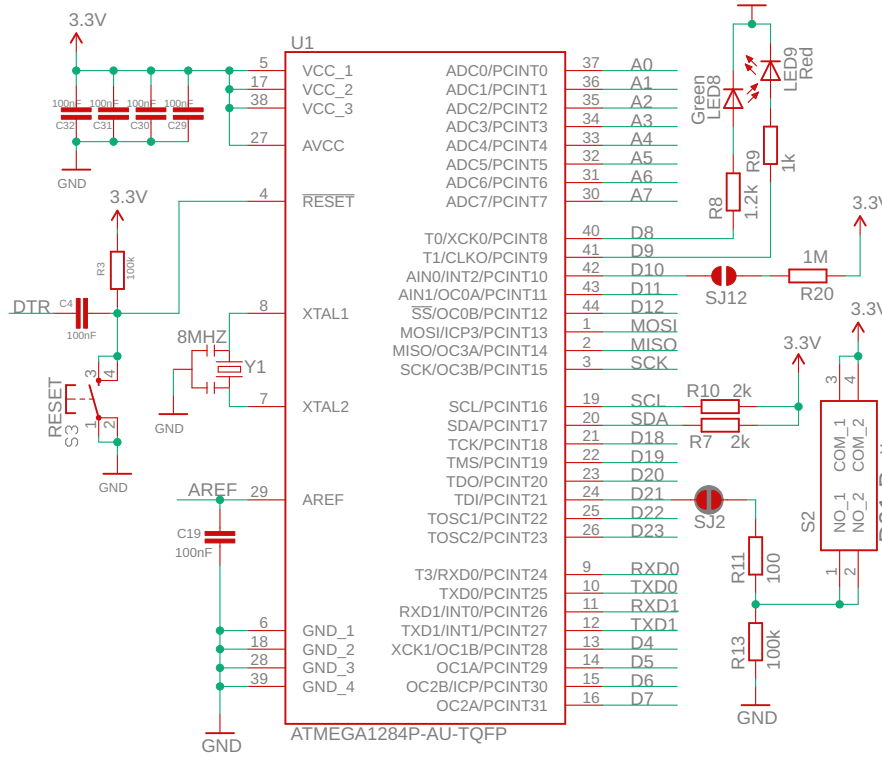
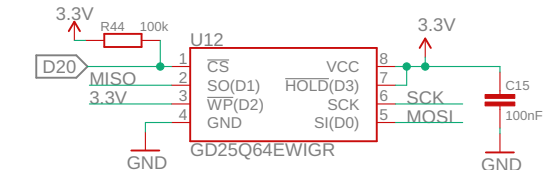


