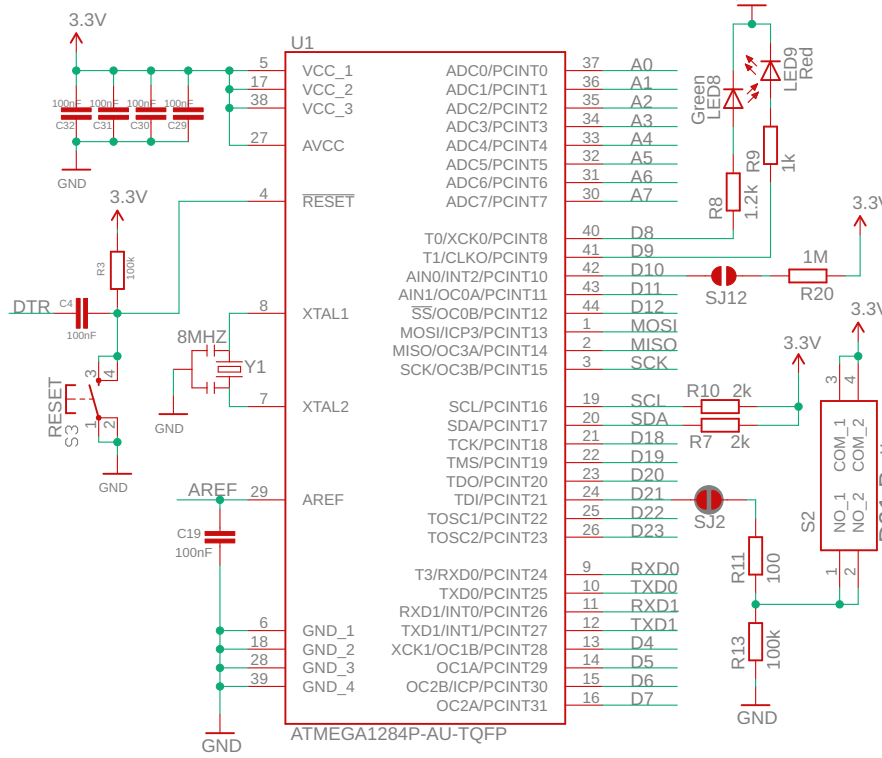
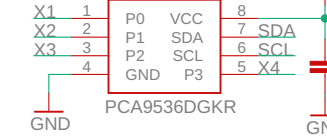


