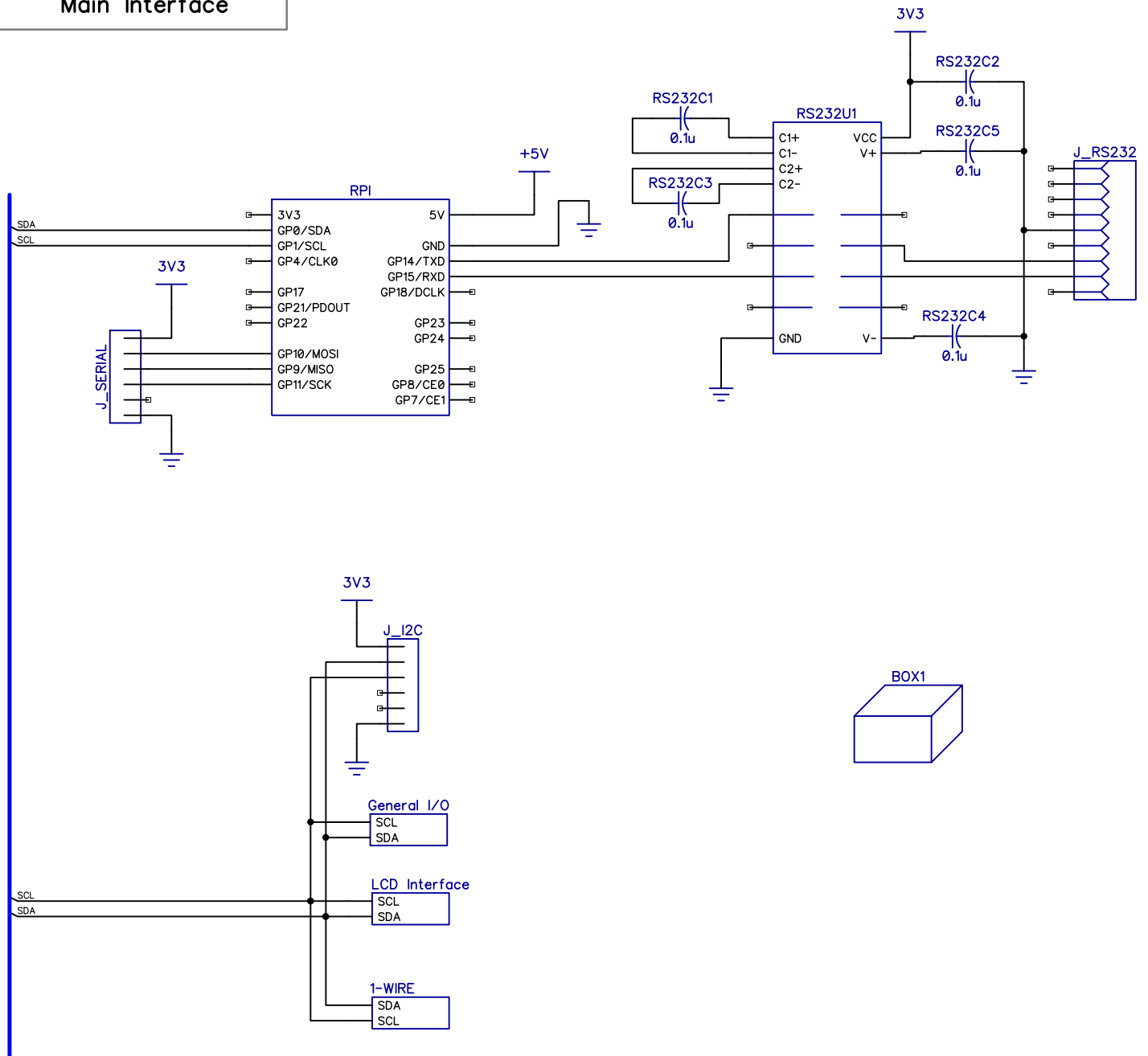
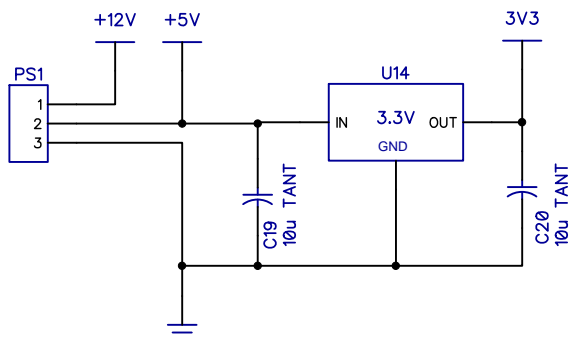


