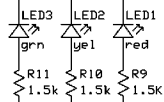


HH Status LEDs

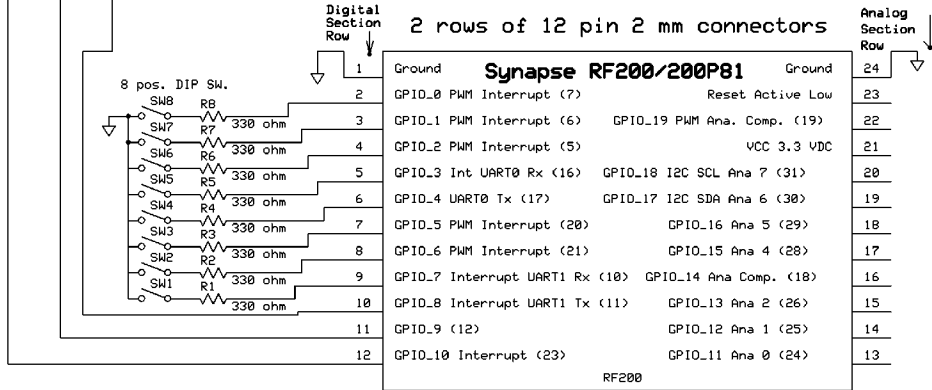
Battery Level: red/bad yel/warning grn/good
 Garage Door Status: red/open grn/close
 RF LG: TBD



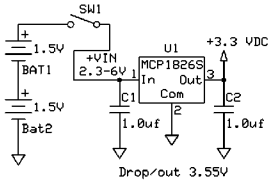
Notes:

- A. All 330 ohm resistors are used to protect the RF200 from excess current (10Ma)
- B. Analogs can be used as digitals - See Synapse User Manual
- C. 3 PCB carrier boards were constructed from this generic schematic - user application will vary.
- D. All PCB's have the optional precision I2C DS3231M+ RTC - for special applications.
- E. All PCB's have a high current transistor driver
- F. This schematic is beta - subject to change
- G. Use silica gel moisture packet to reduce corrosion in outdoor water resistant enclosure.
- H. Warning - 8 position DIP switch is installed on the back of PCB - the numbers are flipped!
- I. All DIP switch inputs have 330 ohm current limits and software pullups.

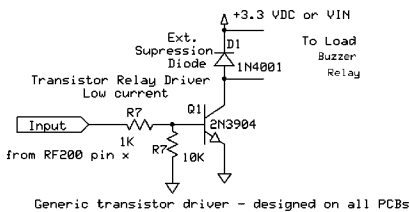
Hand Held Controller Schematic for Synapse RF200



For RF Node Power Input:
 Two AA Alkaline batteries in series with a on/off power slide switch.
 For cold weather use Lithium batteries.



