

<https://github.com/atoomnetmarc/loT12>

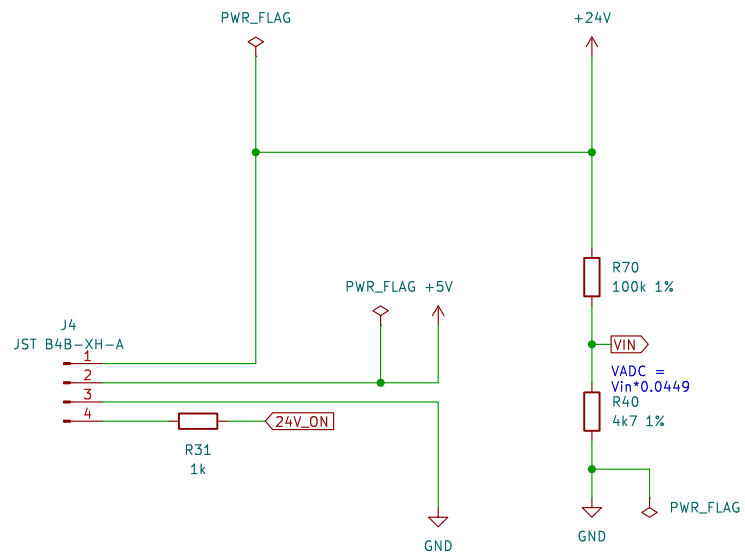
Sheet: /
File: IoT12 Control Board.kicad_sch

Title: IoT12 Control Board

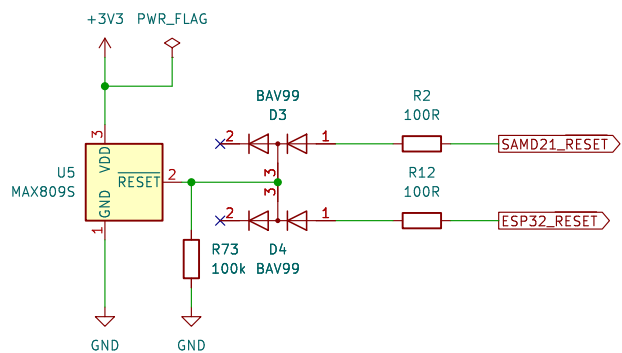
Size: A5 Date: 2022-12-20
KiCad E.D.A. kicad 7.0.2

