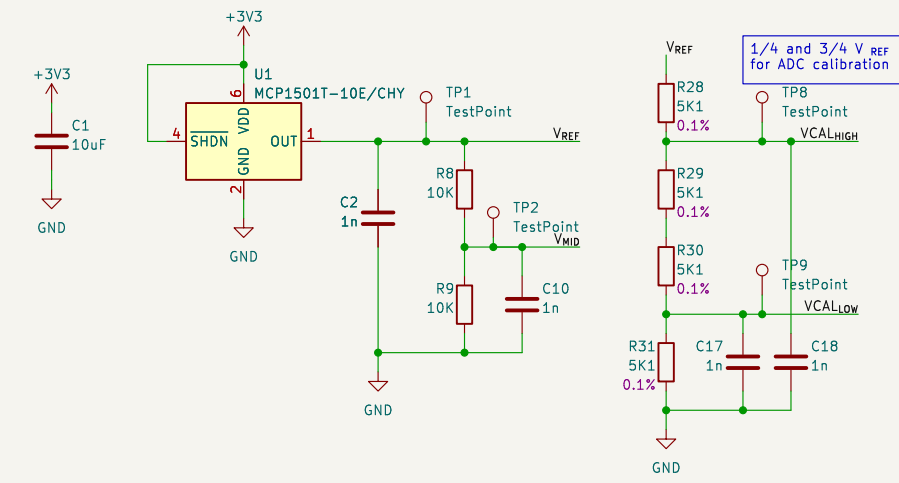
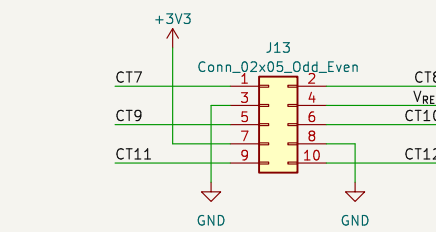


Voltage Reference Generation

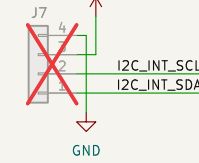


Optional Headers

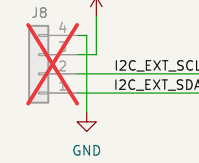
Additional Current Sensors



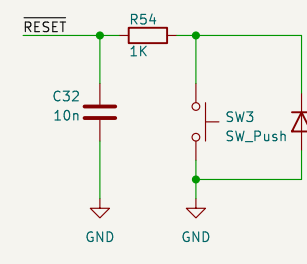
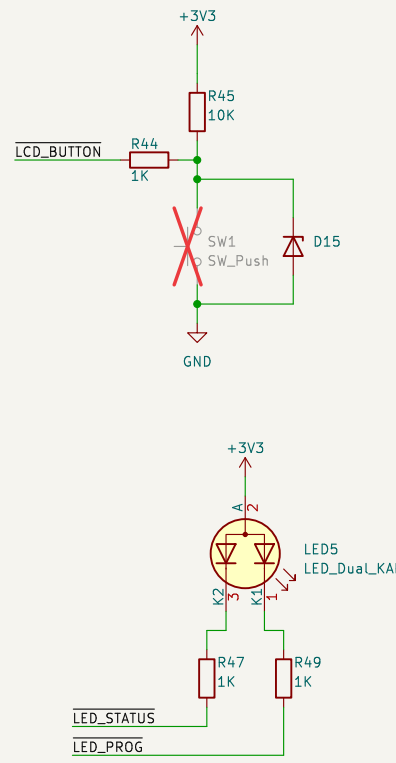
INT I2C