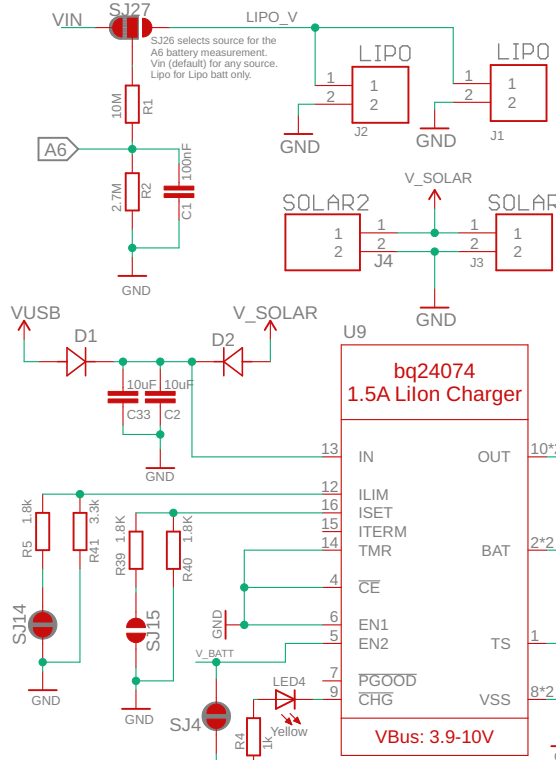
ATMEGA1284P



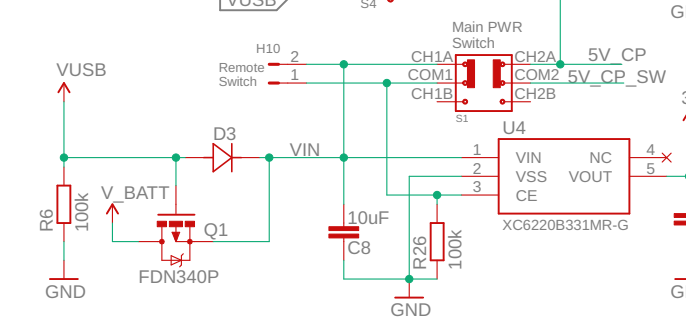
Flash memory



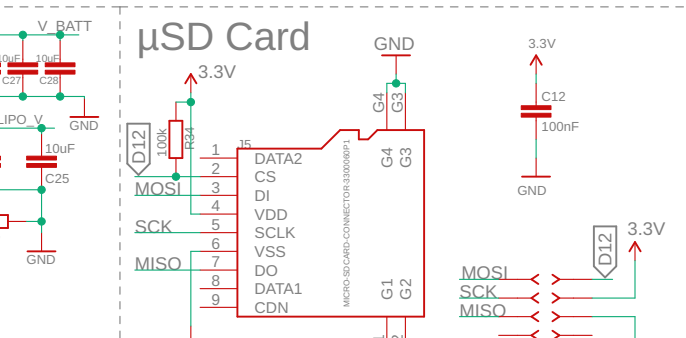
Lipo Charger and JST



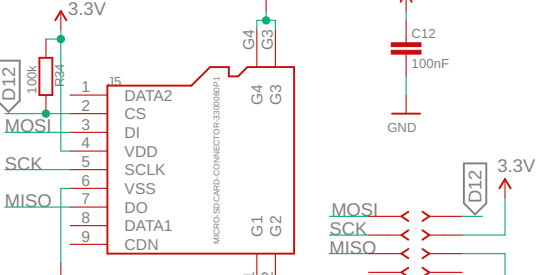
3.3v Main Regulator



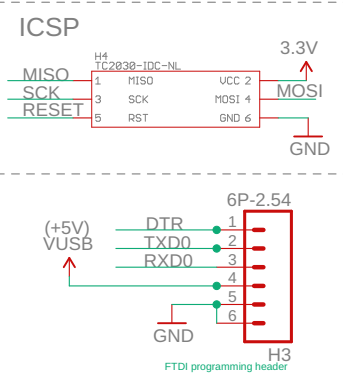
Switched 3.3v



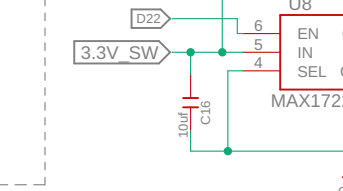
µSD Card



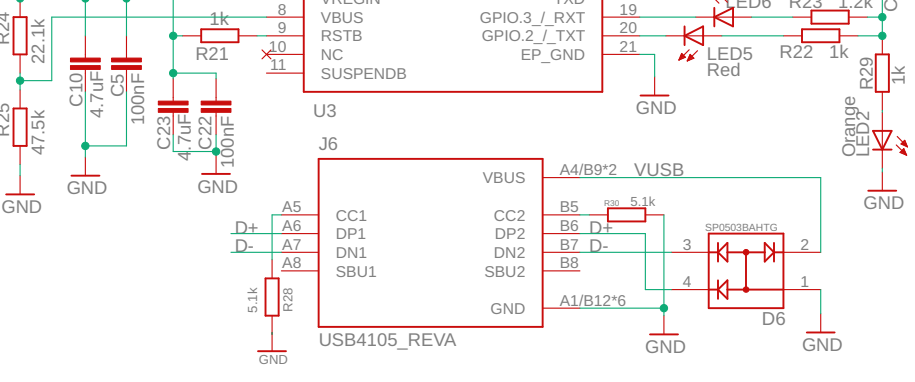
I2C Port Expander



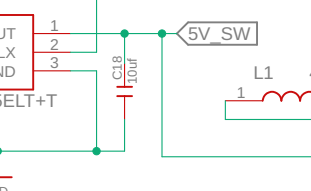
5v Boost



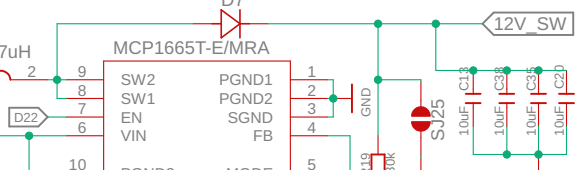
USB



