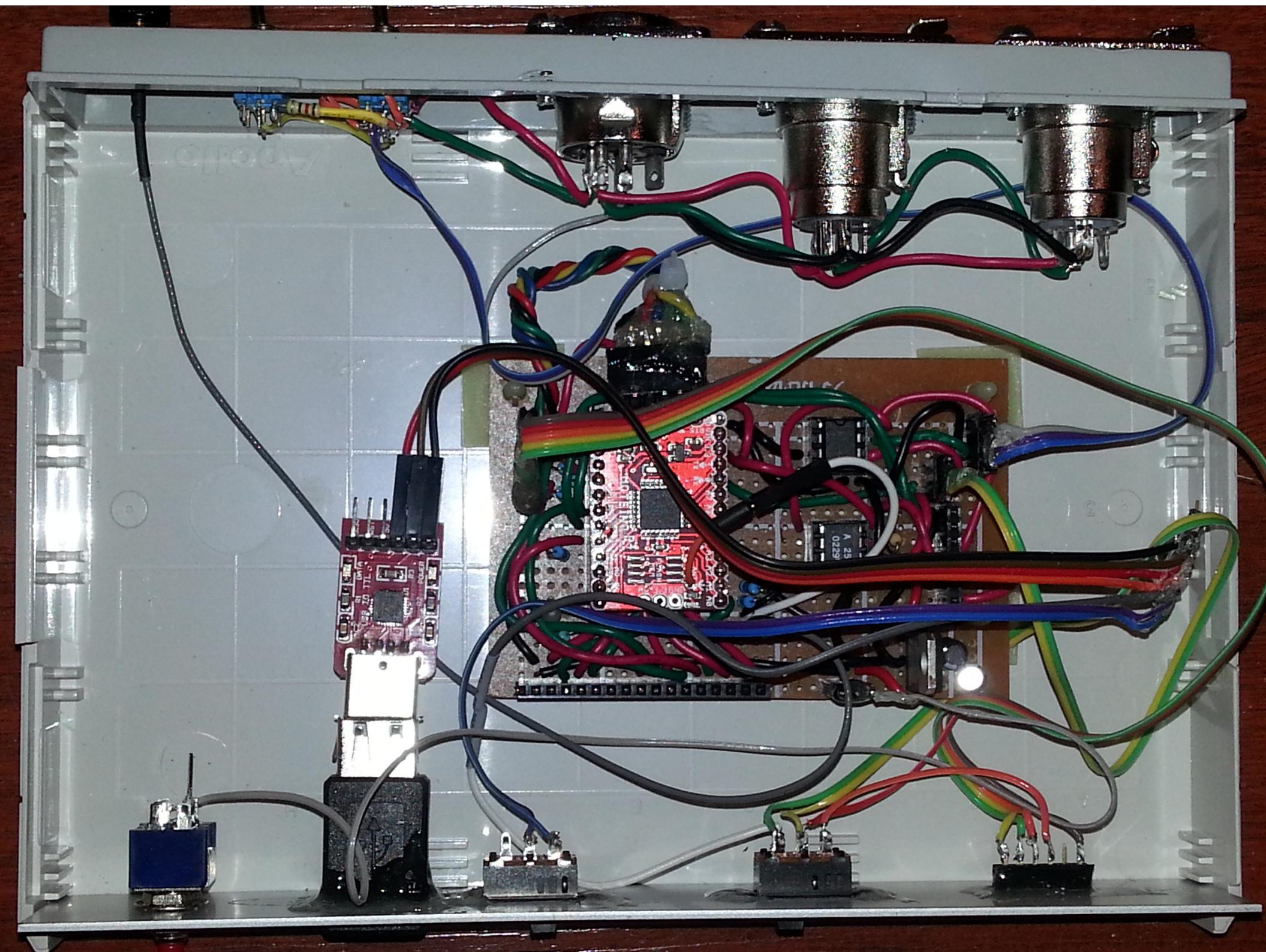
Pot 1