HotPi Raspberry Pi Main Interface

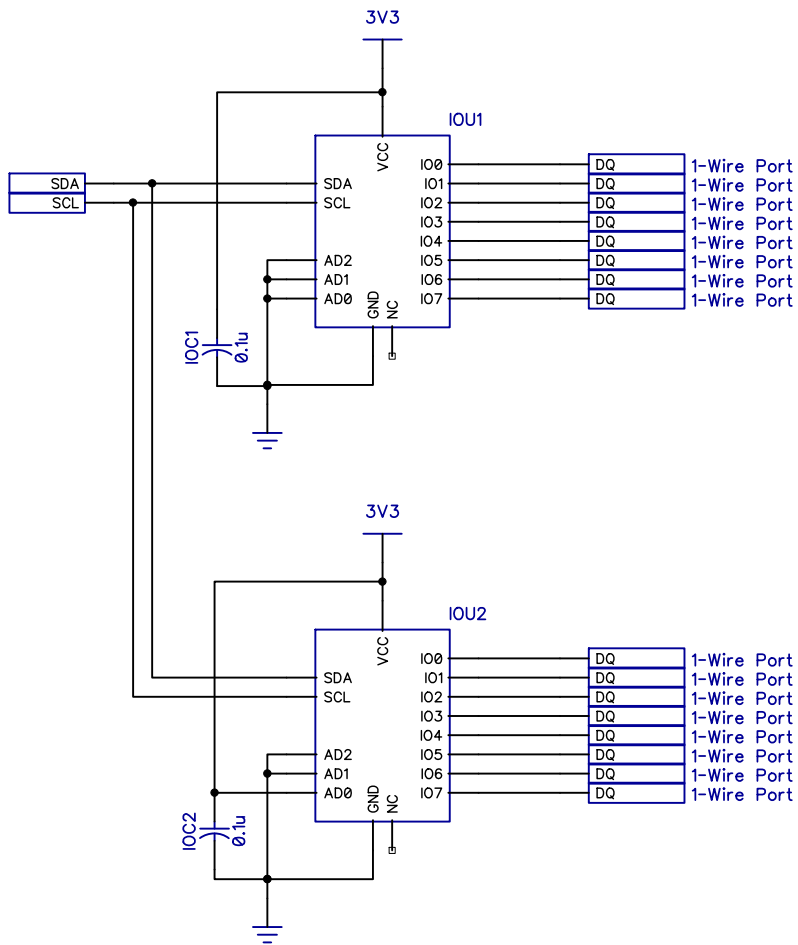


Power Supply Section

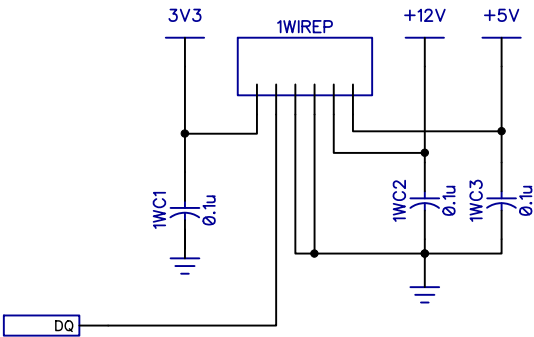


1-Wire Sensor I/O Input Section

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.