Standard 3.3 V LDO regulator on all PCBs
 TD-220 PKG

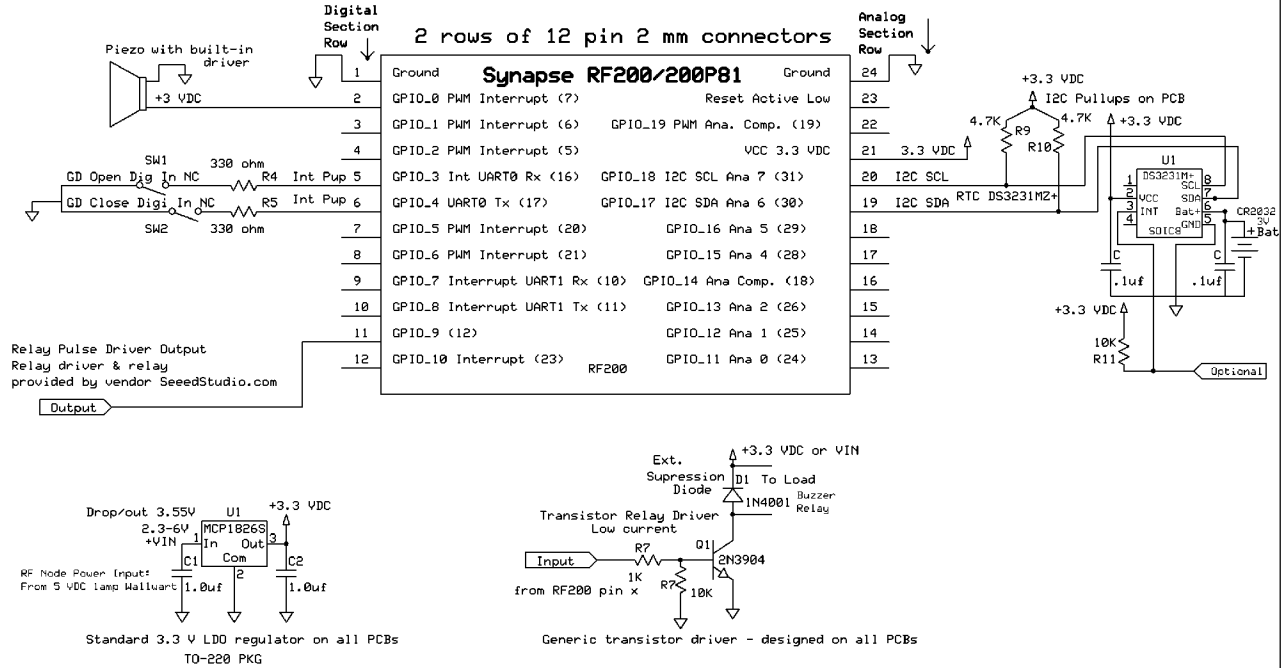


Generic transistor driver - designed on all PCBs

Hacker Company		
Handheld RF200 Mesh Sch R1b		
DuinoMiteMegaAndy	Rev 1.0 5/1/2012	Page # or name

- Notes:**
- A. All 330 ohm resistors are used to protect the RF200 from excess current (10Ma)
 - B. Analogs can be used as digital - See Synapse User Manual
 - C. 3 PCB carrier boards were constructed from this generic schematic - user application will vary.
 - D. All PCB's have the optional precision I2C DS3231M+ RTC - for special applications.
 - E. All PCB's have a high current transistor driver
 - F. This schematic is beta - subject to change
 - G. Precision RTC DS3231M+ is used in this application
 - H. Magnetic industrial NC switch used for close limit.
 - I. Microswitch NC switch used for open limit.

Garage Door Controller Schematic for Synapse RF200

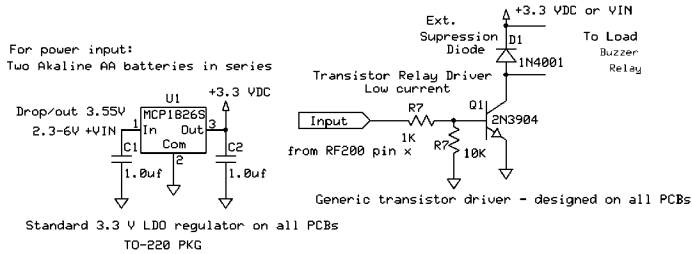
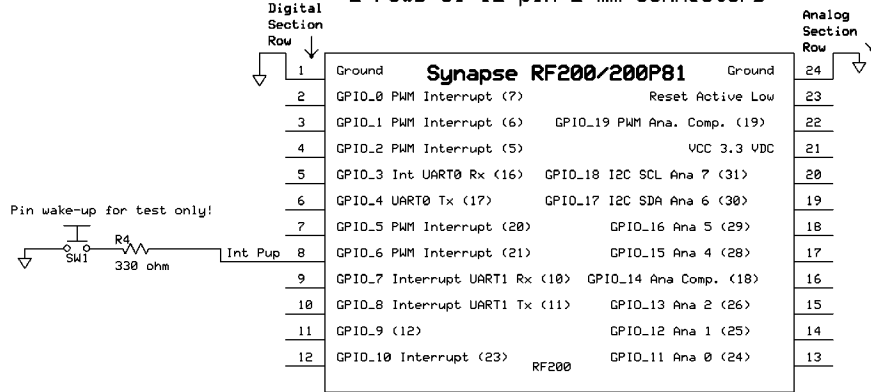