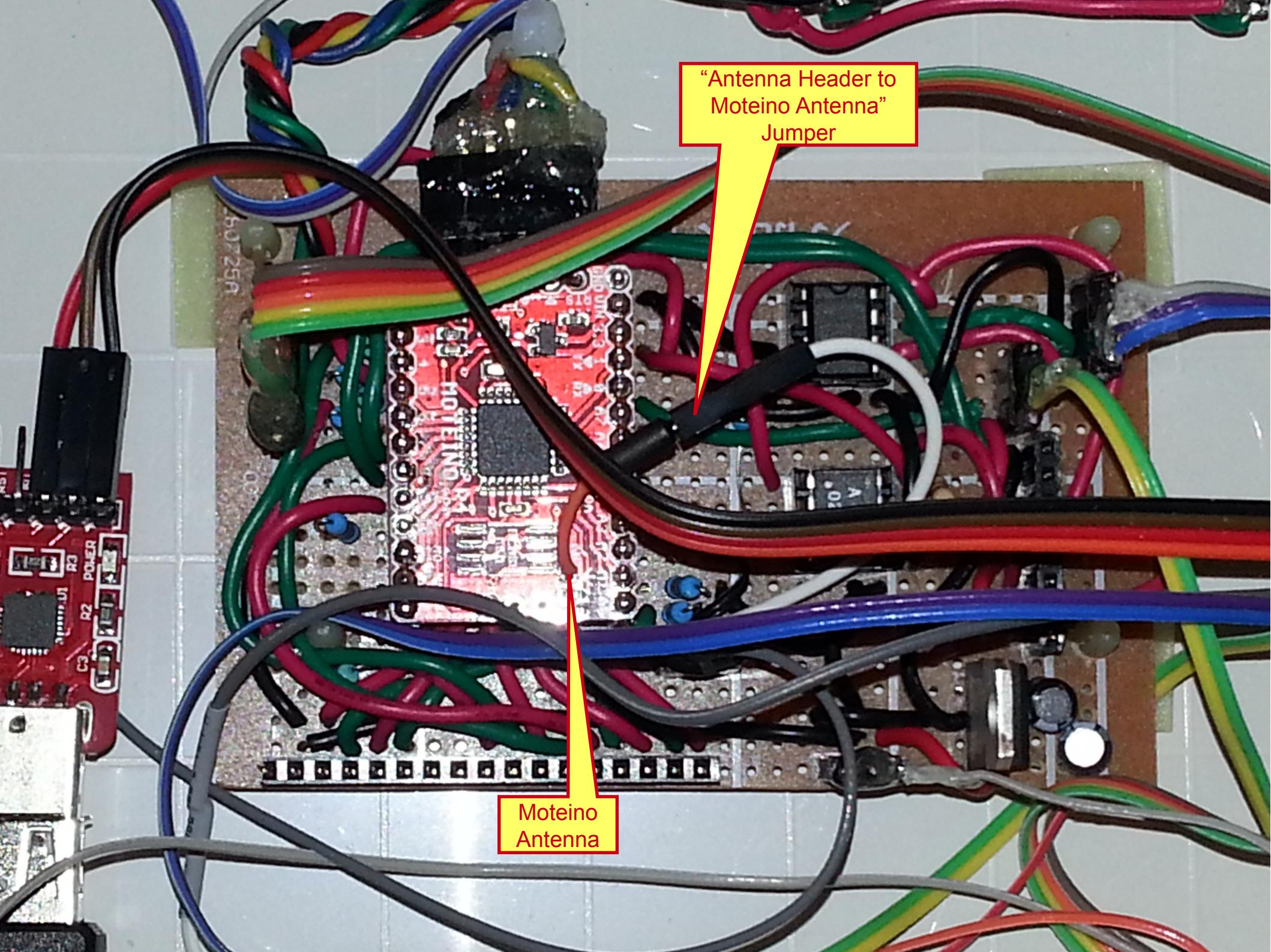
Pot 2

## Joystick