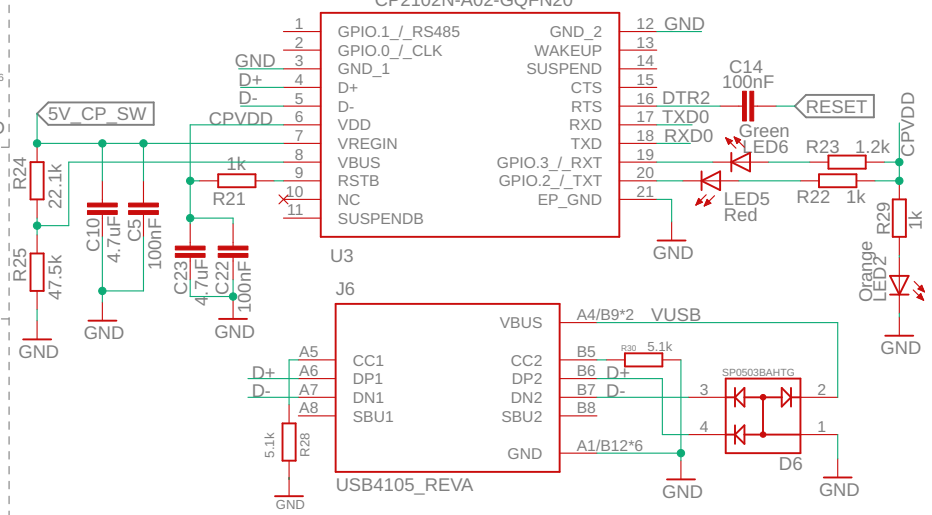
# ATMEGA1284P



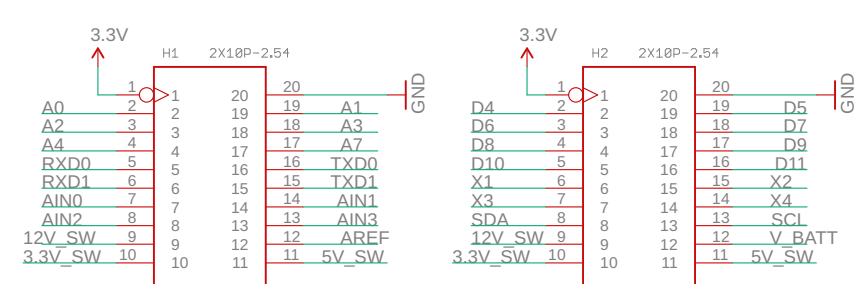
# I2C Port Expander



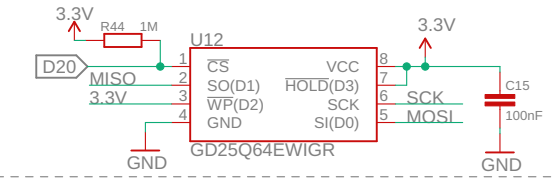
# USB



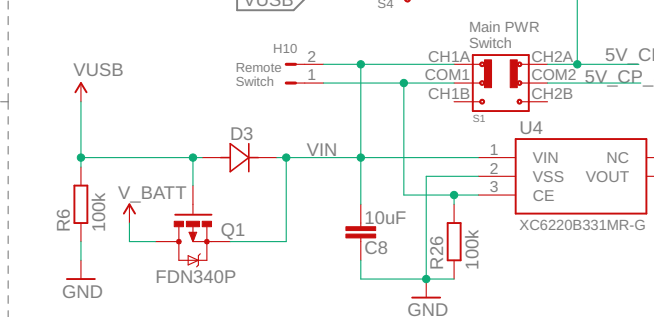
# 2x10 Headers



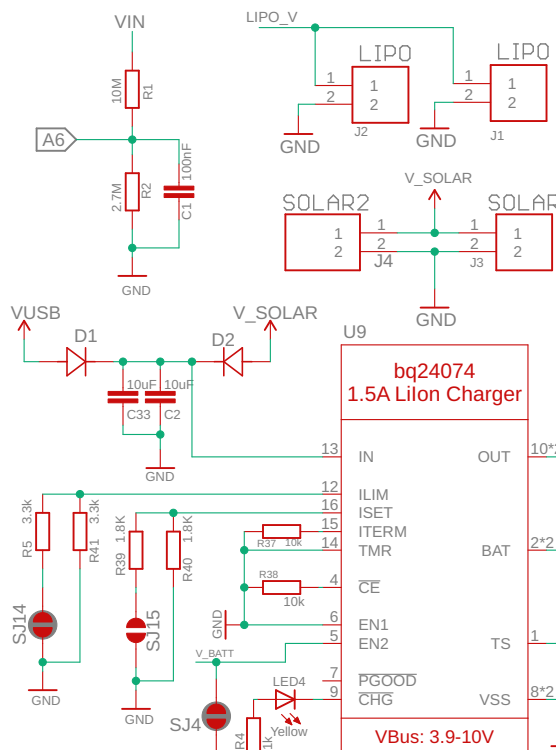
# Flash memory



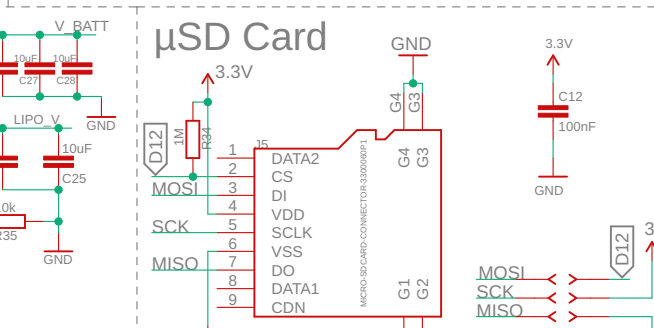
# 3.3v Main Regulator



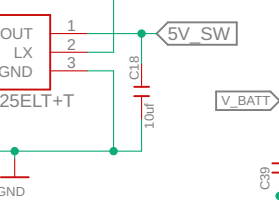
# Lipo Charger and JST



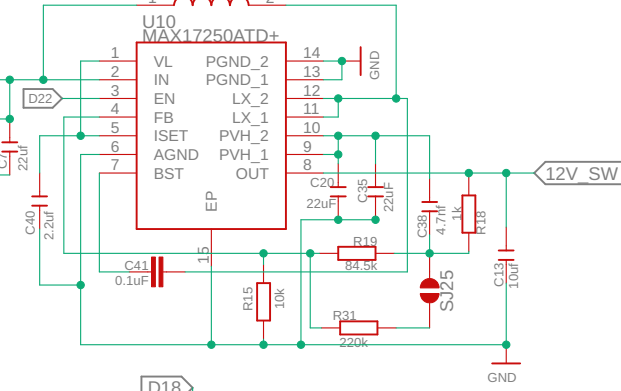
# Switched 3.3v



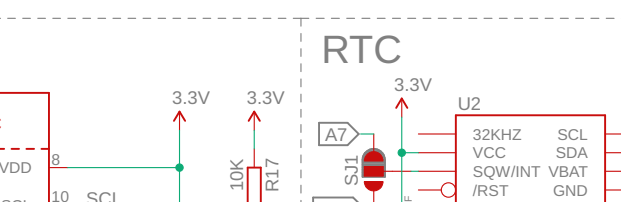
