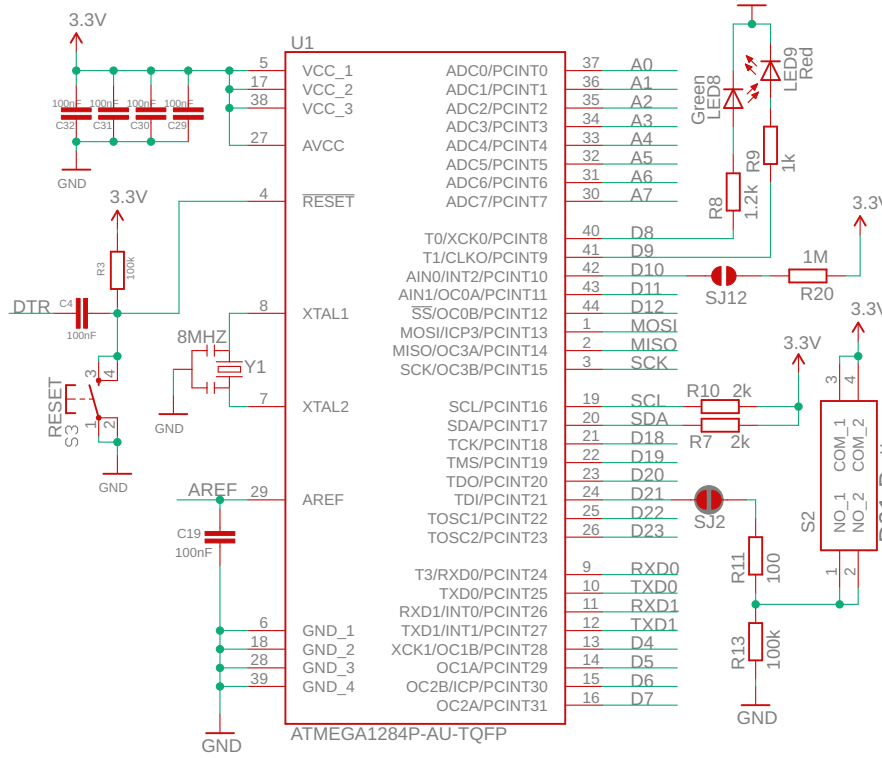
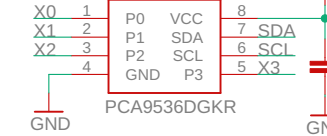