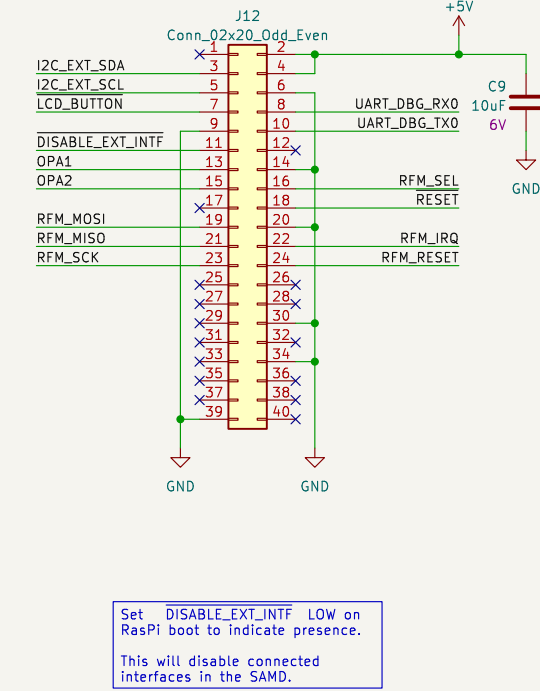
OLED



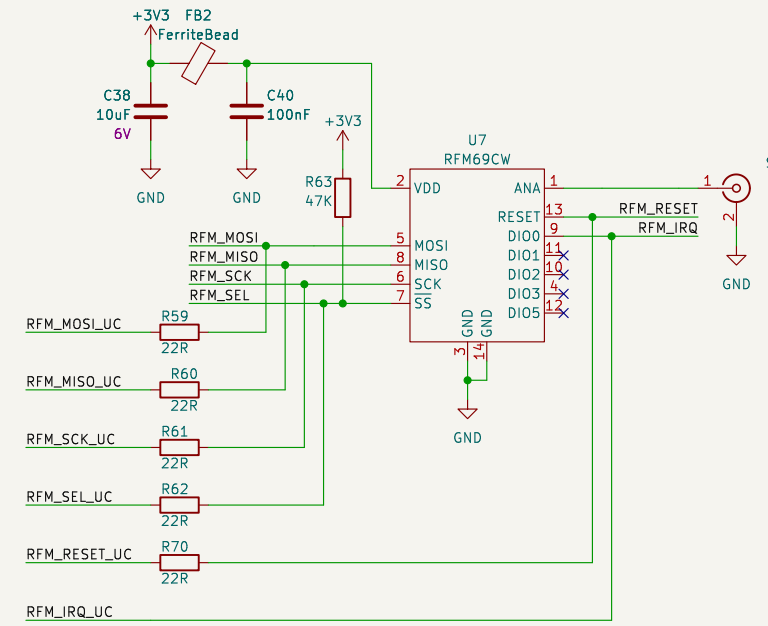
User Interface



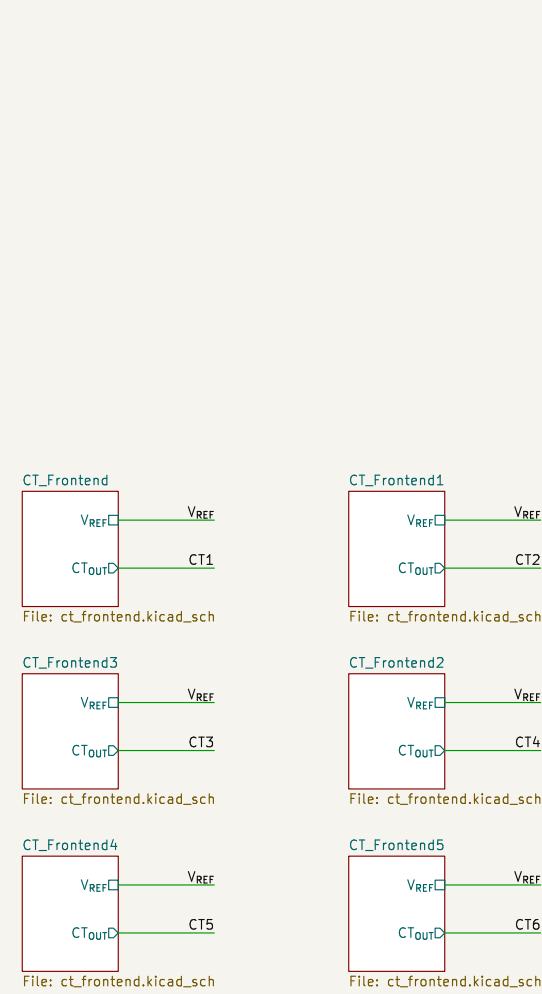
Raspberry PI Header



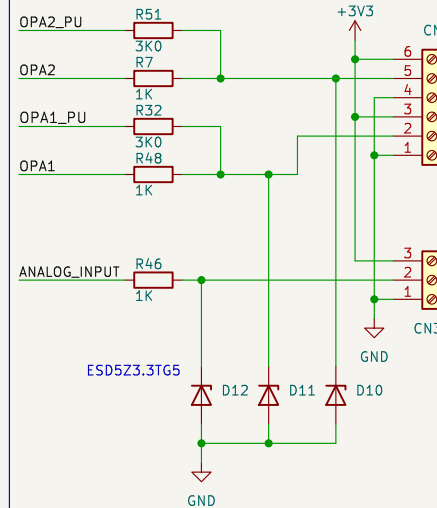