# 5v Boost



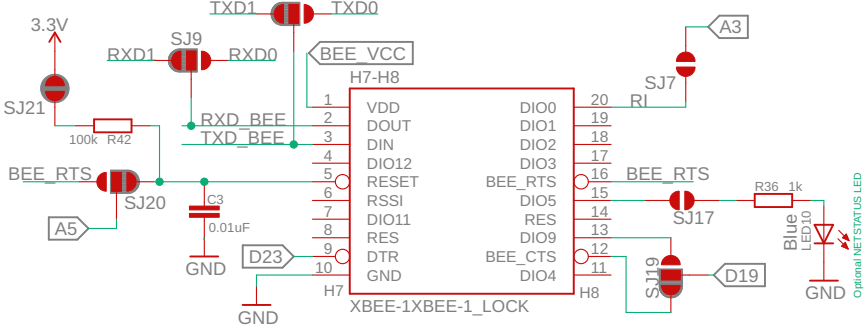
# Switched 12v



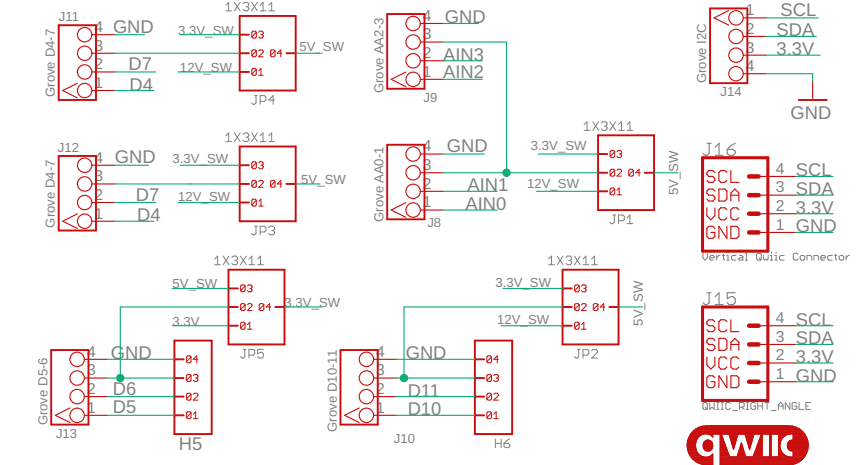
# Bee Regulator



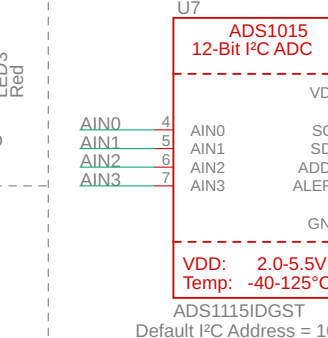
# Bee



# Grove & Qwiic



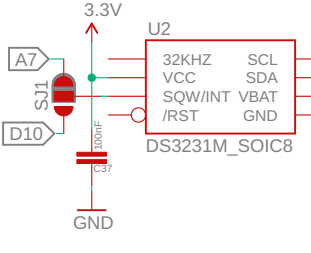
# Auxiliary ADC



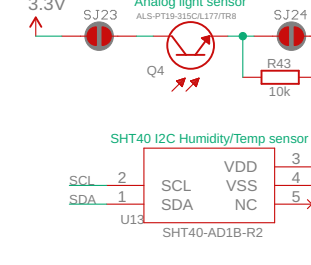
# I2C addresses

ADS1115 ADC: 0x48  
 DS2321 RTC: 0x68  
 SHT40 H/T sensor: 0x44  
 PCA9536 IO expander: 0x41

# 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