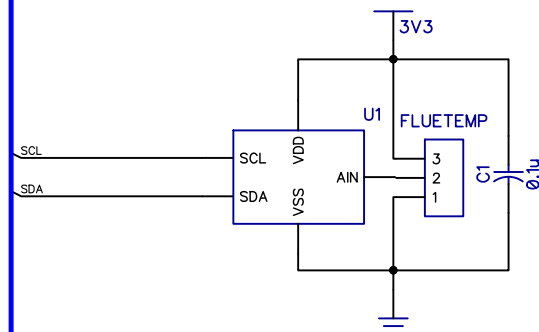
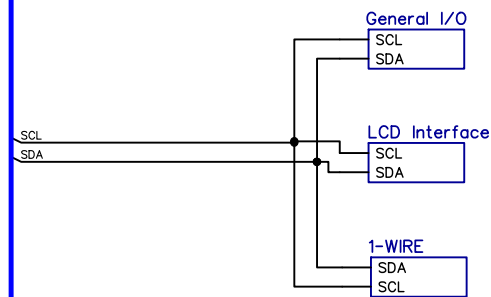
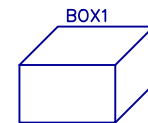
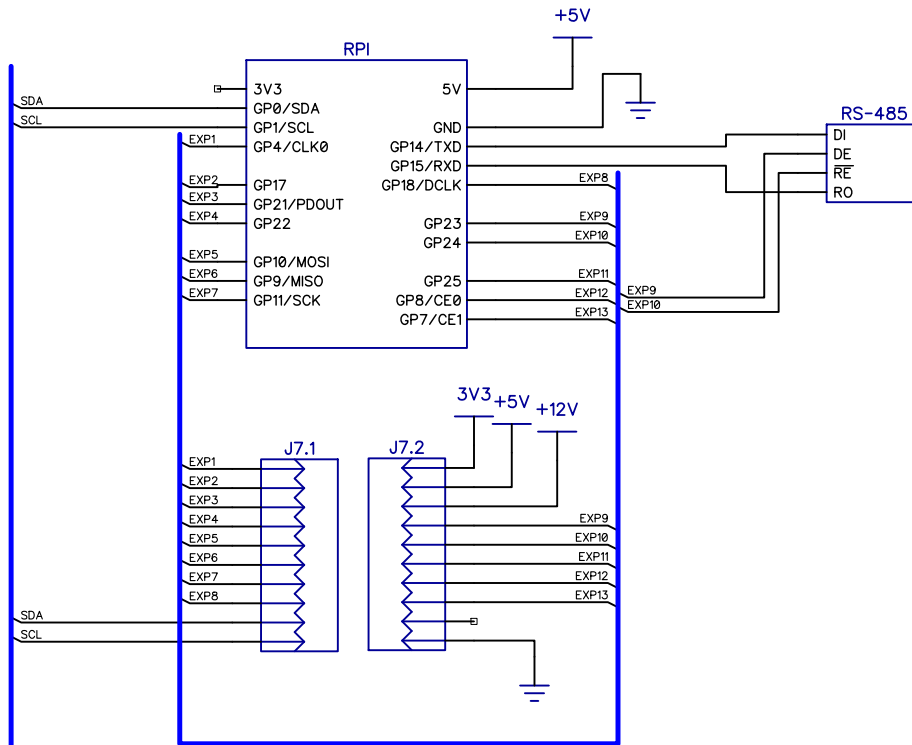
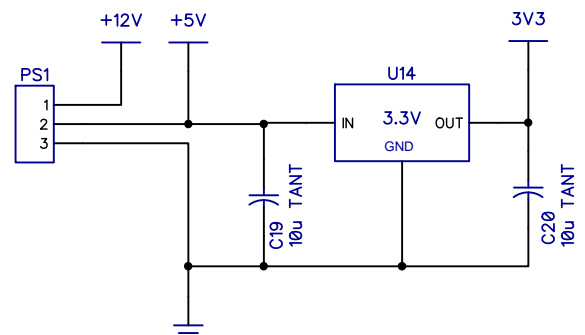