Rev: V2.2
Id: 1/5

Power input



Voltage monitor



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Sheet: /Power/

File: loT12 Control Board Power.kicad_sch

Title: loT12 Control Board

Size: A4

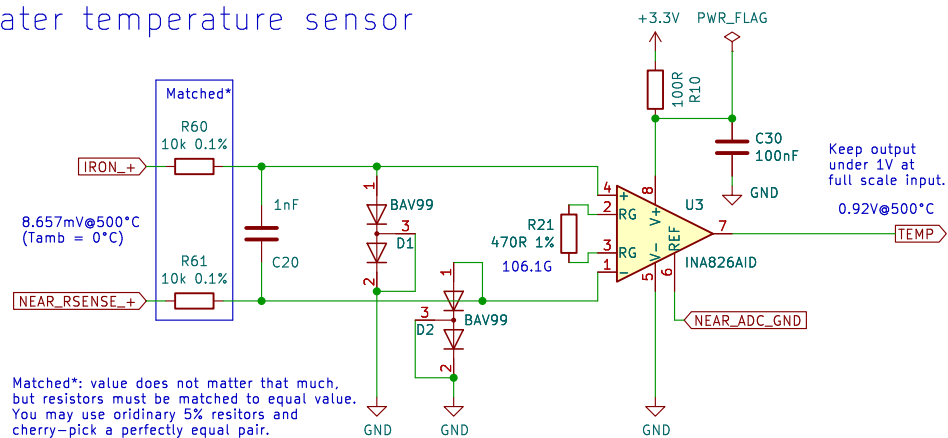
Date: 2022-12-20

Rev: V2.2

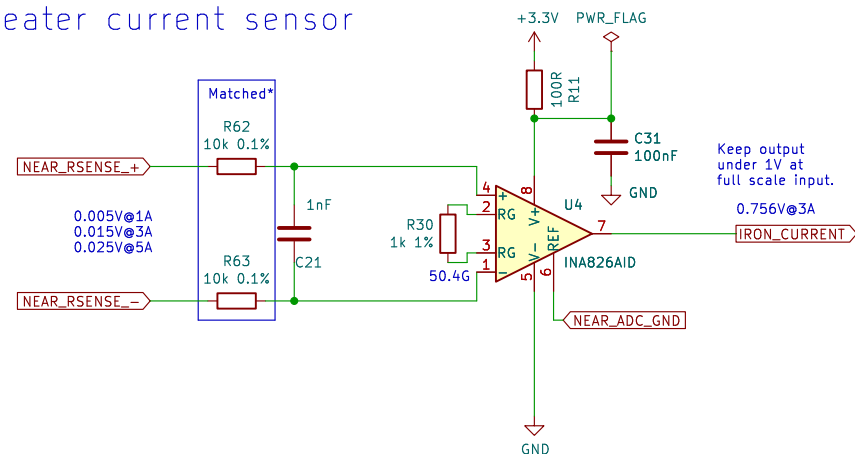
KiCad E.D.A. kicad 7.0.2

Id: 2/5

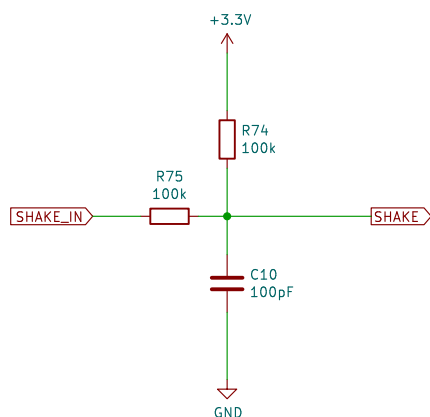
Heater temperature sensor



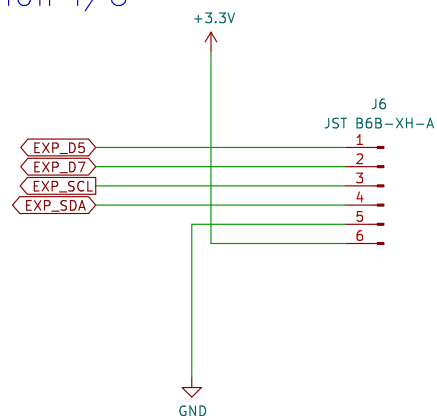
Heater current sensor



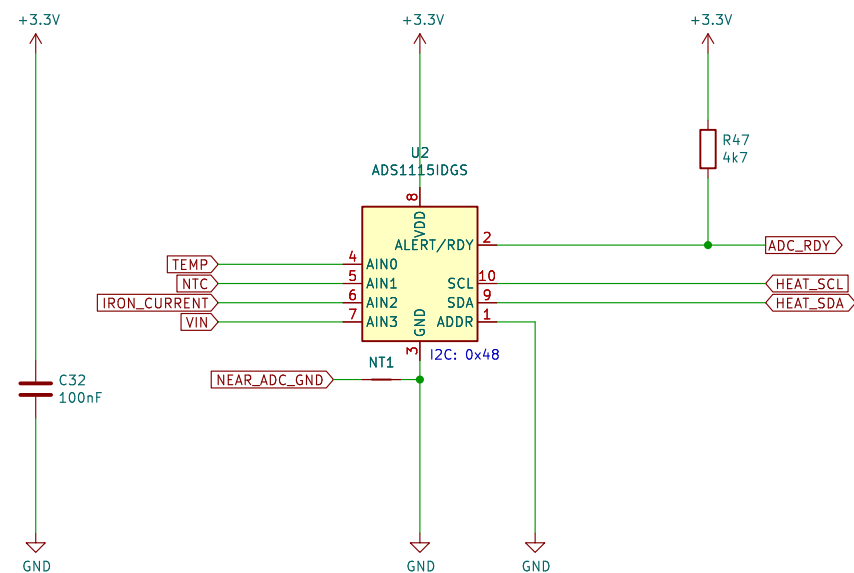
Shake sensor



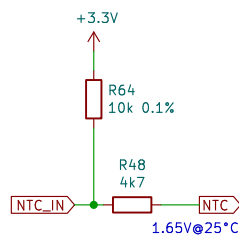
Expansion I/O



16b I2C ADC



Handle NTC



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Sheet: /Input/
File: loT12 Control Board Input.kicad_sch

