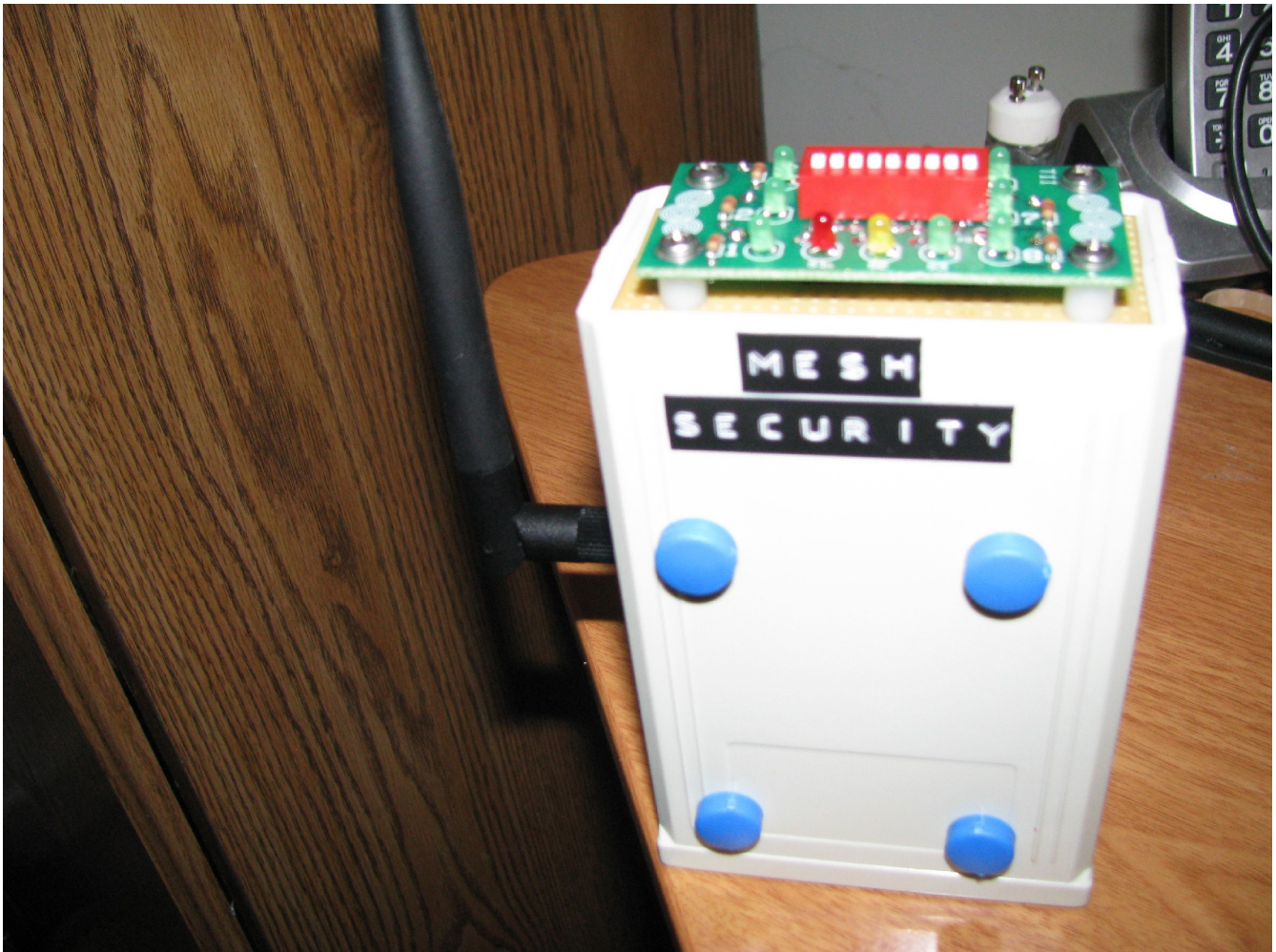


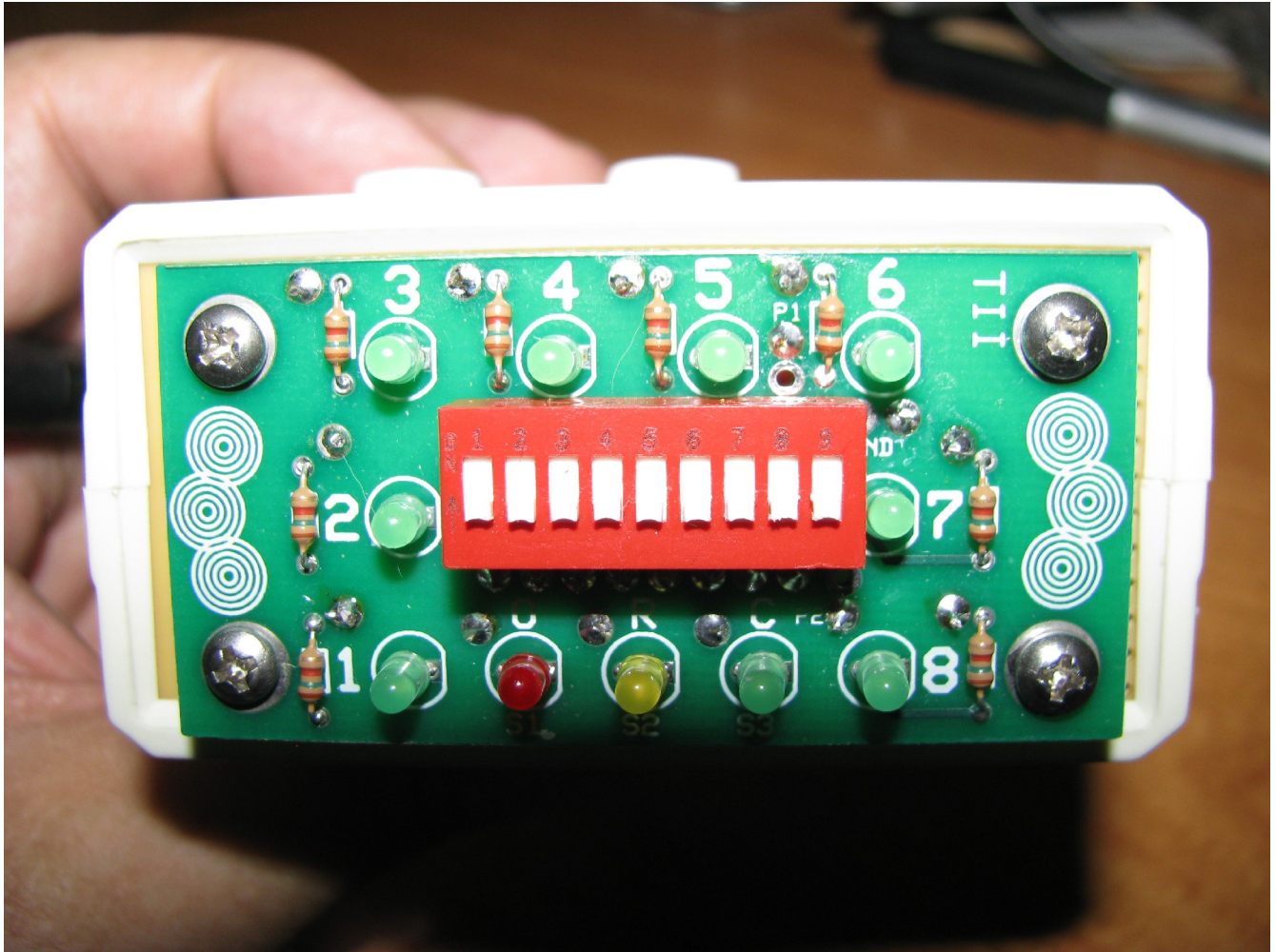
First pic shows the special high gain antenna used with the Synapse RF200PD1 transceiver in the Hand Held RF controller.

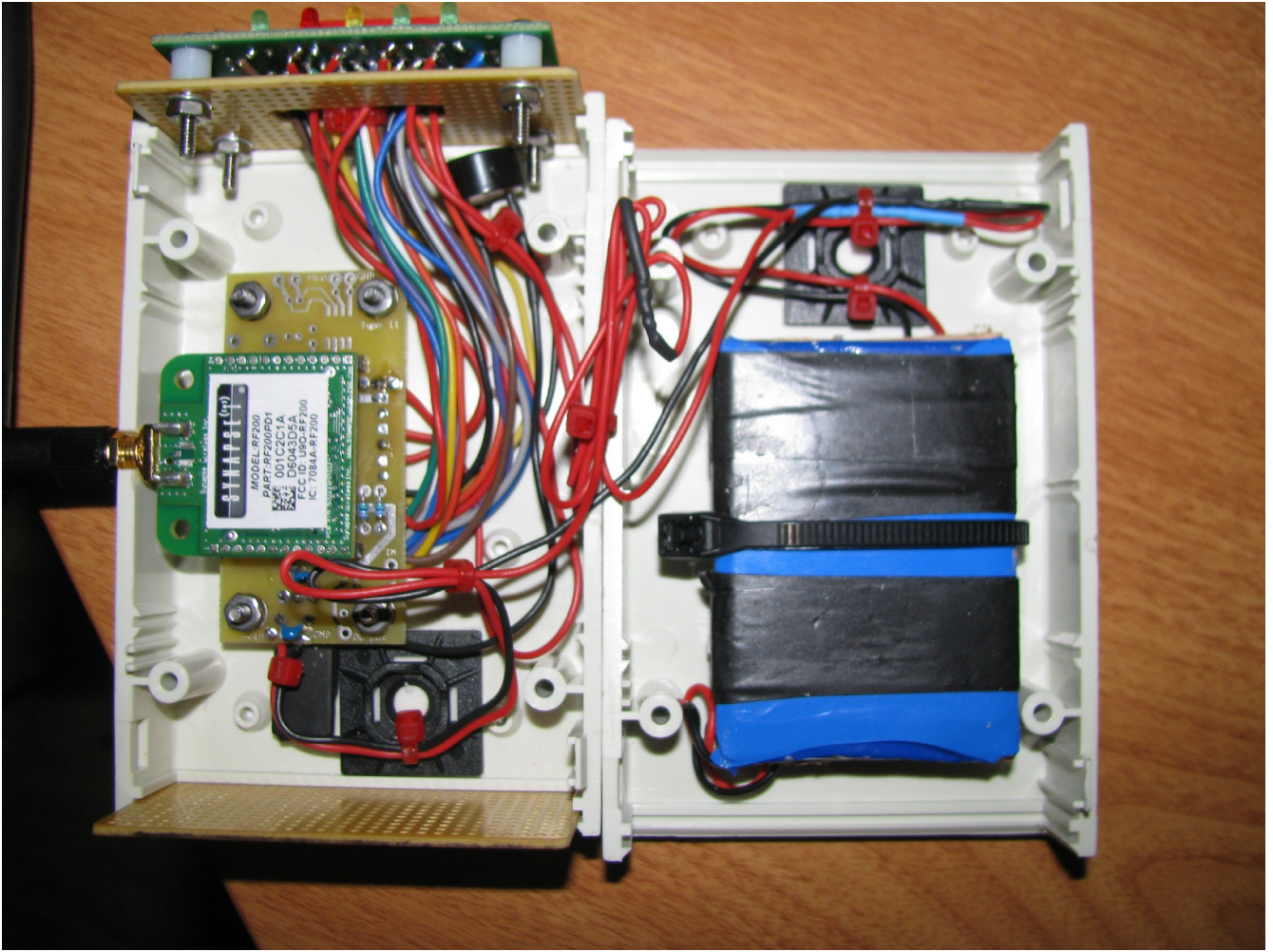
Second pic shows the user interface which provides 100% visual feedback via LEDs when any DIP switch is activated. There are 11 lower power status LEDs and 1 Piezo buzzer which will give about 4 days of standby receive capability using a 2 amp Lipo battery.

