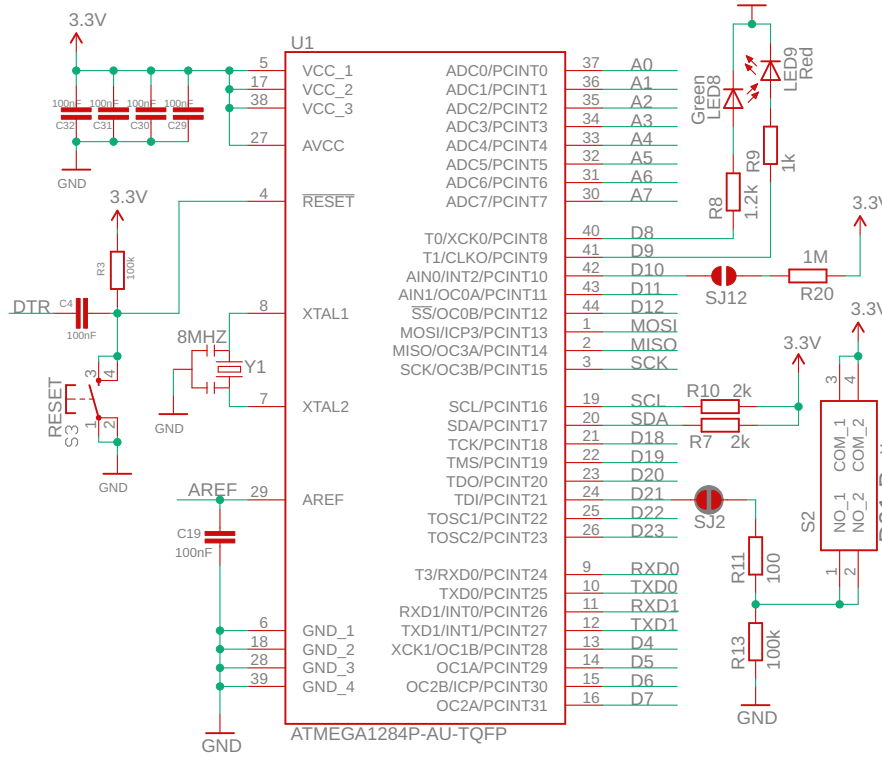
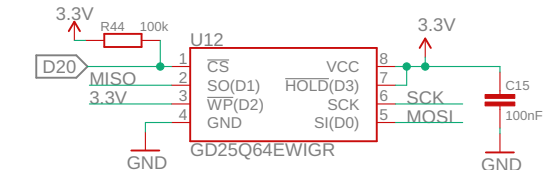


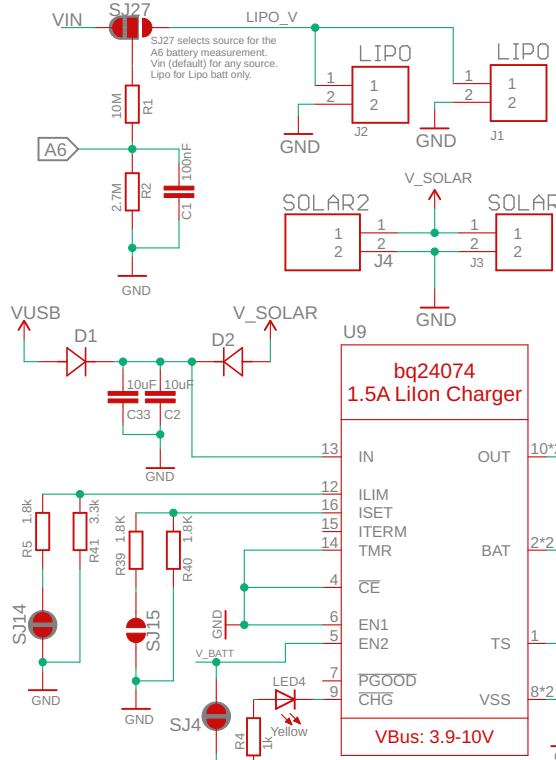
ATMEGA1284P



Flash memory

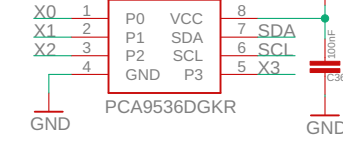


Lipo Charger and JST

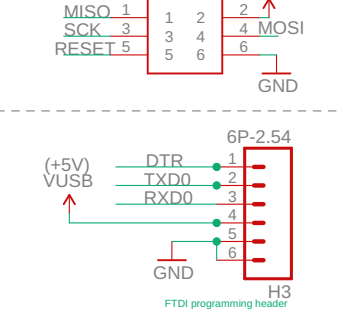


Close SJ14 (default) for 1.4A input current limit
Open SJ14 for 500mA current limit
Close SJ15 for 1A charge rate
Open SJ15 (default) for 500ma charge rate