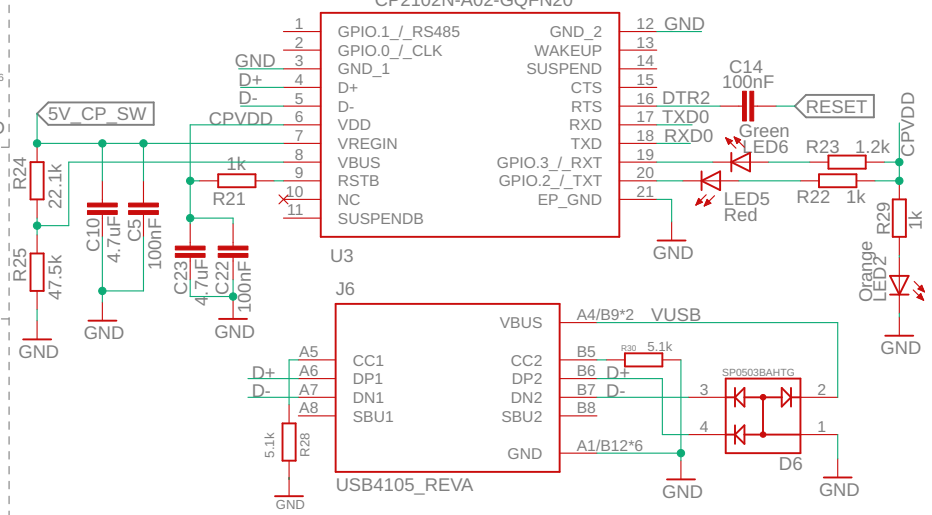
ATMEGA1284P



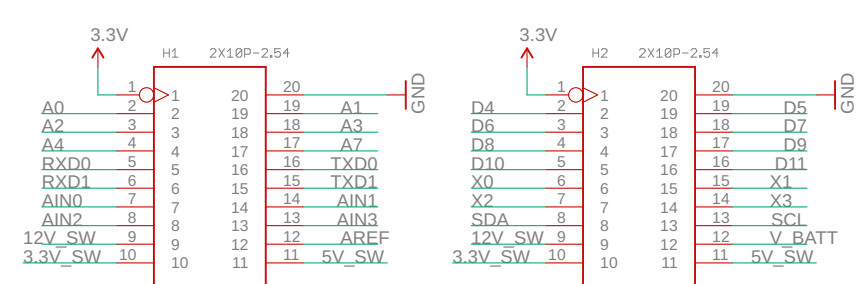
I2C Port Expander



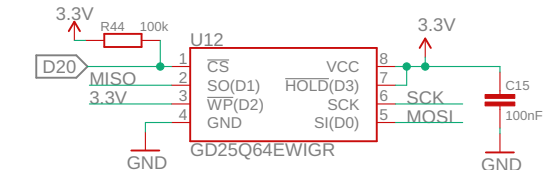
USB



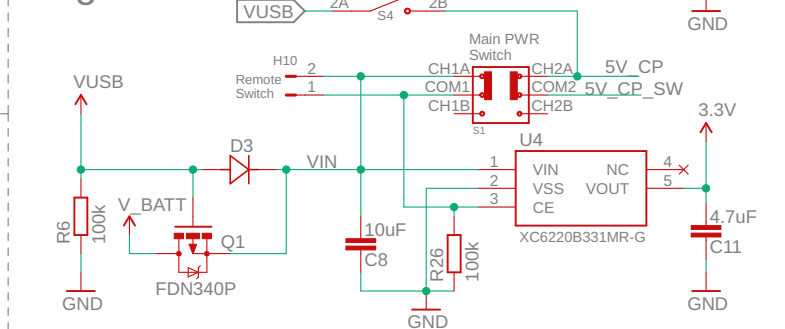
2x10 Headers



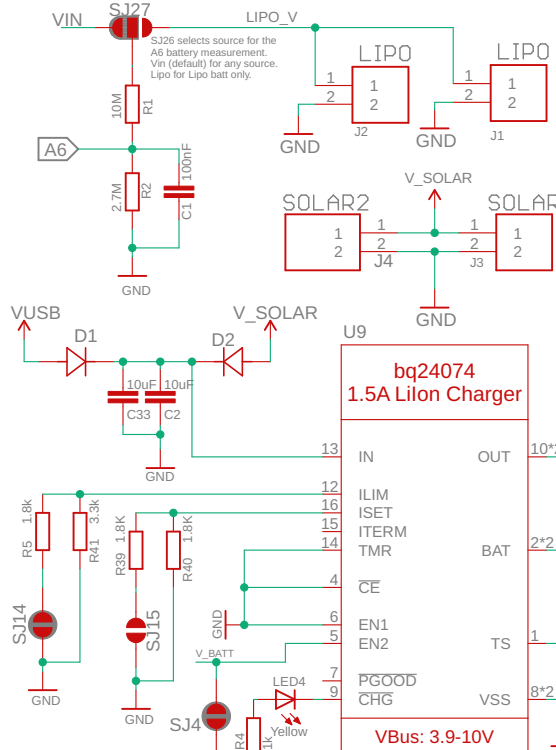
Flash memory



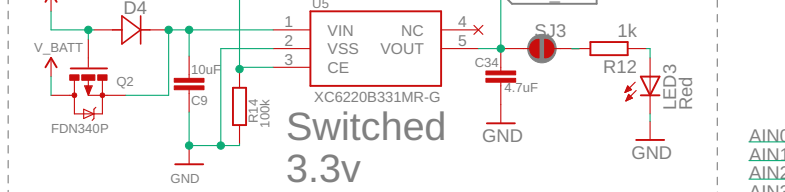
3.3v Main Regulator



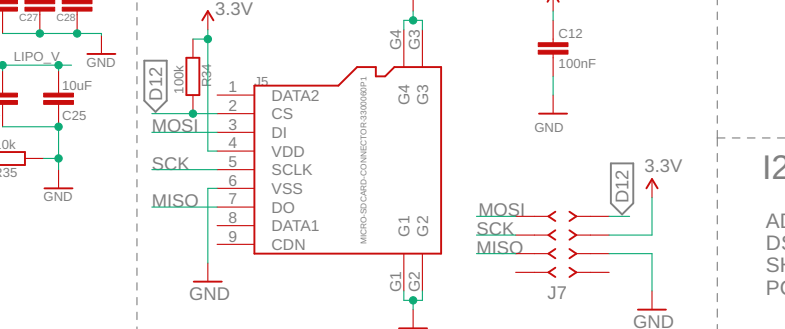
Lipo Charger and JST



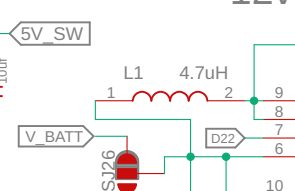
Switched 3.3v



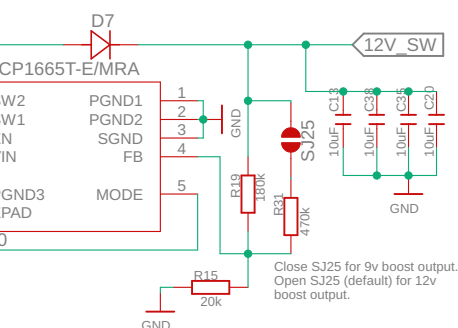
µSD Card



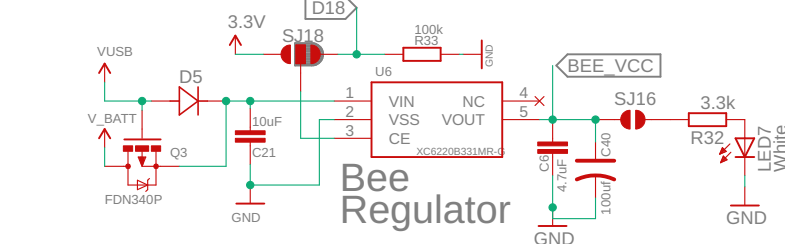
5v Boost



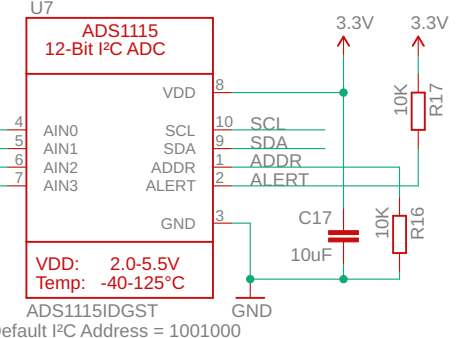
Switched 12v



Bee Regulator



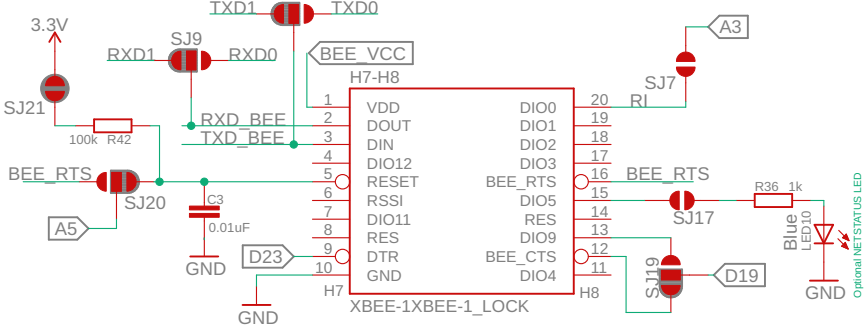
Auxiliary ADC



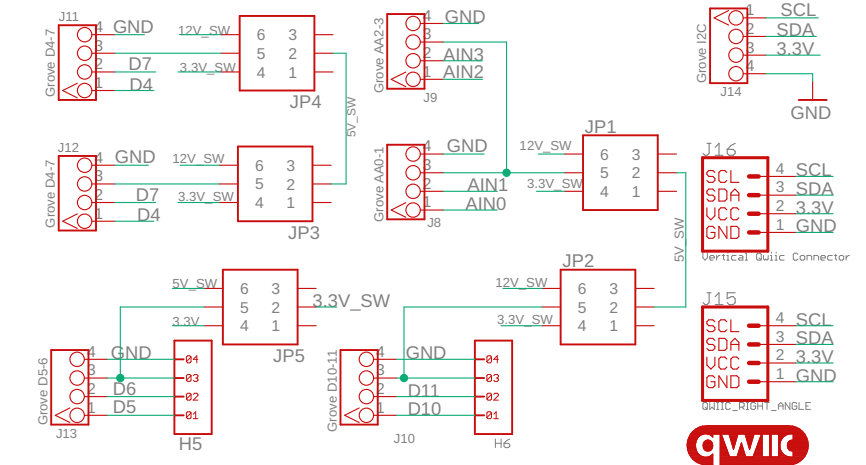
I2C addresses

ADS1115 ADC: 0x48
 DS3231 RTC: 0x68
 SHT40 H/T sensor: 0x44
 PCA9536 IO expander: 0x41

Bee



Grove & Qwiic



Solder jumper information

SJ1: RTC SQW/INT to A7 or D10
 SJ2: D21 button enable
 SJ3: LED3 enable (SW power out)
 SJ4: LED4 enable (charge)
 SJ7: Bee RI to A3
 SJ8: Bee TXD0/TXD1
 SJ9: Bee RXD0/RXD1
 SJ12: D10 pullup enable
 SJ14: Charge input current limit
 SJ15: Charge rate select
 SJ16: Bee power LED enable

SJ17: Bee network status LED
 SJ18: Bee regulator control - D18 or 3.3v
 SJ19: D19 to Bee pin 12 or 13
 SJ20: A5 to Bee Reset or Bee RTS
 SJ21: Bee Reset pullup
 SJ22: H/T sensor enable
 SJ23: Analog light sensor enable
 SJ24: A4 to analog light sensor
 SJ25: Boost regulator: 12v or 9v
 SJ26: 12Boost input select
 SJ27: Battery measurement select

Onboard Sensors