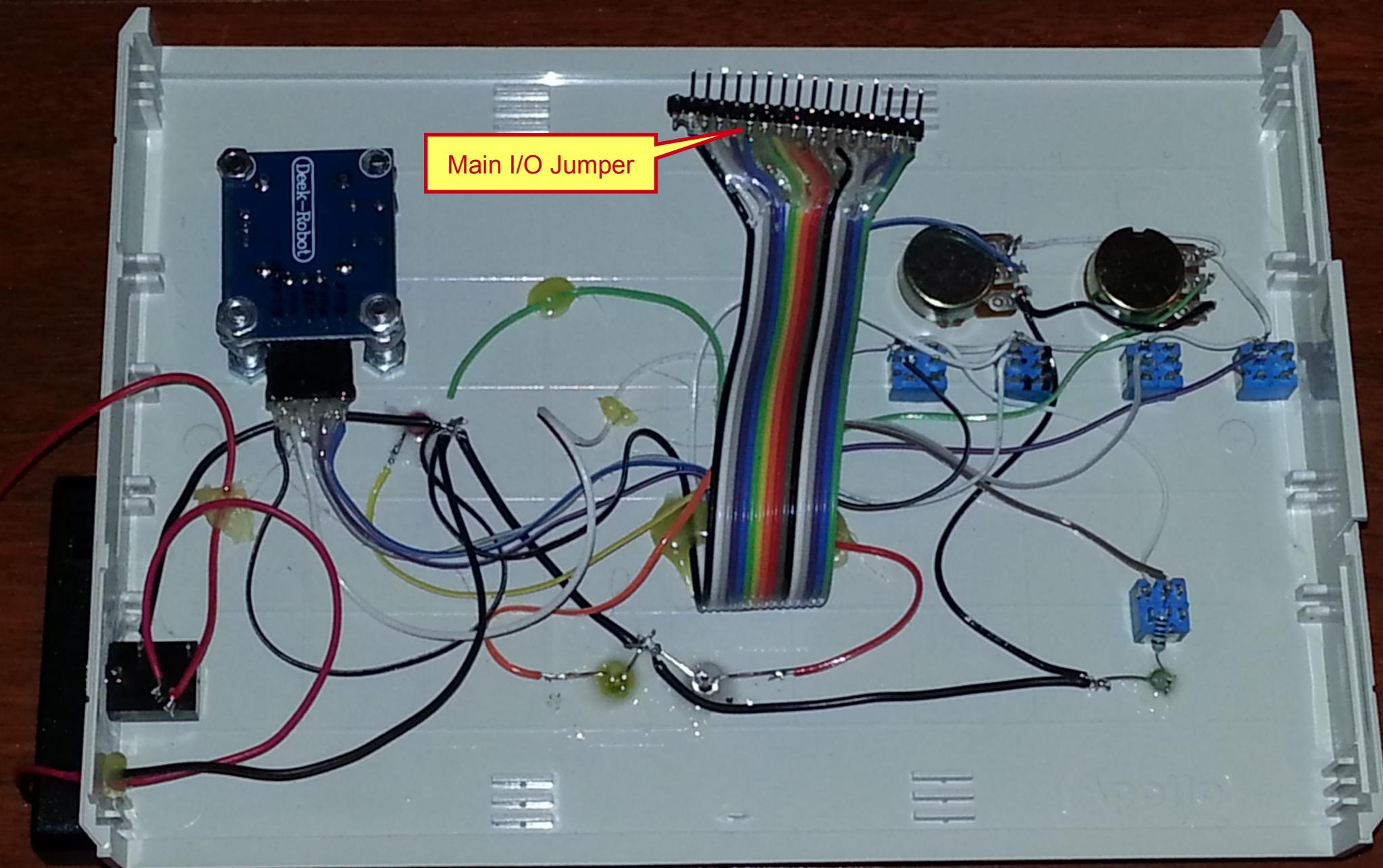


