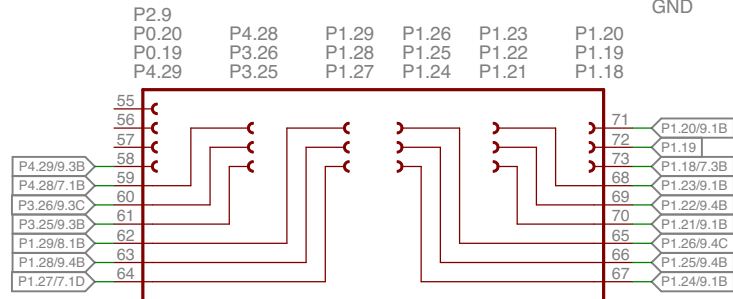
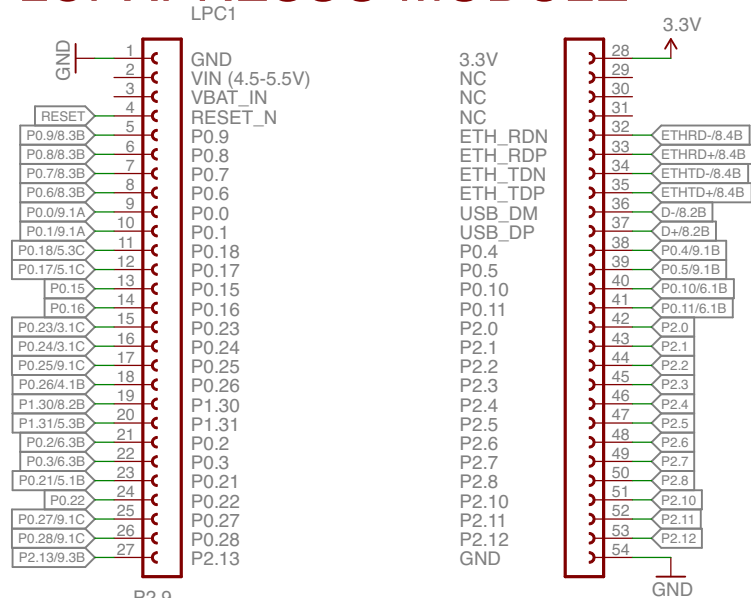
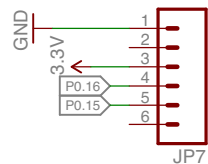


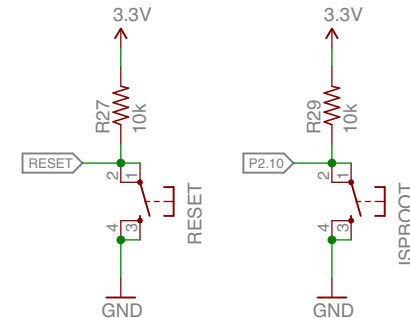
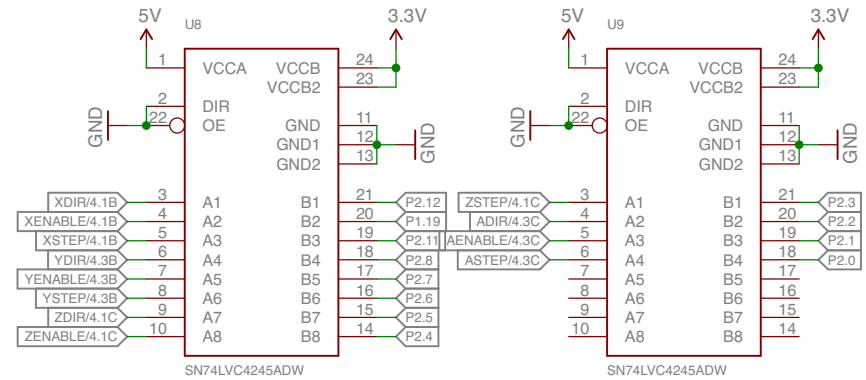
# LCPXPRESSO MODULE



