

oracle power supply

File: power\_supply.kicad\_sch

oracle interface & ports

File: interface.kicad\_sch

oracle MM

File: mm.kicad\_sch

Sheet: /

File: oracle.kicad\_sch

**Title: oracle root**

Size: A4

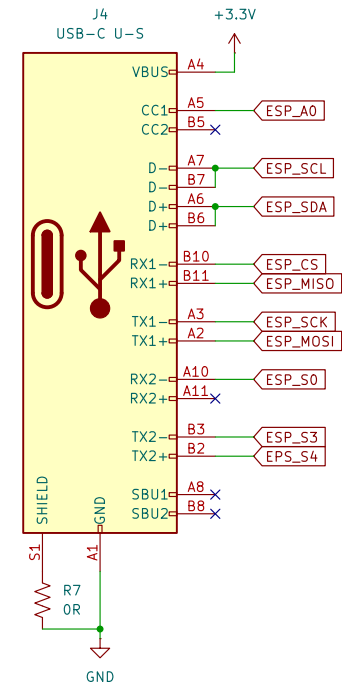
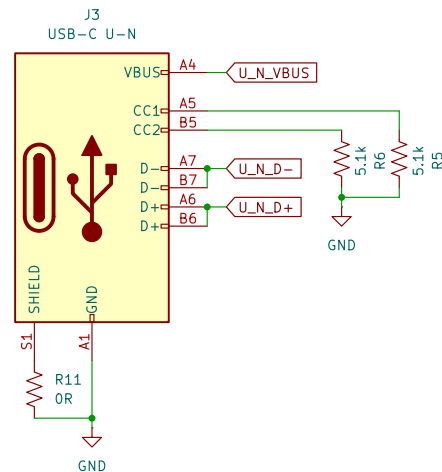
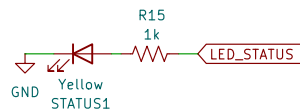
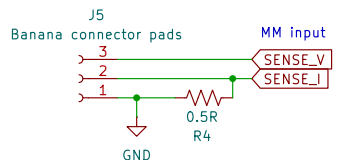
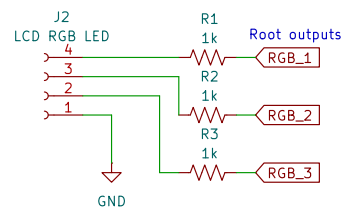
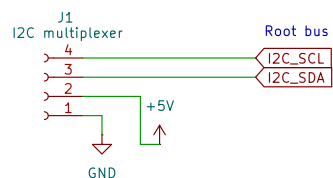
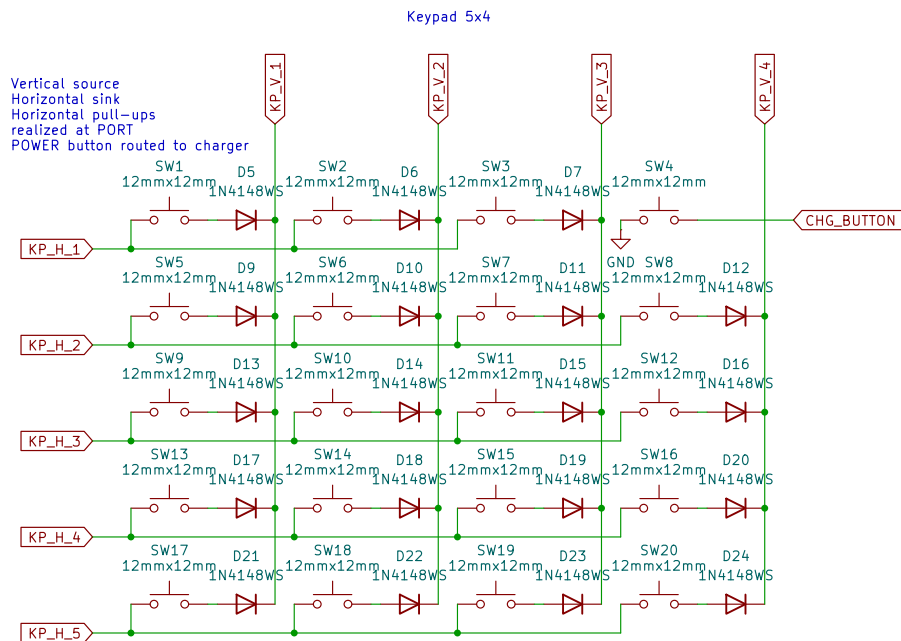
Date: 2024-11-09