Hacker Company		
Garage Door RF200 Sch R1b		
DuinoMiteMegaAndy	Rev 1.0 5/1/2012	Page # or name

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

Mailbox Schematic for Synapse RF200

2 rows of 12 pin 2 mm connectors



Hacker Company

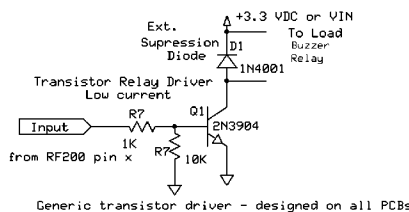
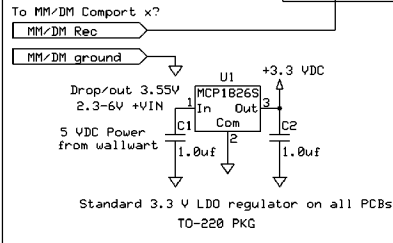
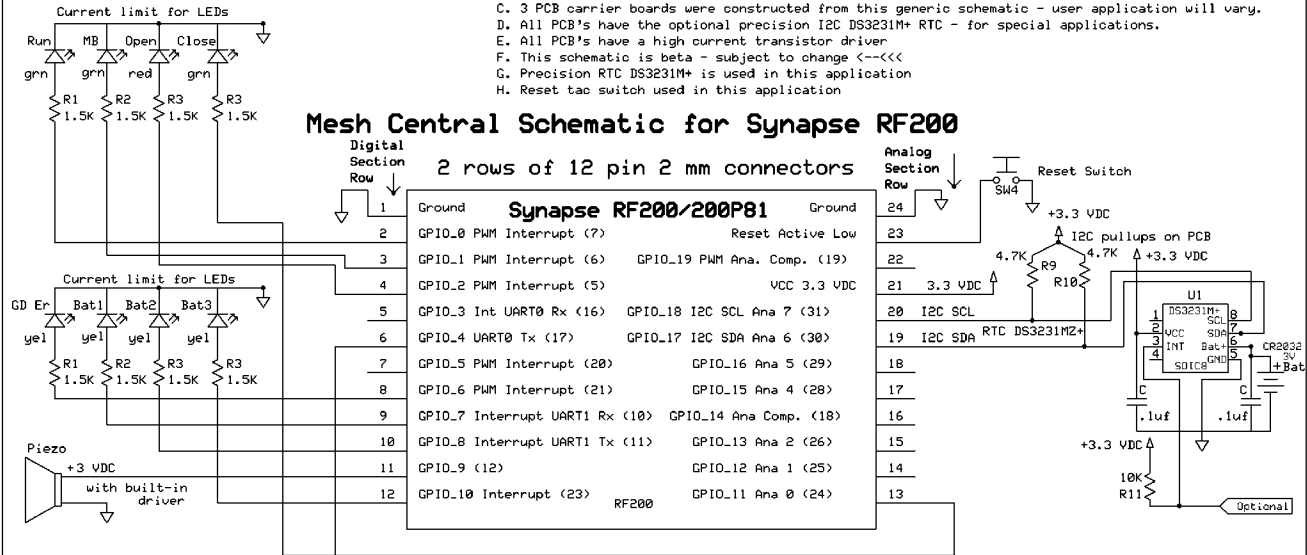
Mailbox RF200 Mesh Sch R1b

DuinoMiteMegaAndy	Rev 1.0 5/1/2012	Page # or name
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- Notes:**
- A. All 330 ohm resistors are used to protect the RF200 from excess current (10Ma)
 - B. Analogs can be used as digital - See Synapse User Manual
 - C. 3 PCB carrier boards were constructed from this generic schematic - user application will vary.
 - D. All PCB's have the optional precision I2C DS3231M+ RTC - for special applications.
 - E. All PCB's have a high current transistor driver
 - F. This schematic is beta - subject to change <-<<<
 - G. Precision RTC DS3231M+ is used in this application
 - H. Reset tac switch used in this application

Mesh Central Schematic for Synapse RF200

2 rows of 12 pin 2 mm connectors



Hacker Company		
Mesh Central RF200 Sch R1b		
DuinoMiteMegaAndy	Rev 1.0 5/1/2012	Page # or name