

## Microcontroller

Pins in **BOLD** are interrupt-capable and will not collide with one another

### Interrupt Allocation

INT0 - PB0 - RTN\_EN1  
INT1 - PB0 - RTN\_EN2  
INT2 - PB0 - RTN\_EN2  
INT3 -  
INT4 -  
INT5 - PC0 - KILL  
INT6 -  
INT7 - PB0 - RTN\_EN1  
INT8 - PC0 - Y-MAX  
INT9 - PC0 - Z-MIN  
INT10 - PC0 - Z-MAX  
INT11 - PB12 - X-MIN  
INT12 - PB12 - X-MAX  
INT13 - PB13 - X-MAX  
INT14 -  
INT15 - PB15 - Y-MIN

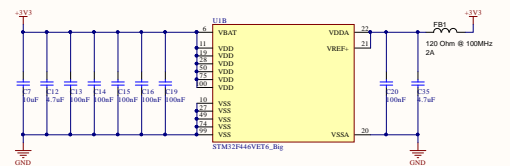
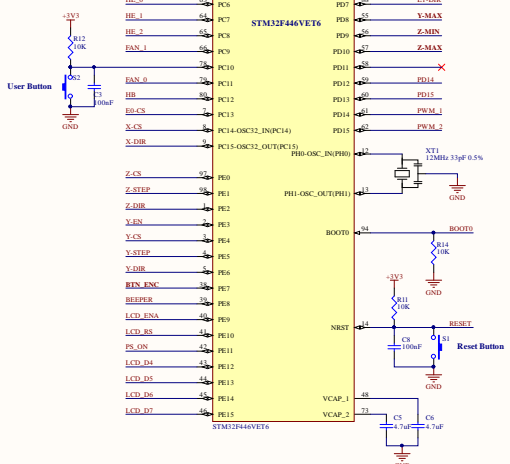
### ADC Allocation

THERM0 - ADC12\_IN03  
THERM1 - ADC12\_IN02  
THERM2 - ADC12\_IN01  
THERM3 - ADC12\_IN00  
A0 - ADC12\_IN04  
A10 - ADC12\_IN03

### Reserved Pins

The following pins initiate to alternate functions with pull-up/pull-down on reset, and should be avoided as GPIO if possible.

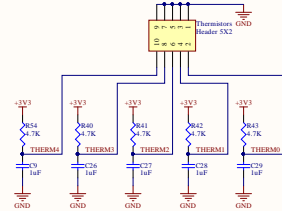
Pin - Reset Behavior  
PA15 - pull-up  
PA14 - pull-down  
PA13 - pull-up  
PB4 - pull-up  
PB3 - floating



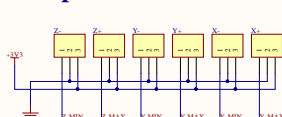
Aus3D  
GPLv3  
aus3d.com.au/rumba32  
github.com/Aus3D/RUMBA32

Original RUMBA design by RepRapDiscount  
Updated to RUMBA+ by Chris Barr for Aus3D  
See the GitHub page for changelist  
Date: 17/08/2018 REV: 1.0A

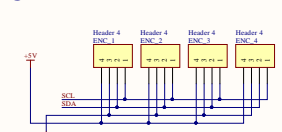
## Thermistors



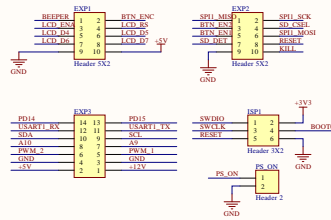
## Endstops



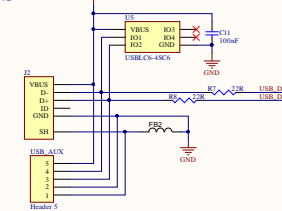
## I2C



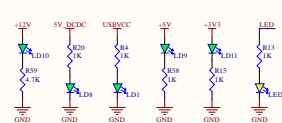
## Auxiliary IO



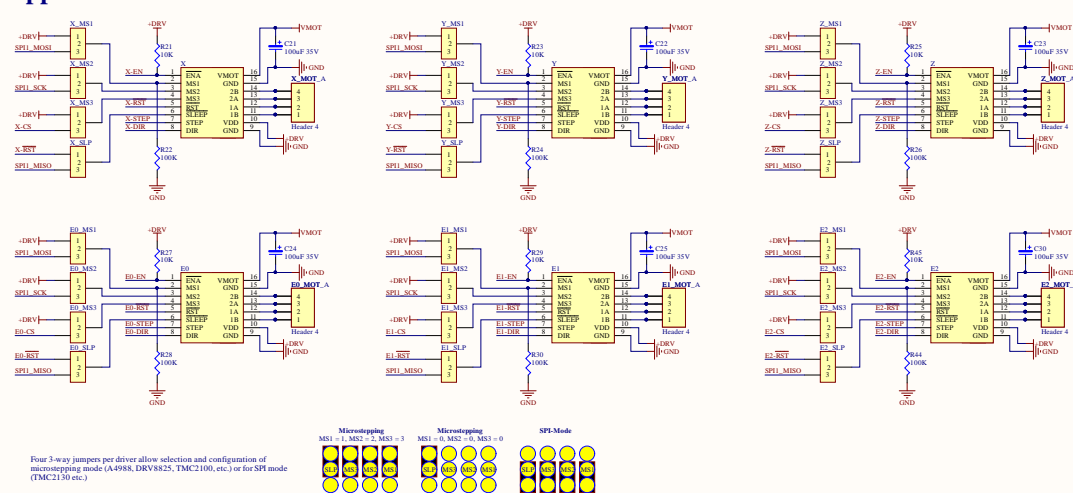
## USB



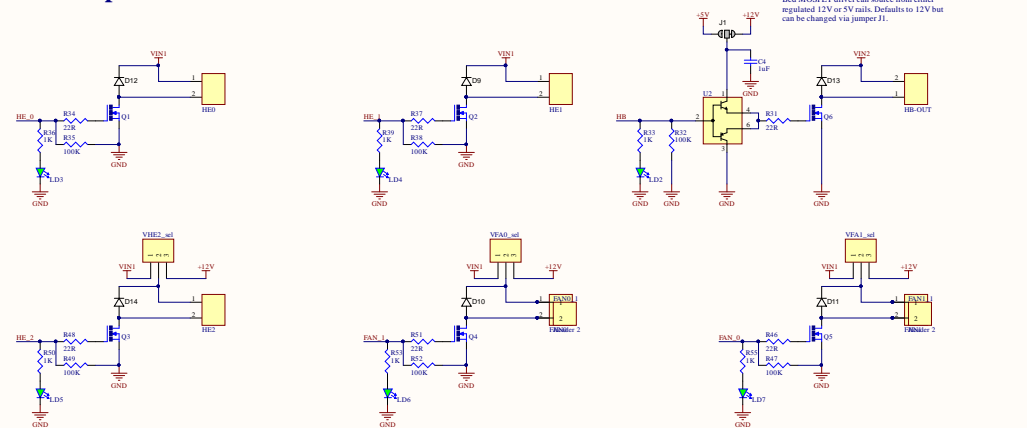
## LEDs



## Stepper Drivers



## MOSFET Outputs



## Power