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**Rev: 1.0**

Id: 1/4

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- 5x4 keypad matrix (multiplexed)
- I2C 16x2 LCD with RGB backlight
- charger USB-C port (U-P) (on power schem.)
- native 32u4 USB-C port (U-N)
- serial bus/esp USB-C port (U-E)
- SPI port on USB-C (U-S)
- banana connector GND (B-G)
- banana connector for current measurement (B-A)
- banana connector for general measurements (B-V)

vaexey

Sheet: /oracle interface & ports/

File: interface.kicad\_sch

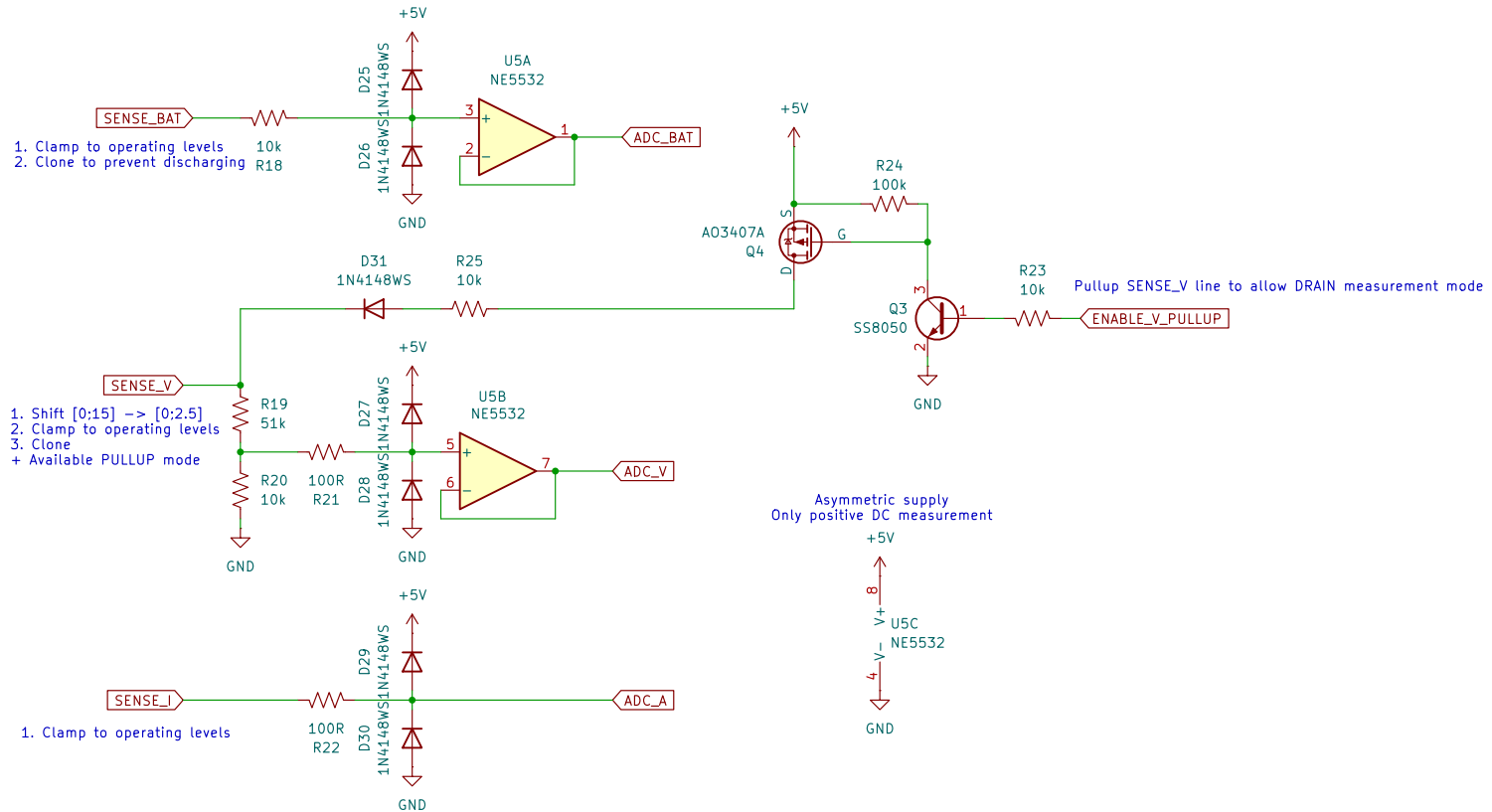
## Title: interface & ports

Size: A4 Date: 2024-11-09

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Rev: 1.0

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- voltage shift from [0:+15] to [0:2.56]
- shunt voltage amplification k=(to be discussed)
- voltage clamping to protect ADC pins

**vaexey**

Sheet: /oracle MM/  
File: mm.kicad\_sch

**Title: measurement module (MM)**

Size: A4

Date: 2024-11-09

Rev: 1.0

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