Title: loT12 Control Board

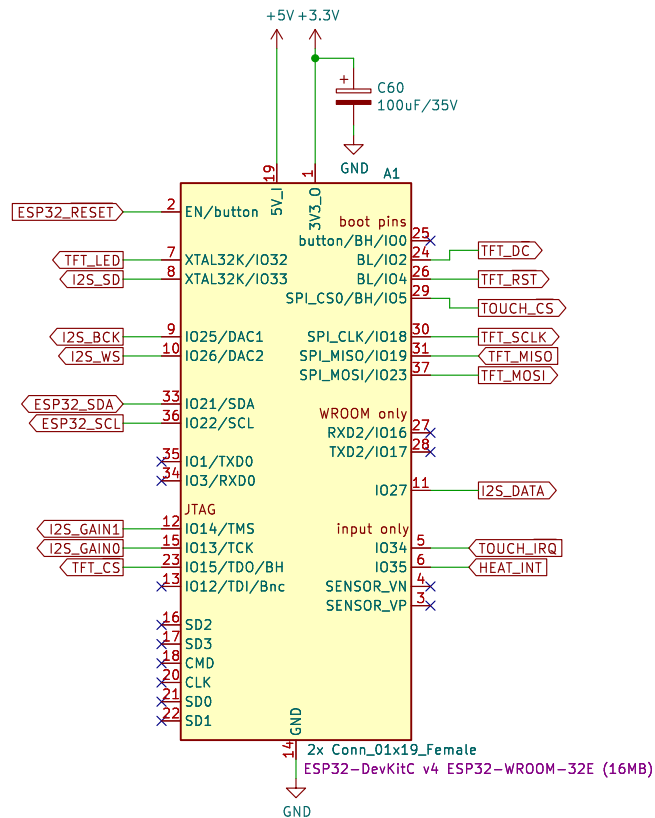
Size: A4 Date: 2022-12-20

KiCad E.D.A. kicad 7.0.2

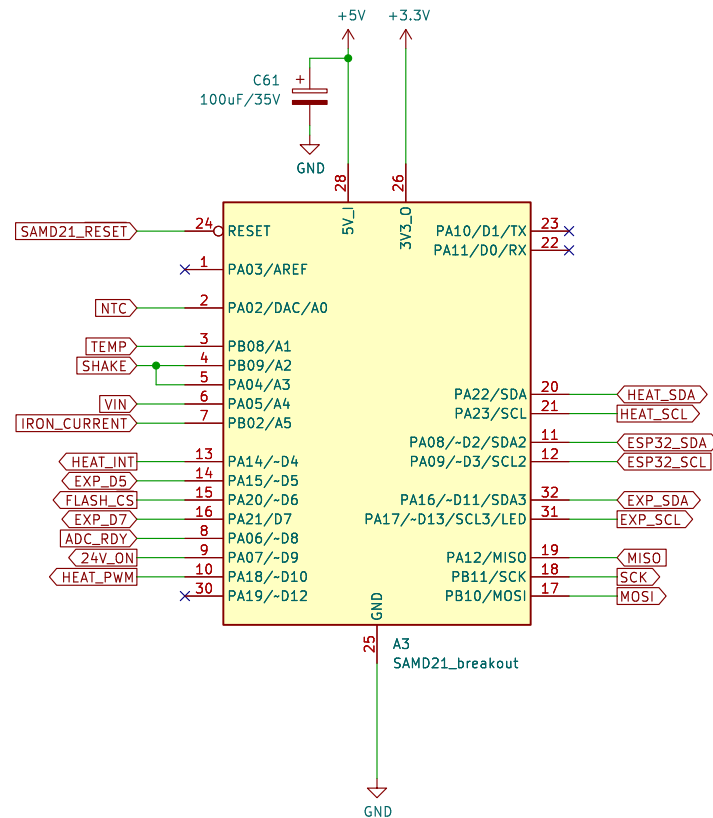
Rev: V2.2

Id: 3/5

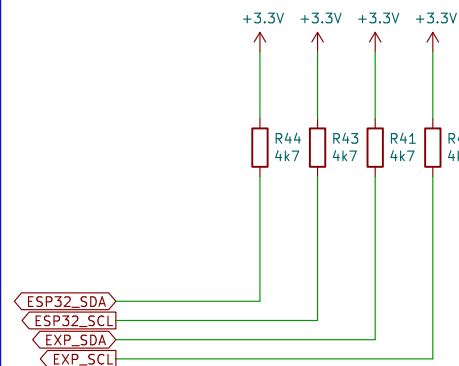
ESP32 wireless module



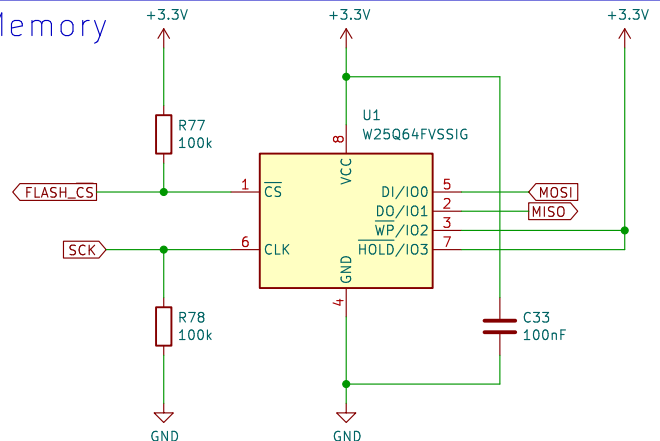
