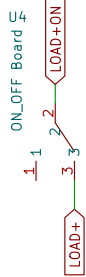
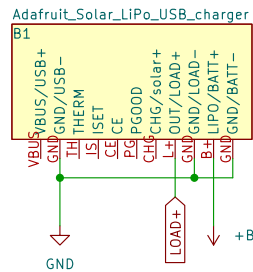


Power System

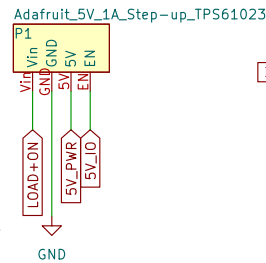
PWR Switch Board



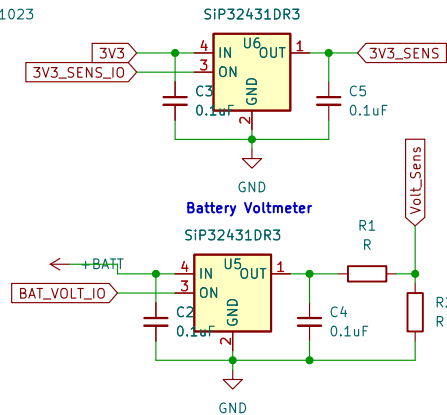
Solar LiPo Charger



5V Step up / Switch

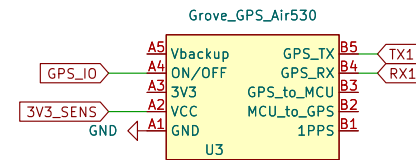


3V3_SENS Switch

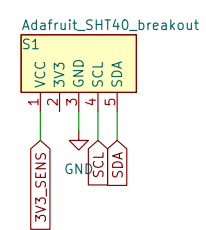


Sensors

GPS

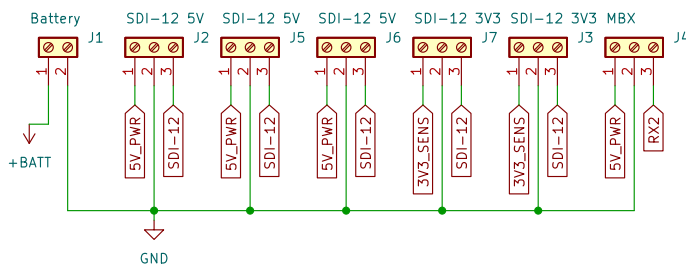


Internal T/RH

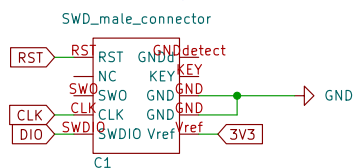


Physical Connectors

Screw Terminals

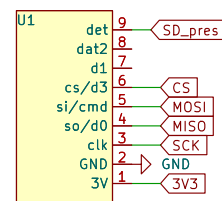


SWD 10 pins Plug

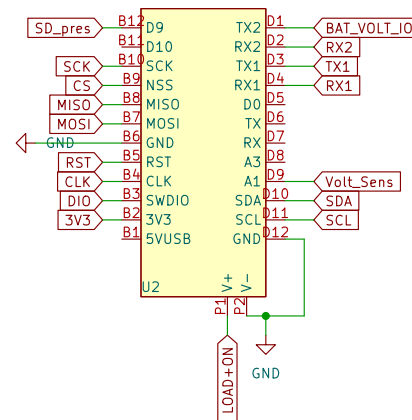


Logic

Adafruit_MicroSD_breakout



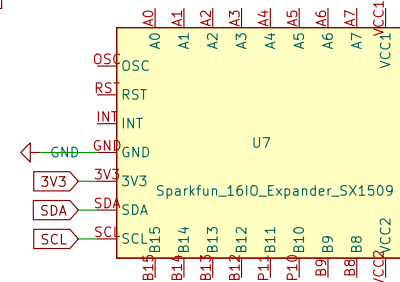
Lora_E5_Mini



Pin To Be Placed



Not currently used



TODO:

- Add multiplexer for more Digital pin (is it needed?)
- Solar charge regulator
 - add battery voltage system, either find a digital chip, or build a voltage divider connected to analog pin.
 - Check if using CE to prevent over-charging could save battery?
- 5V Stepup:
 - Can 5V_IO (on-off) state be maintained via a digital pin used when microprocessor asleep?
- Voltage divider: calculate resistance voltage
- Decide if external need RTC
- Swap SHT40 for SHT31 (supported in RIOT)

S. Filhol
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University of Oslo

Sheet: /
File: E5_logger.kicad_sch

Title: RIOT LoRa-E5 Mini UIO logger V1

Size: A4 Date: 2022-07-26

KiCad E.D.A. kicad 6.0.7

Rev: 1

Id: 1/1