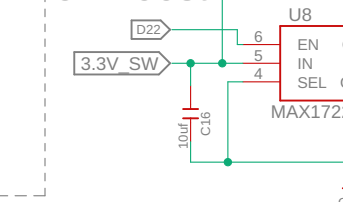
I2C Port Expander



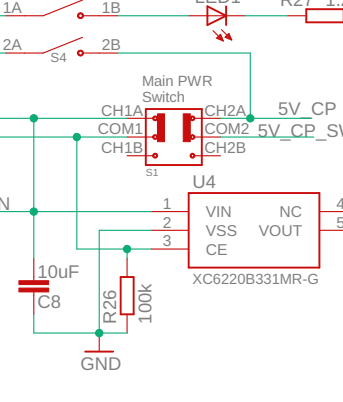
ICSP



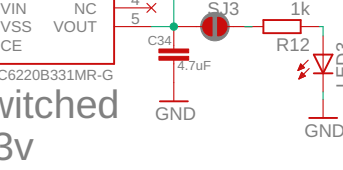
5v Boost



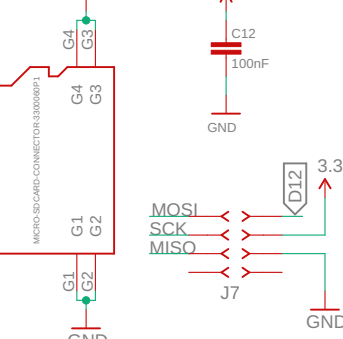
3.3v Main Regulator



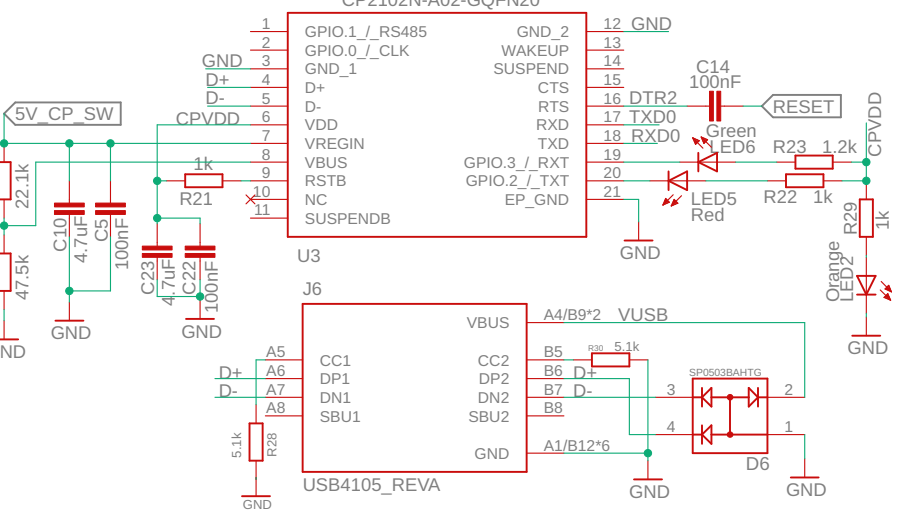
Switched 3.3v



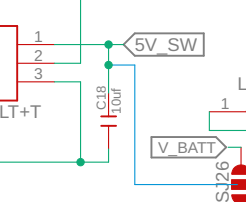
µSD Card



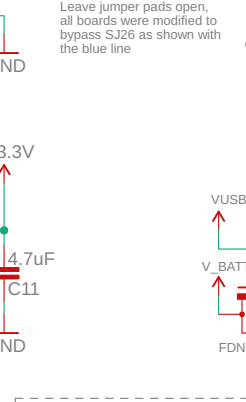
USB



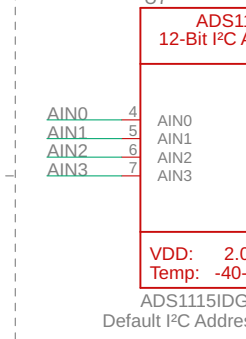