## Debug UART



## 3.3v -> 5v Level Shifters



TITLE: hoektronics-cnc-controller

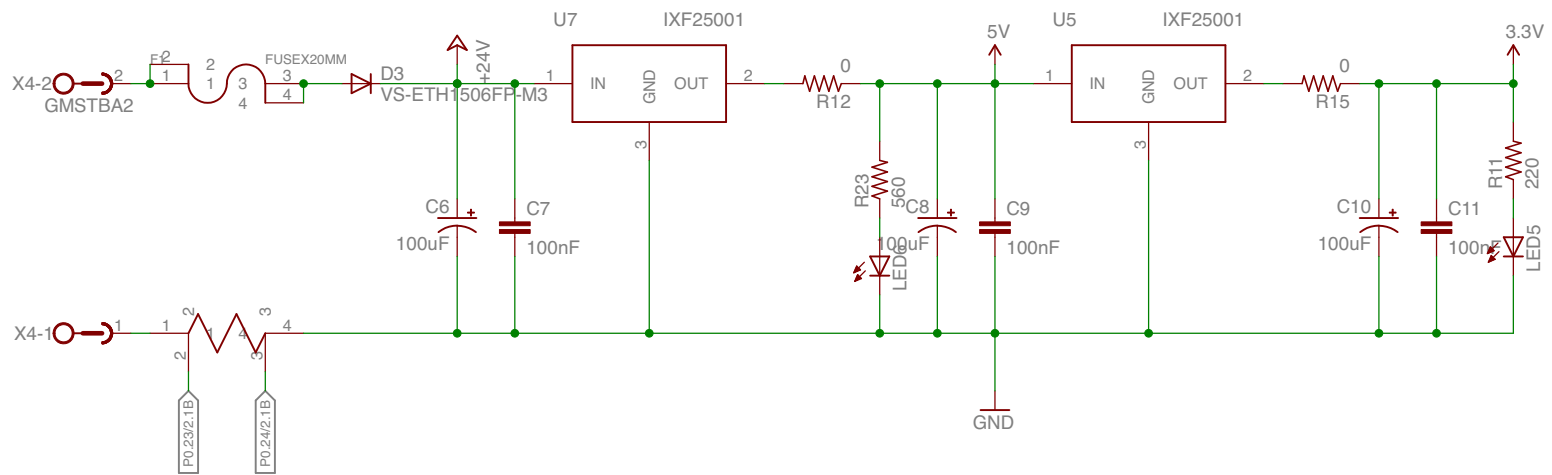
Document Number:

REV:

Date: 8/18/12 11:56 PM

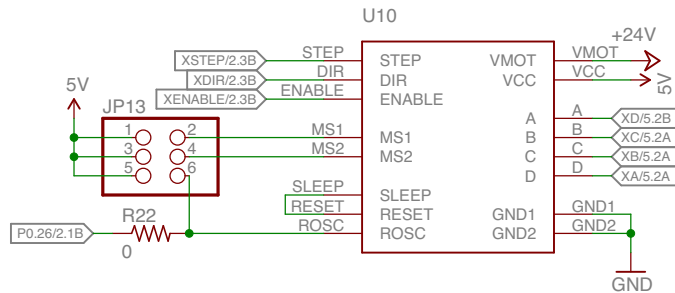
Sheet: 2/9

# POWER SUPPLY

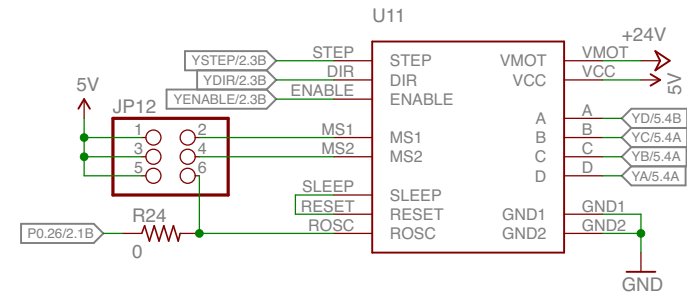


|                                   |            |
|-----------------------------------|------------|
| TITLE: hoektronics-cnc-controller |            |
| Document Number:                  | REV:       |
| Date: 8/18/12 11:56 PM            | Sheet: 3/9 |