Wireless Transmitter



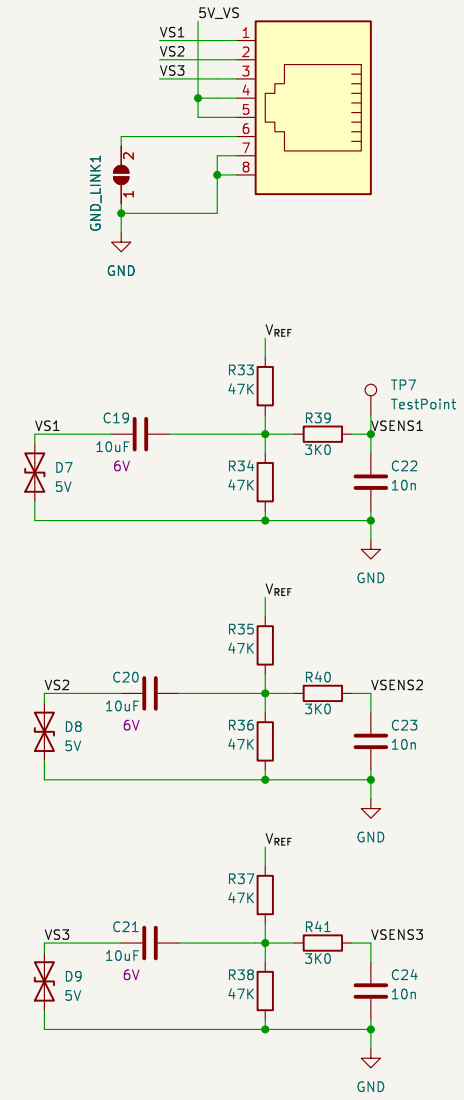
CT Current Sensors



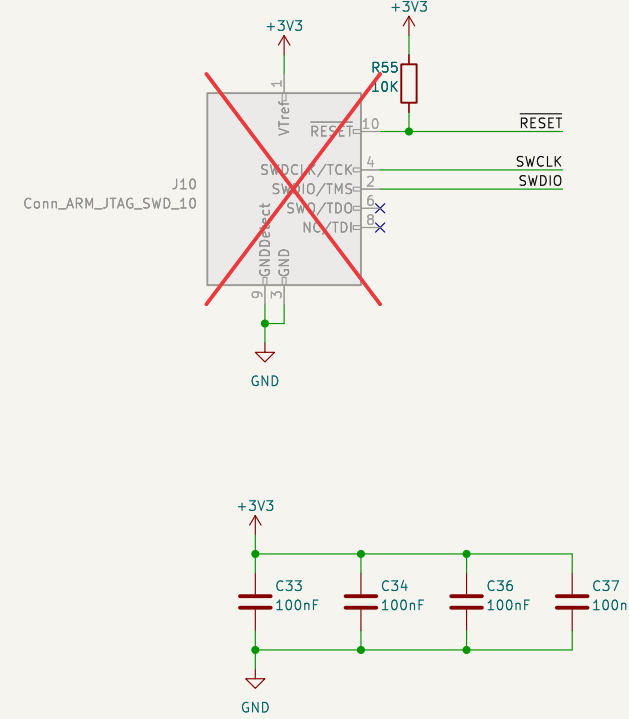
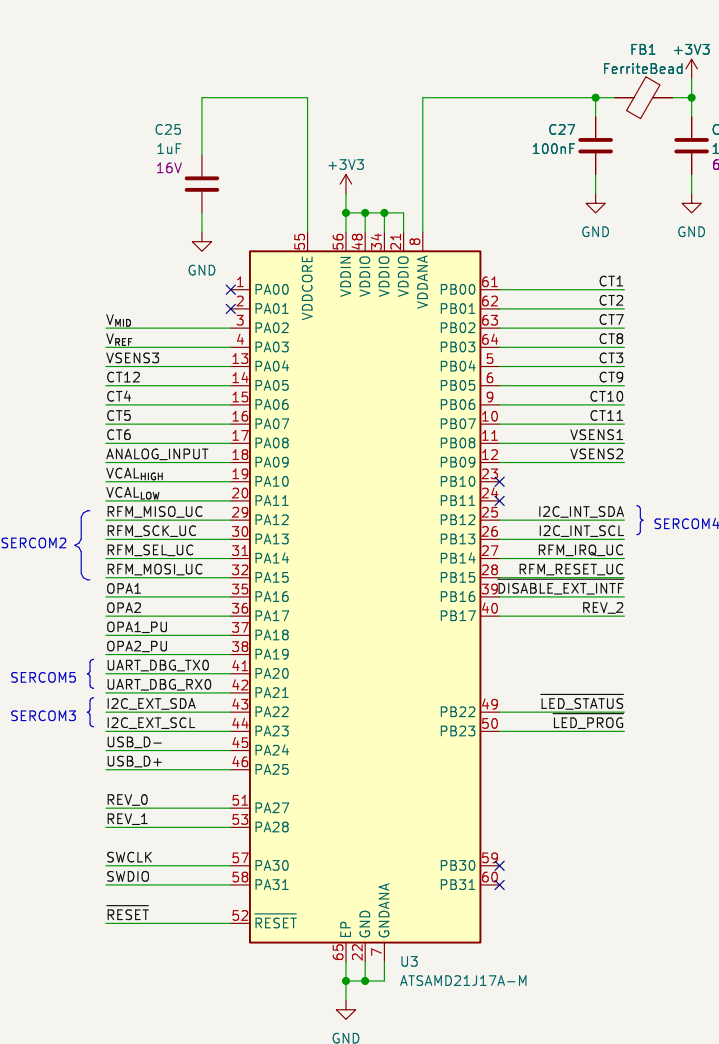
Temperature, Pulse, and Analog Inputs