Third pic shows the internal wiring which includes the Synapse RF transceiver and USB Lipo charging board (below the 2 amp Lipo blue battery on the right)

The last pic is the schematic for this version of the Hand Held RF Mesh Controller. All GPIO were used up in this RF mesh controller.

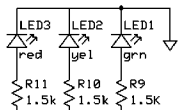






HH Status LEDs

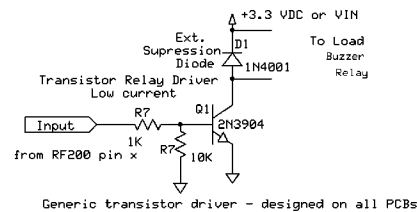
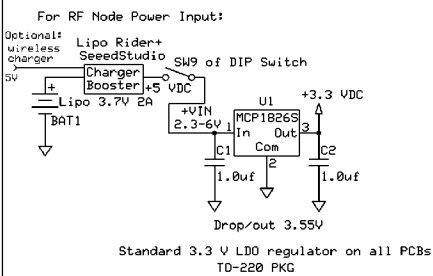
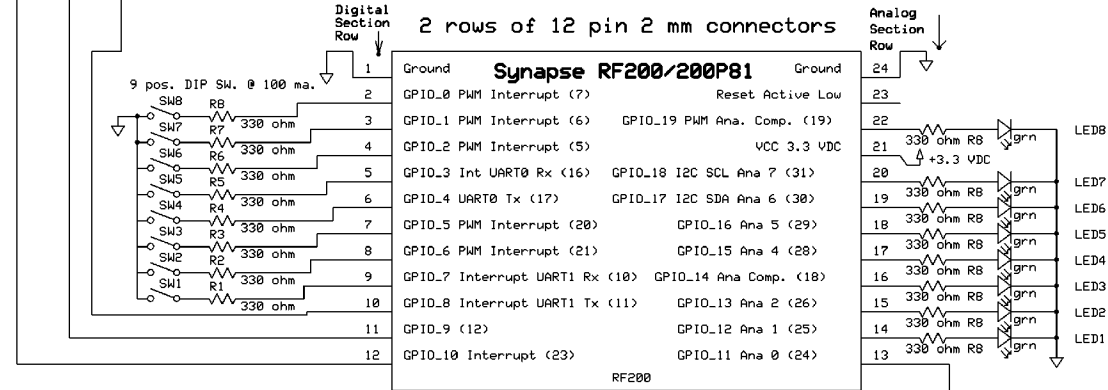
Garage Door Status: red/open grn/close
Yellow LED = Node Heartbeat / Run (Flashes)



Notes:

- A. All 330 ohm resistors are used to protect the RF200 from excess current (10Ma)
- B. 3 PCB carrier boards were constructed from this generic schematic - user application will vary.
- C. All PCB's have the optional precision I2C DS3231M+ RTC - for special applications.
- D. All PCB's have a high current transistor driver
- E. This schematic is beta - subject to change

Hand Held Controller Schematic for Synapse RF200PD1



Hacker Company		
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