5v Boost



Switched 12v



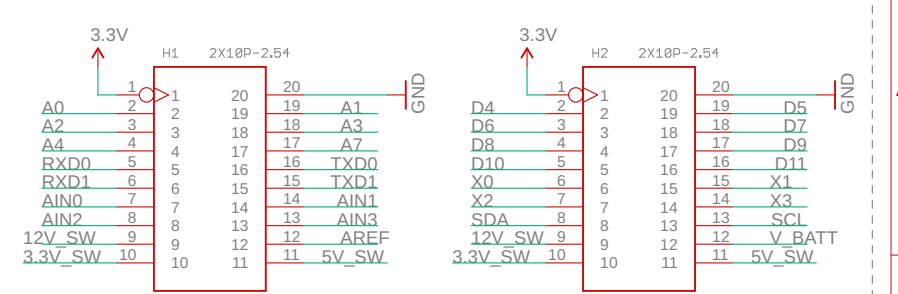
Auxiliary ADC



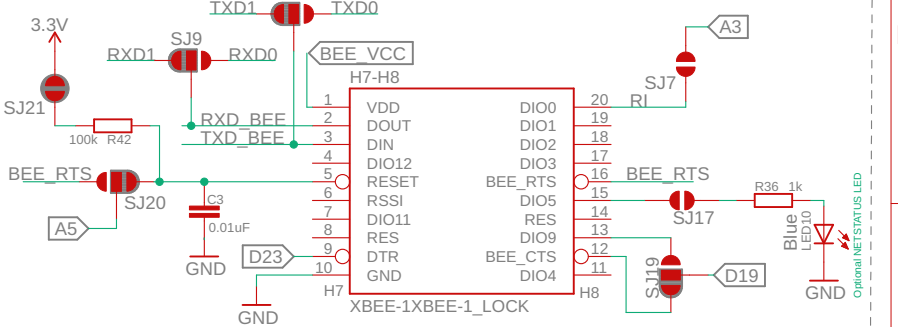
I2C addresses

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

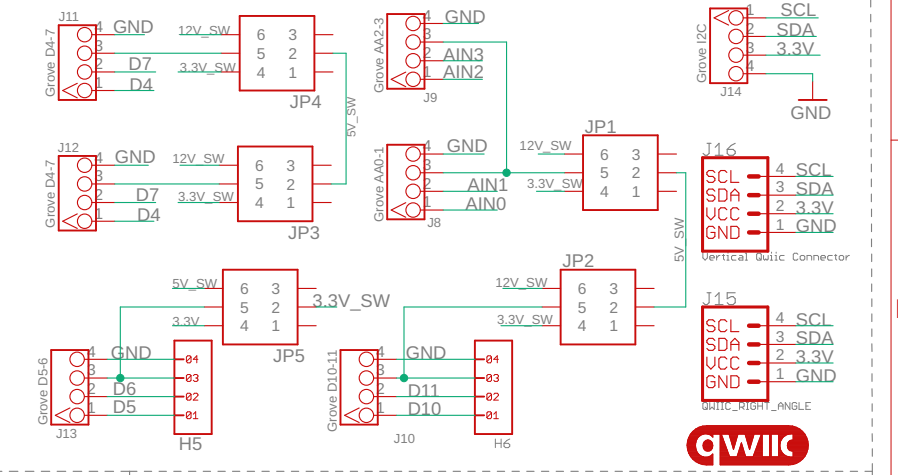
2x10 Headers



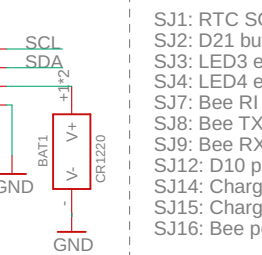
Bee



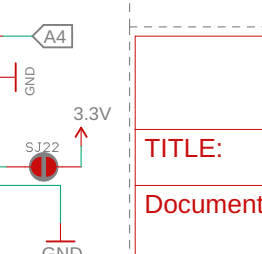
Grove & Qwiic



RTC



Onboard Sensors



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