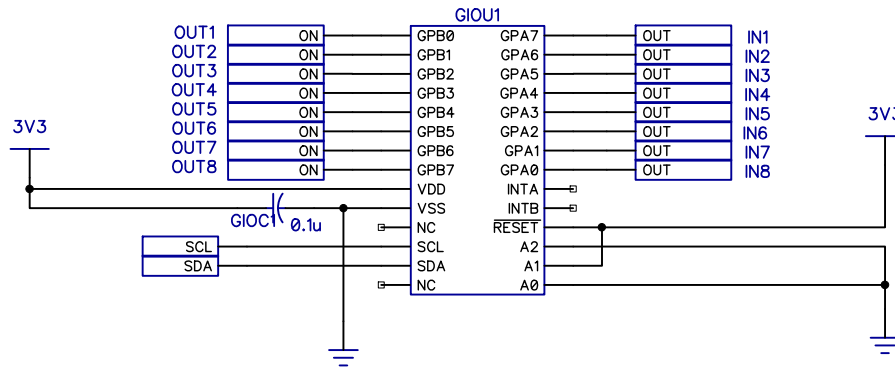


Individual 1-Wire Port



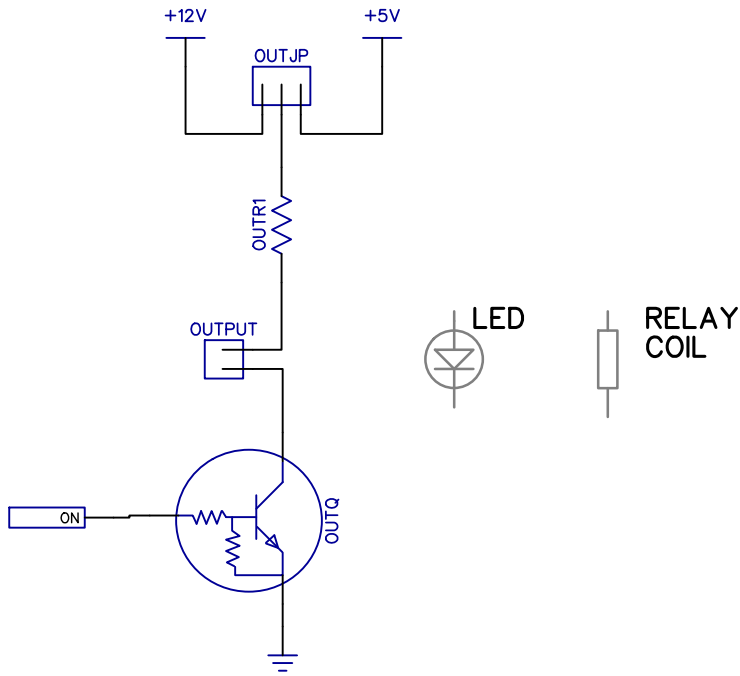
General I/O Module

Two banks of eight I/O channels each. Bank "A" provides additional circuitry for switch/button inputs. Bank "B" provides circuitry for driving LEDs or relays.



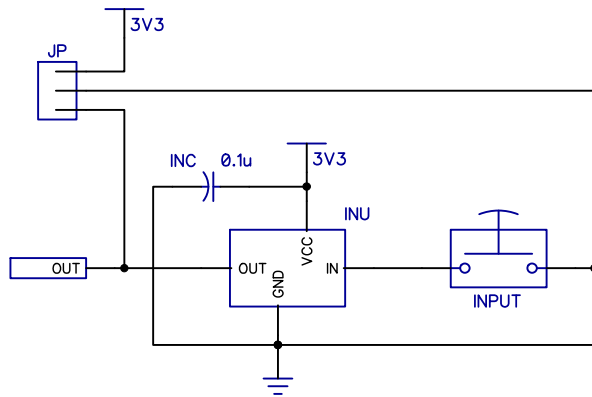
Output Driver

User-selectable D1 and R1 values for flexibility.
Short or jumper JPR to select supply voltage.
May also drive a relay or other device if LEDR1
is jumpered. Limit output current to 50-80mA.
If using relays, use snubber diodes across them.



Input Driver w/ Switch Debounce

Hardware debounce circuit provides some advantages over software. Can also leave SWU/SWC unpopulated and use JP for a direction connection to an external device. Watch your input currents!



LCD Interface

Optional LCD interface. Designed for the NHD-C0220BiZ 2x20 LED-backlight unit, but may be able to control others as well.