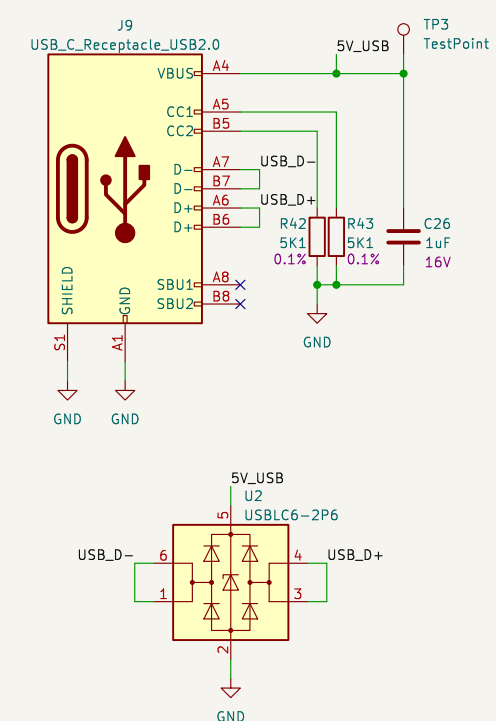
Voltage Sensors



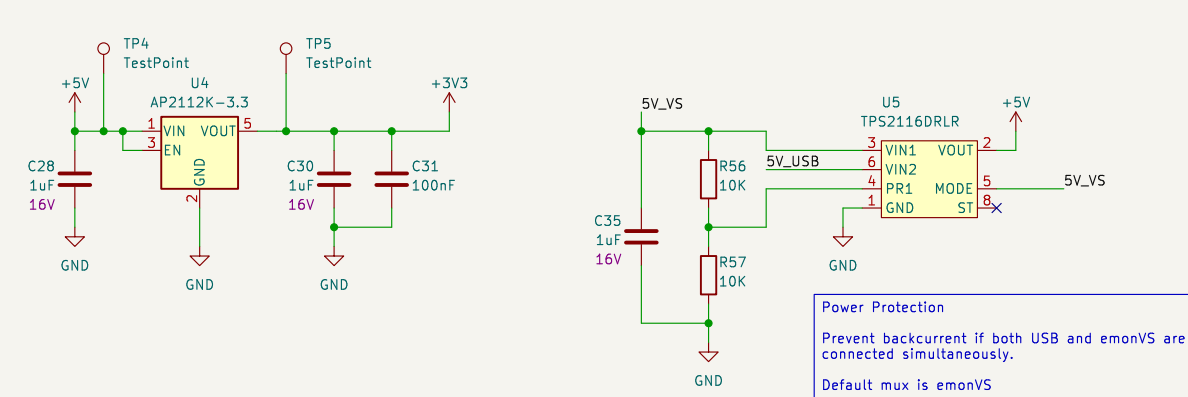
Microcontroller



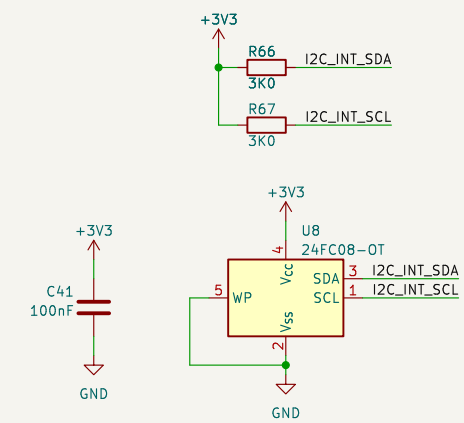
USB and Protection



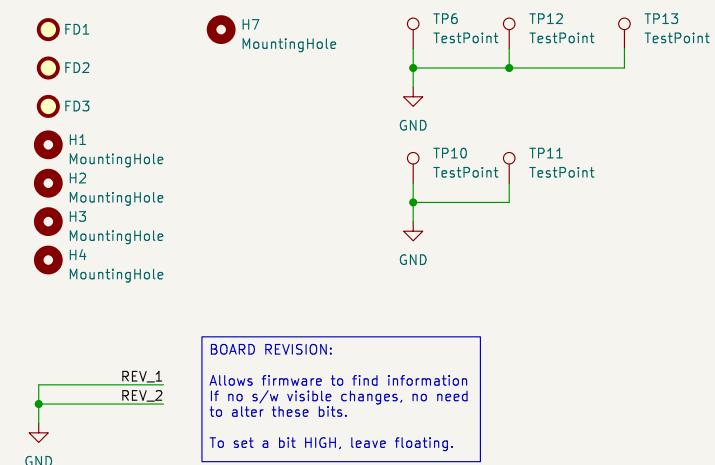
Power Supply and Protection



EEPROM



Fabrication



Hardware design files are licensed under the Creative Commons Attribution-ShareAlike 4.0 License
Design is provided "AS IS" and "WITH ALL FAULTS. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE DISCLAIMED.

Commit hash: 6c5bdc
Original design: Trystan Lea & Glynn Hudson
OpenEnergyMonitor / Tilt Ltd (Angus Logan)

Sheet: /
File: emonPi3.kicad_sch

Title: emonPi3

Size: A2 Date: 2024-12-28

KiCad E.D.A. kicad-cli 7.0.2-0

Rev: v1.0

Id: 1/7

| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A | | | | | A |
| B | | | | | B |
| C | | | | | C |
| D | | | | | D |
| 1 | 2 | 3 | 4 | 5 | 6 |

| | | |
|---|---------|------|
| | | |
| Sheet: /CT_Frontend/ File: ct_frontend.kicad_sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. kicad-cli 7.0.2-0 | Id: 2/7 | |

| | | | | | |
|--------|--|--|--|--|--|
| 123456 | | | | | |
| A | | | | | |
| B | | | | | |
| C | | | | | |
| D | | | | | |
| 123456 | | | | | |

| | | |
|--|-------|---------|
| | | |
| Sheet: /CT_Frontend1/ File: ct_frontend.kicad_sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. kicad-cli 7.0.2-0 | | Id: 3/7 |

| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A | | | | | A |
| B | | | | | B |
| C | | | | | C |
| D | | | | | D |
| 1 | 2 | 3 | 4 | 5 | 6 |

| | | |
|--|---------|------|
| | | |
| Sheet: /CT_Frontend3/ File: ct_frontend.kicad_sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. kicad-cli 7.0.2-0 | Id: 4/7 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| A | | | | | | |
| B | | | | | | |
| C | | | | | | |
| D | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 |

| | | |
|--|---------|------|
| Sheet: /CT_Frontend2/ File: ct_frontend.kicad_sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. kicad-cli 7.0.2-0 | Id: 5/7 | |

| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A | | | | | A |
| B | | | | | B |
| C | | | | | C |
| D | | | | | D |
| 1 | 2 | 3 | 4 | 5 | 6 |

| | | |
|--|-------|---------|
| | | |
| Sheet: /CT_Frontend4/ File: ct_frontend.kicad_sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. kicad-cli 7.0.2-0 | | Id: 6/7 |

| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A | | | | | A |
| B | | | | | B |
| C | | | | | C |
| D | | | | | D |
| 1 | 2 | 3 | 4 | 5 | 6 |

| | | |
|--|-------|---------|
| | | |
| Sheet: /CT_Frontend5/ File: ct_frontend.kicad_sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. kicad-cli 7.0.2-0 | | Id: 7/7 |