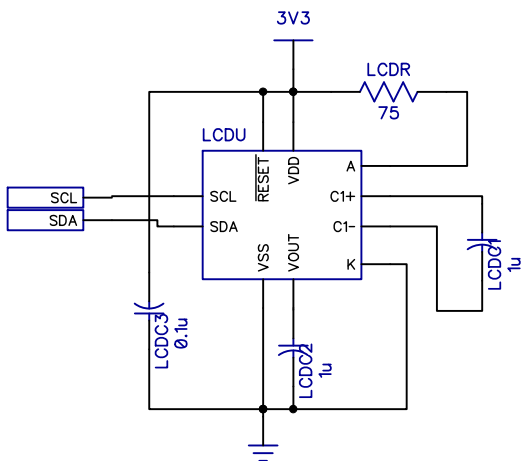
# HotPi Raspberry Pi Main Interface



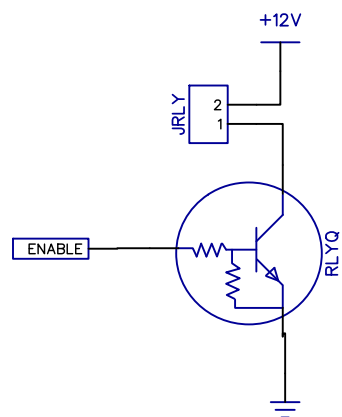
## Power Supply Section



LCD Interface



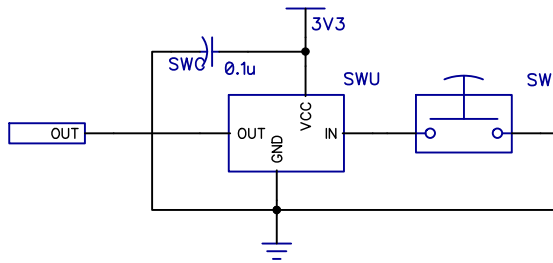
### 3.3V to 12V Relay Driver



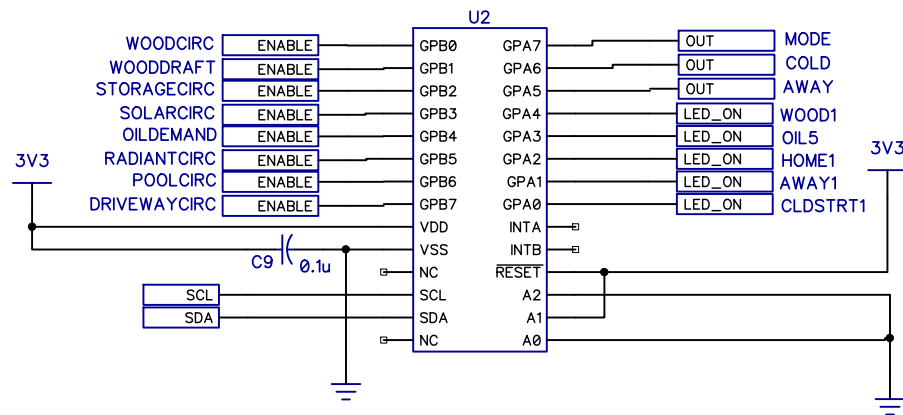
Q1 is a pre-biased NPN to keep parts count low. Status LED was eliminated to minimize power usage. Status is indicated at remote device.

## Switch Debounce

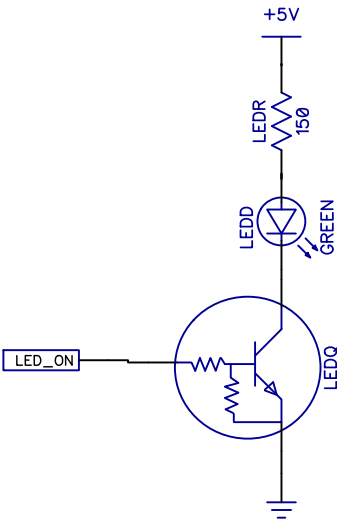
We would normally do this in software, but this chip provides some other advantages in case we ever want to remote-mount the switches, or use them as additional digital I/O input channels.



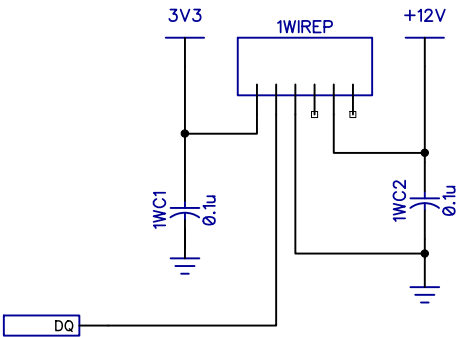
# General I/O Module



LED Driver

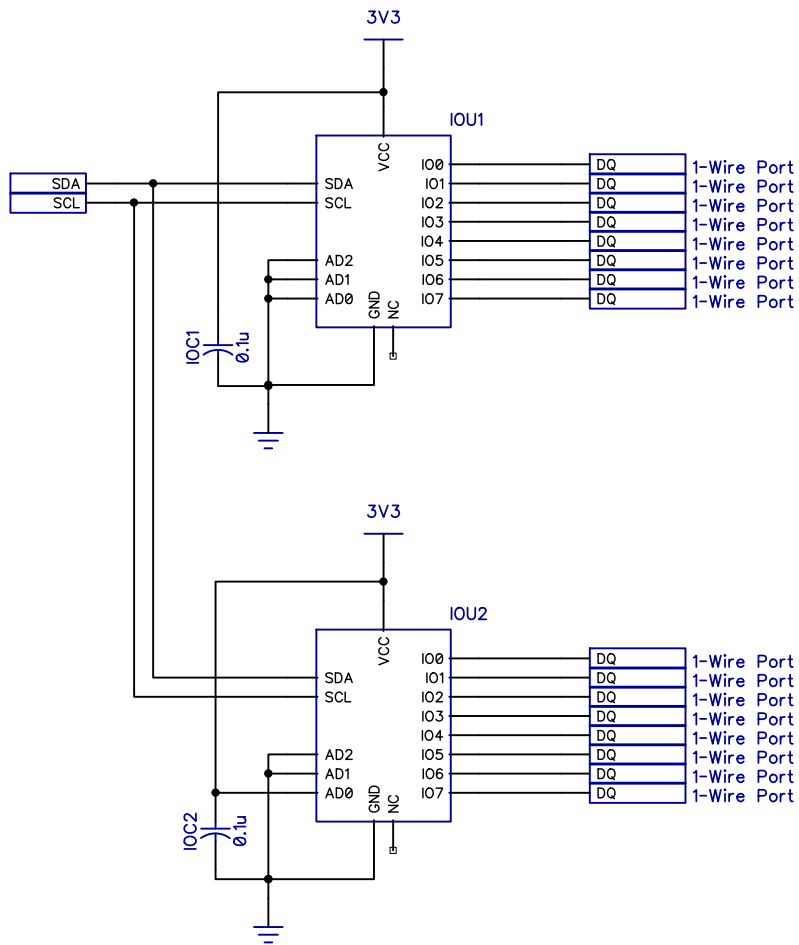


Individual 1-Wire Port



## 1-Wire Sensor I/O Input Section

Recommend DS18B20 and other 1-Wire sensors.  
It is acceptable to daisy-chain from one device  
to the next with splices. Limit each branch to  
100m if possible.





## RS-485 I/O Section