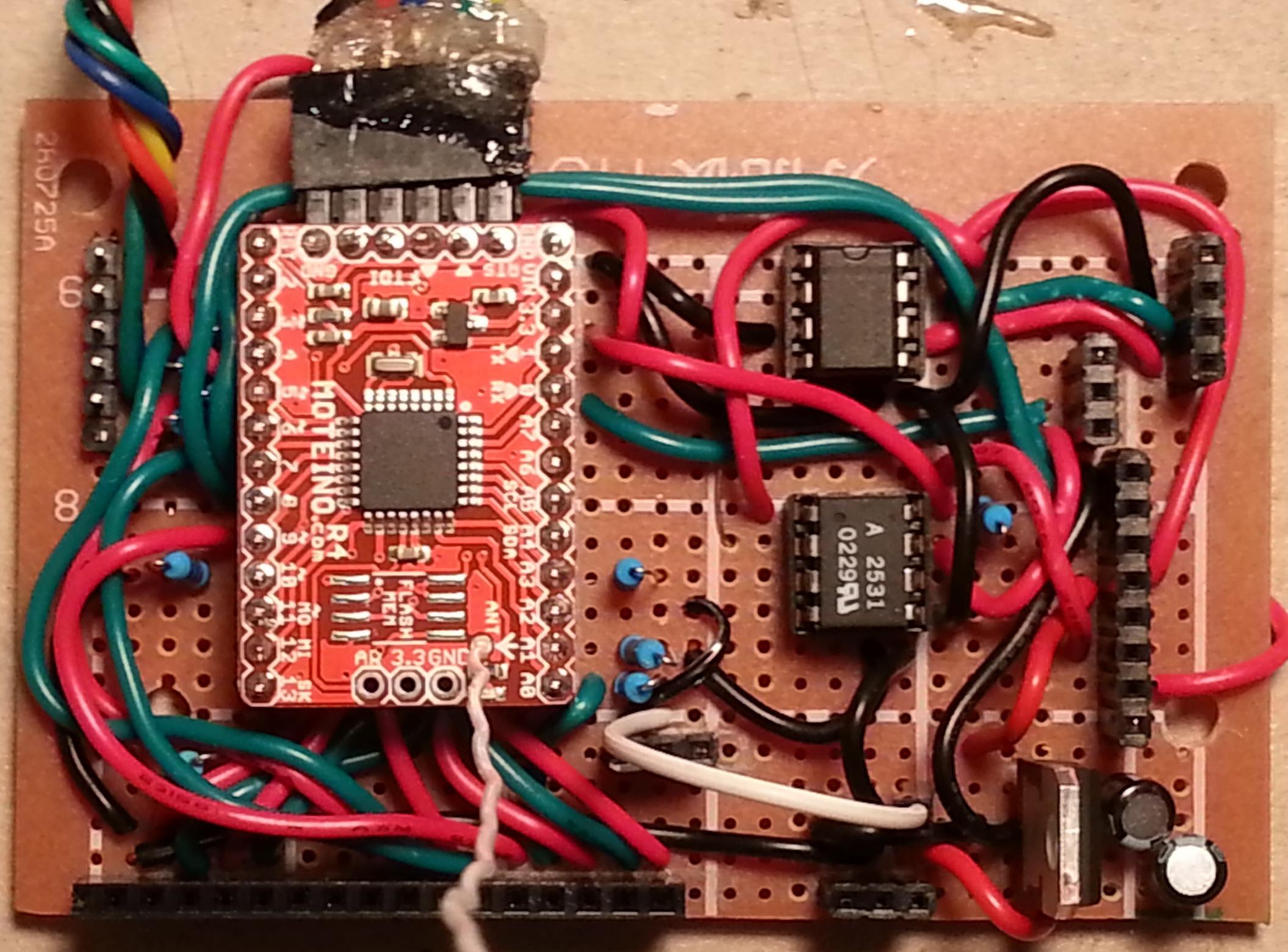


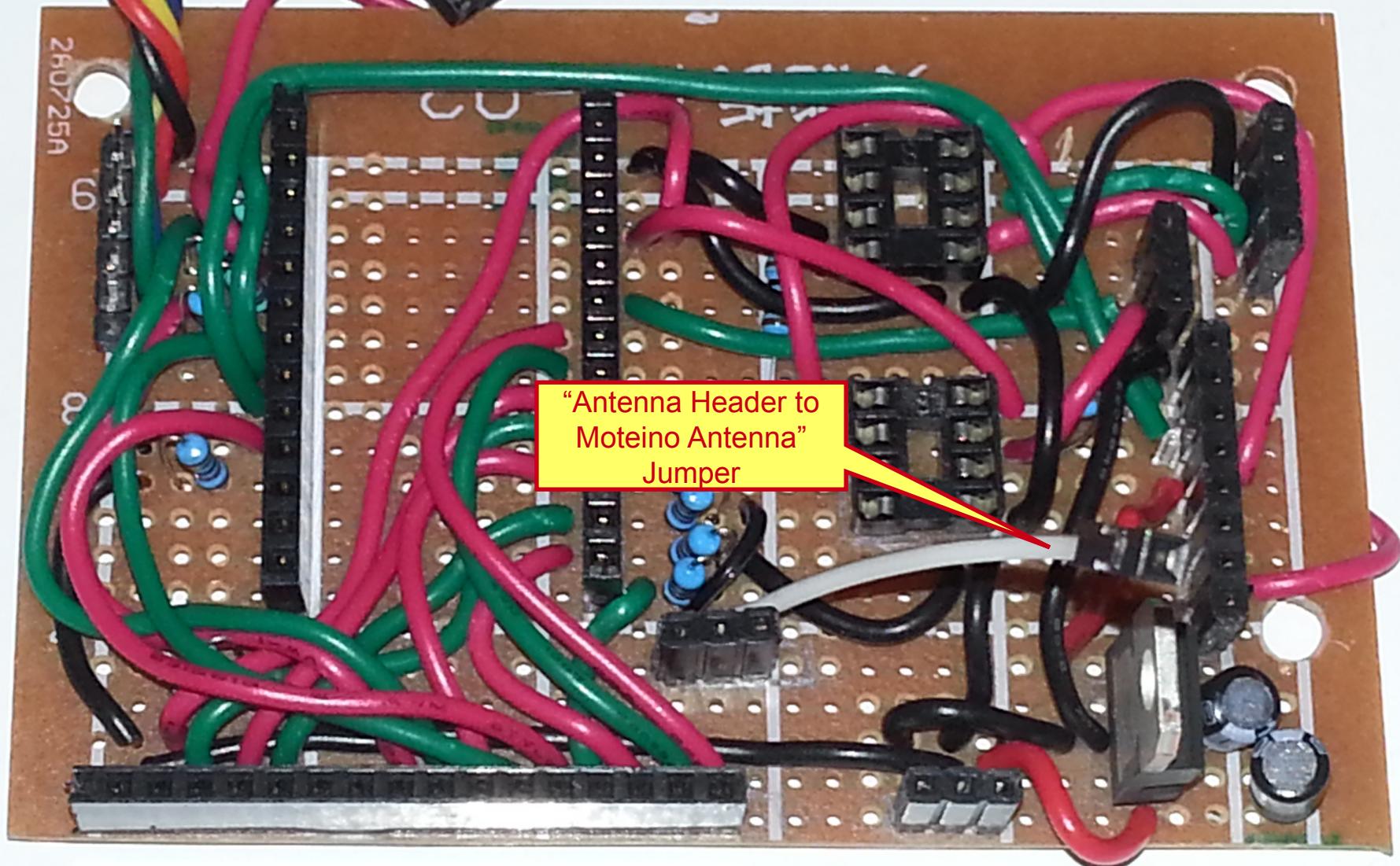
"Antenna Header to  
Moteino Antenna"  
Jumper