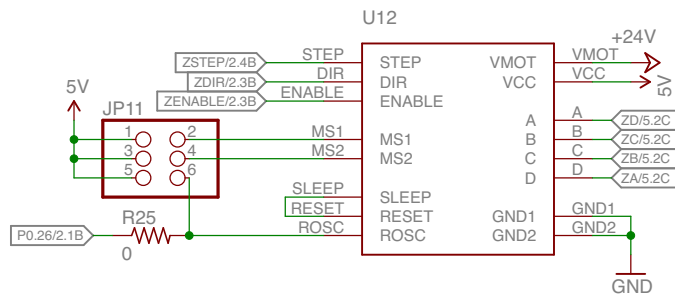
## X AXIS - HoekStep17



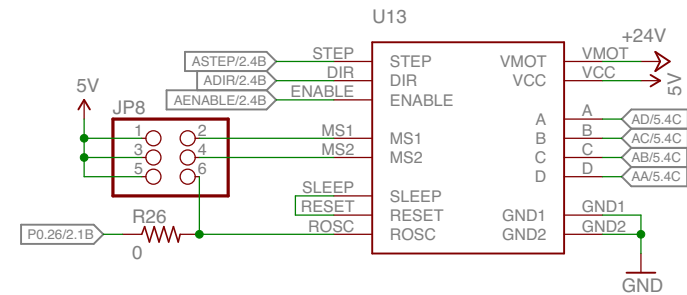
## Y AXIS - HoekStep17



## Z AXIS - HoekStep17



## A AXIS - HoekStep17



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Document Number:

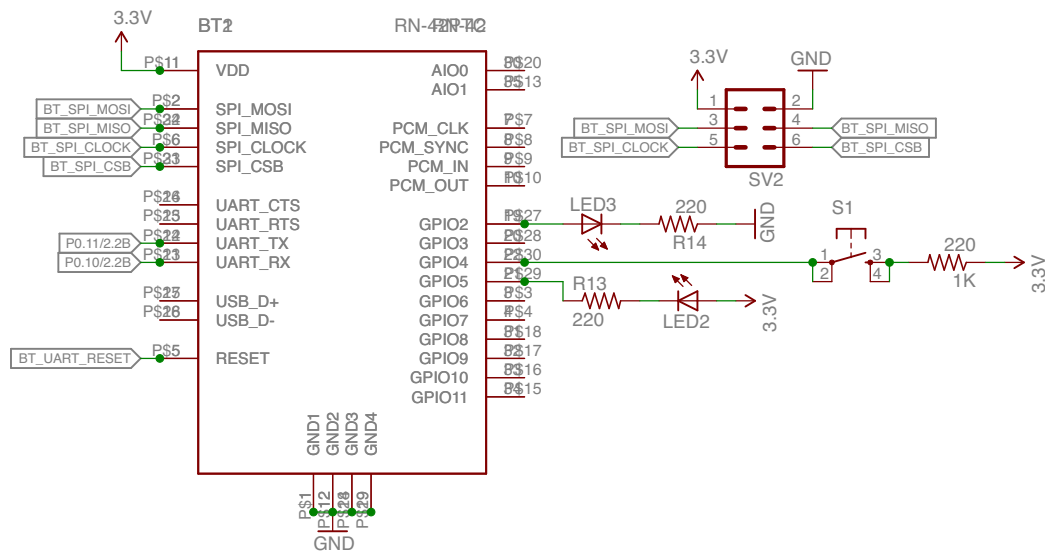
REV:

Date: 8/18/12 11:56 PM

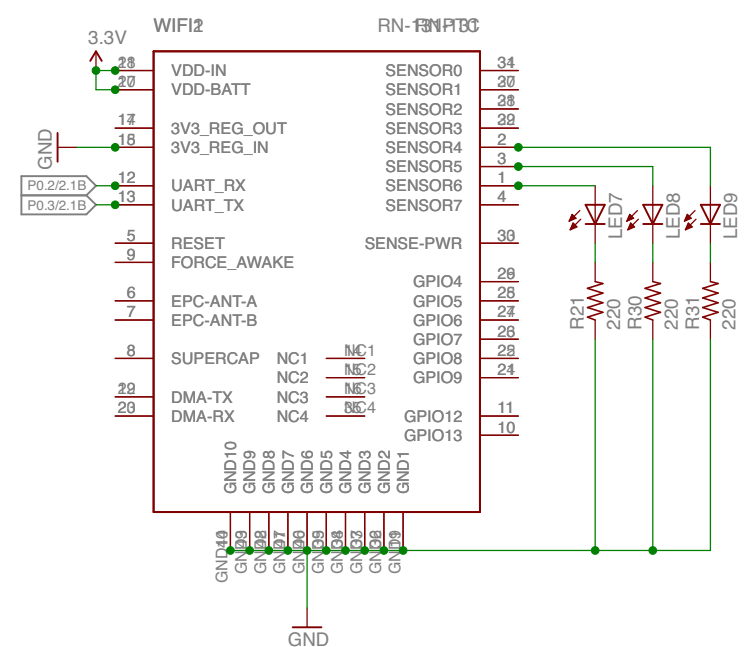
Sheet: 4/9



# Bluetooth Module



## WiFi Module



|                                   |
|-----------------------------------|
| TITLE: hoektronics-cnc-controller |
|-----------------------------------|

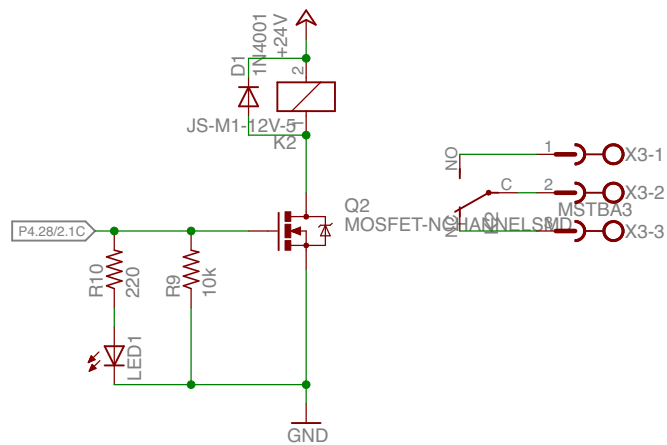
Document Number:

REV:

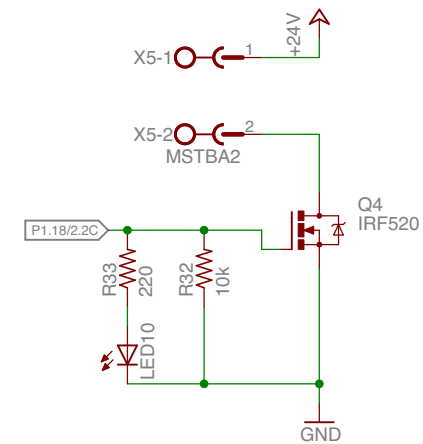
Date: 8/18/12 11:56 PM

Sheet: 6/9

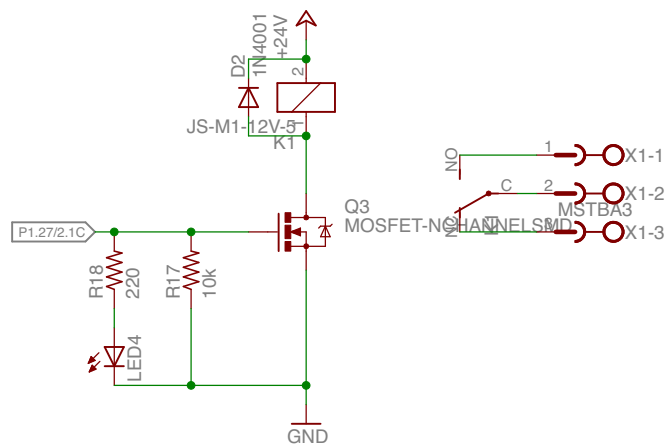
## Vacuum Relay Circuit



## PWM Driver



## Spindle Relay Circuit



TITLE: hoektronics-cnc-controller

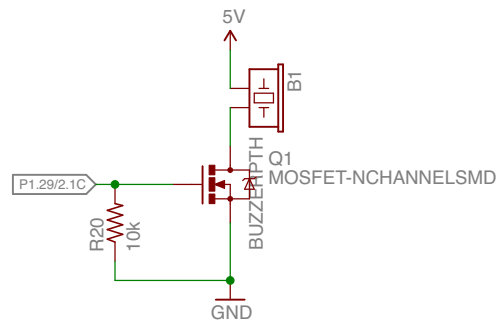
Document Number:

REV:

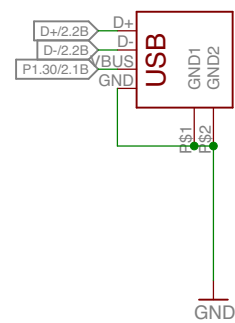
Date: 8/18/12 11:56 PM

Sheet: 7/9

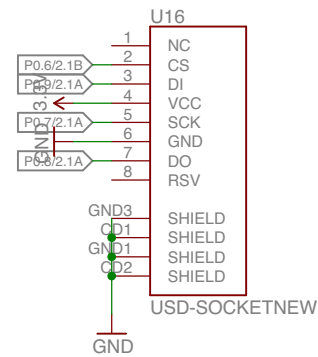
## Buzzer



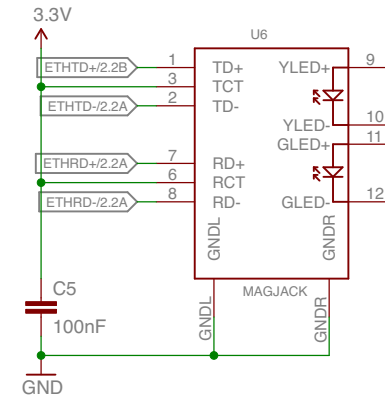
## USB



## microSD



## Ethernet



TITLE: hoektronics-cnc-controller

Document Number:

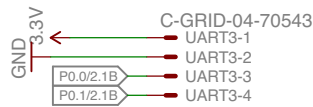
REV:

Date: 8/18/12 11:56 PM

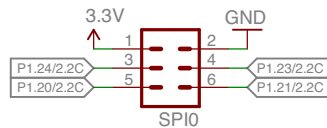
Sheet: 8/9



## User Serial



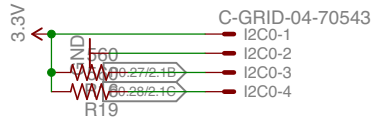
## User SPI



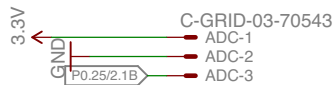
## User CAN



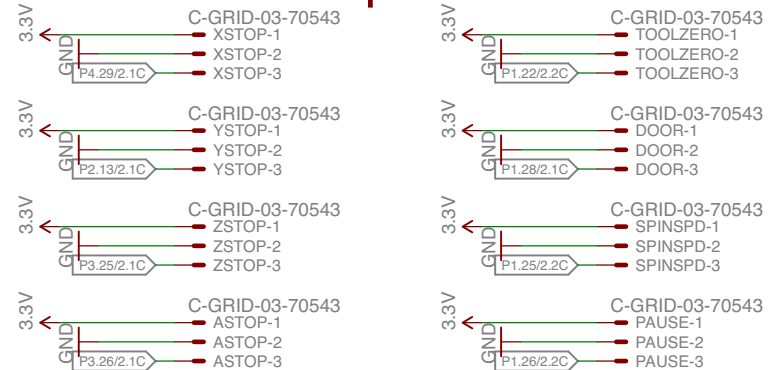
## User i2c



## User ADC



## Various Endstops / Switches



TITLE: hoektronics-cnc-controller

Document Number:

REV:

Date: 8/18/12 11:56 PM

Sheet: 9/9