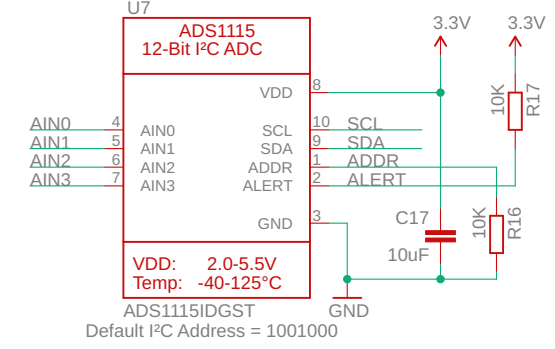
5v Boost



Switched 12v



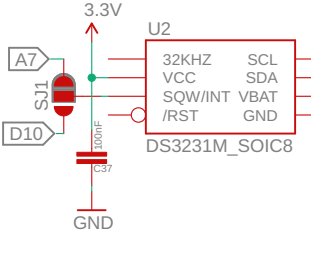
Auxiliary ADC



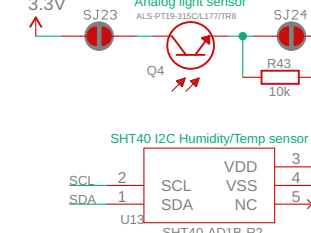
I2C addresses

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

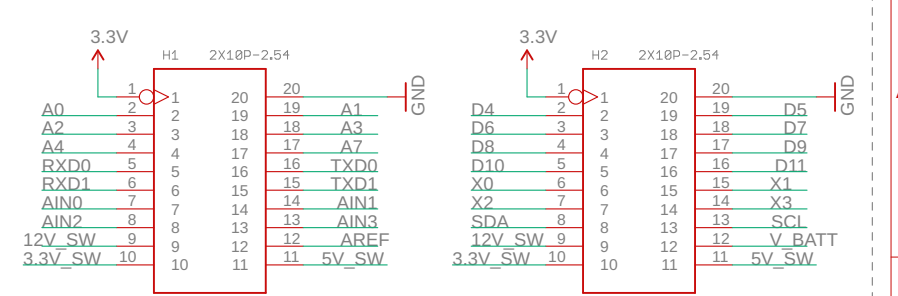
RTC



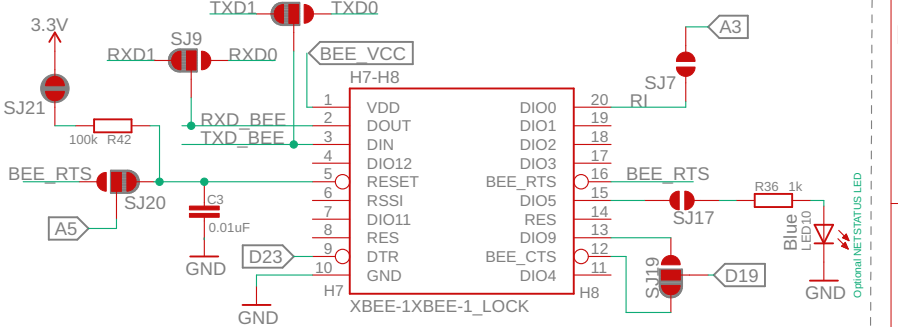
Onboard Sensors



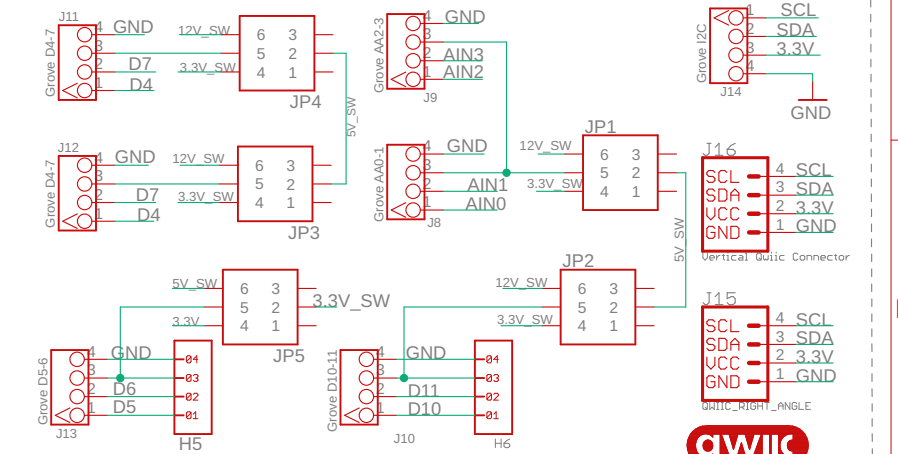
2x10 Headers



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: Boost regulator: 12v or 9v
 SJ27: Battery measurement select