Moteino  
Antenna



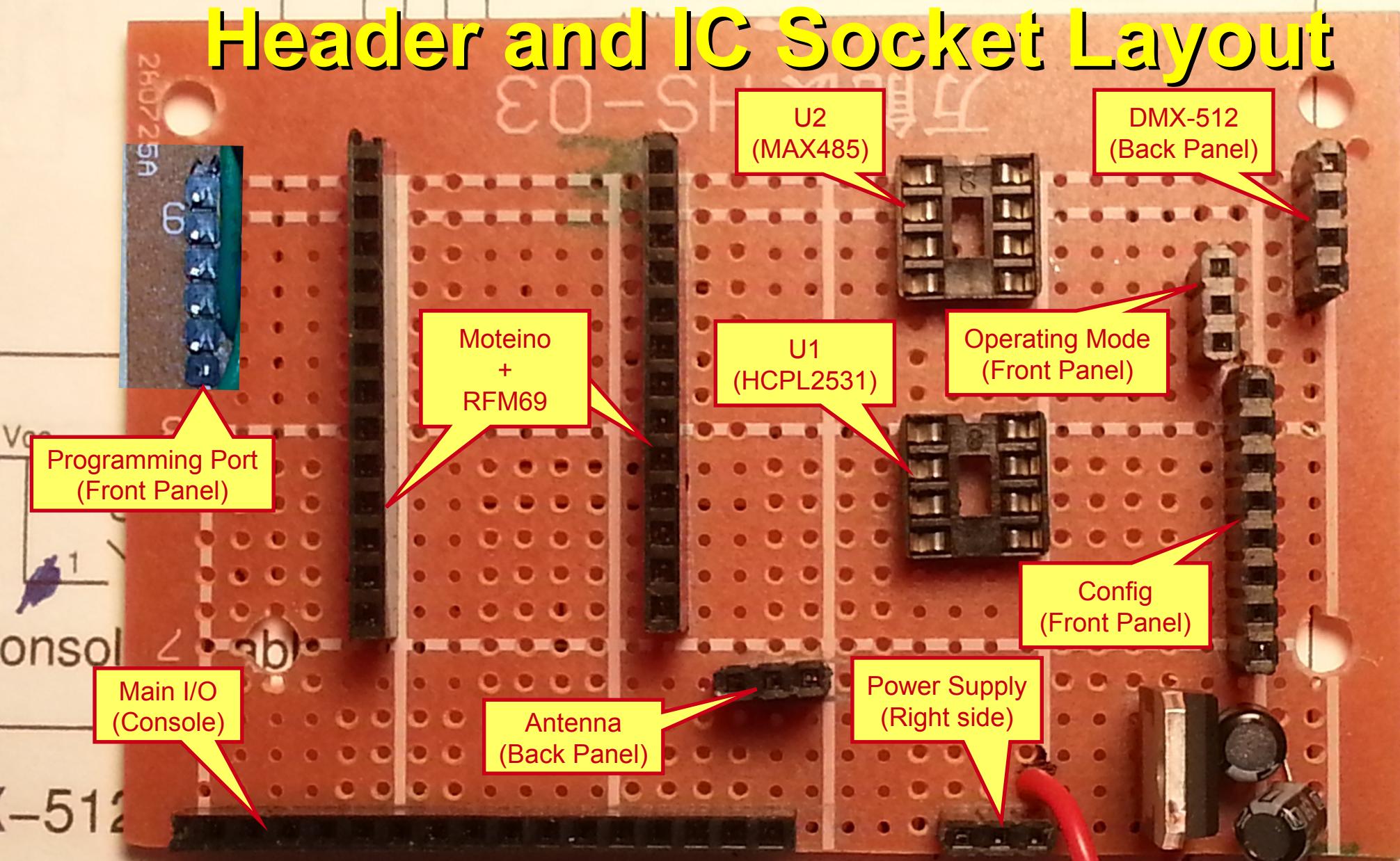






## Console Controls

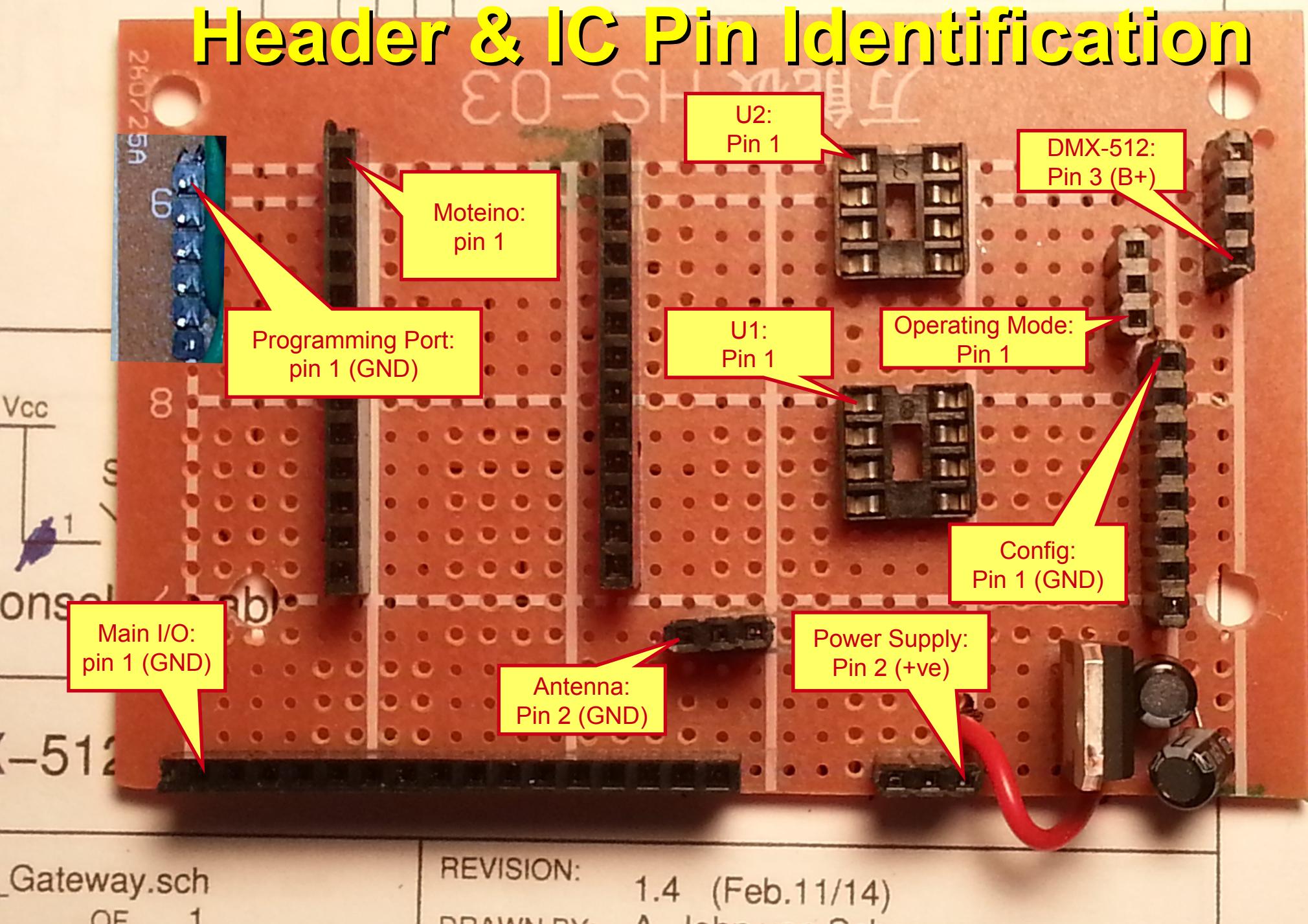
# Header and IC Socket Layout



All headers have orientation: the male end of the connection has a cut-off pin jammed in at one end.

## Console Controls

# Header & IC Pin Identification



# Header Pinouts

## Programming Port

- Programming Header to board
- Opposite side of header goes, via connector cable, to Moteino

1 GND

2 +3.3 – 9 Vdc

3 RX (Moteino RX)

4 TX (Moteino TX)

5 RST

# Header Pinouts

## Config

1 GND

2 RX

3 TX

4 +5 Vdc

5 +5 Vdc

6 Config Enable Switch (1 of 2)

7 Config Enable Switch (2 of 2)

# Header Pinouts

## Main I/O

1	GND	9	DMXW Activity LED [out]
2	Vcc (+3.3 Vdc)	10	Console Enable Sw [in]
3	Joystick X-axis [in]	11	Switch #1 [in]
4	Joystick Y-axis [in]	12	Switch #2 [in]
5	Joystick button (Switch #5) [in]	13	Switch #3 [in]
6	<i>n/c</i>	14	Switch #4 [in]
7	Power LED [out]	15	Potentiometer #1 [in]
8	DMX-512 Activity LED [out]	16	Potentiometer #2 [in]

# Header Pinouts

## DMX-512

- 1 GND
- 2 A (-)
- 3 B (+)

## Antenna

- 1 GND
- 2 ANT

## Operating Mode

- 1 Operating Mode Sw (1 of 2)
- 2 Operating Mode Sw (2 of 2)

## Power Supply (raw, unregulated)

- 1 GND
- 2 +6 – 12 Vdc

# DMX-512 Polarity Reversal and Termination Resistor Circuitry