Heat controller



The pull is strong



Memory



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Sheet: /Brain/
File: loT12 Control Board Brain.kicad_sch

Title: loT12 Control Board

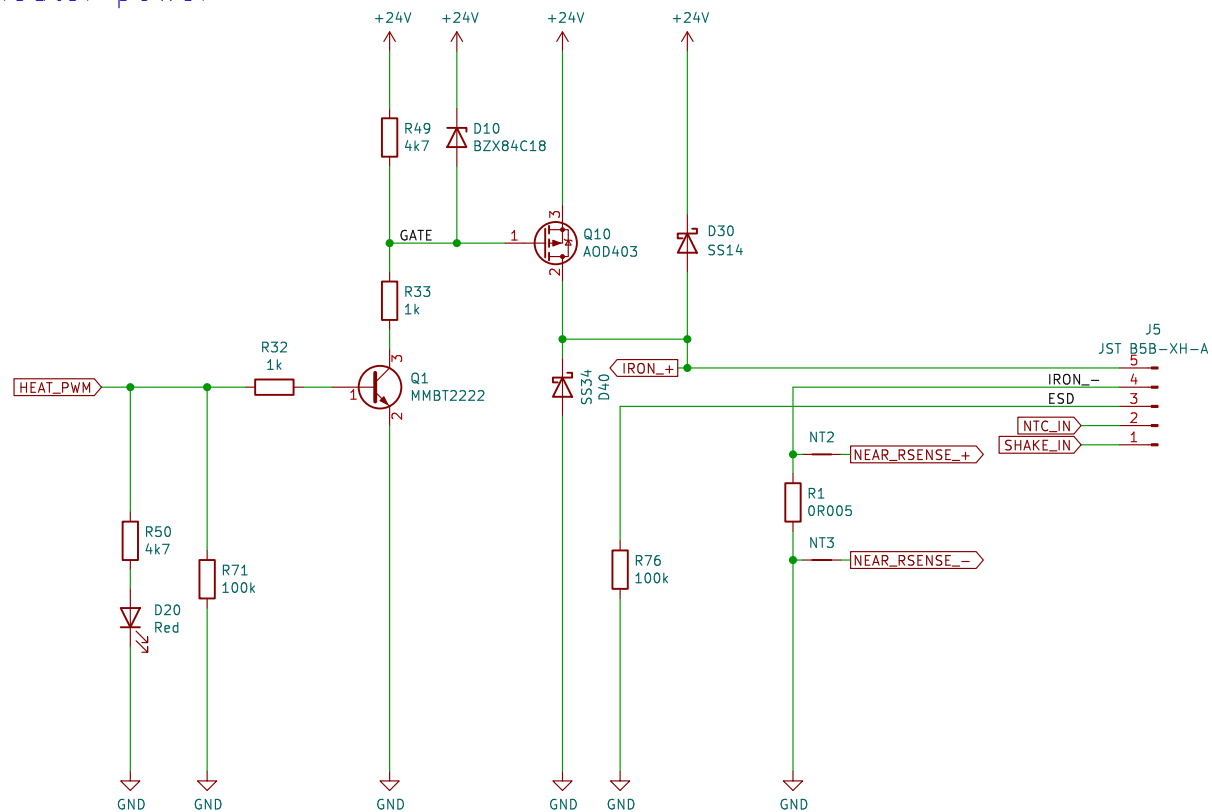
Size: A4 Date: 2022-12-20

KiCad E.D.A. kicad 7.0.2

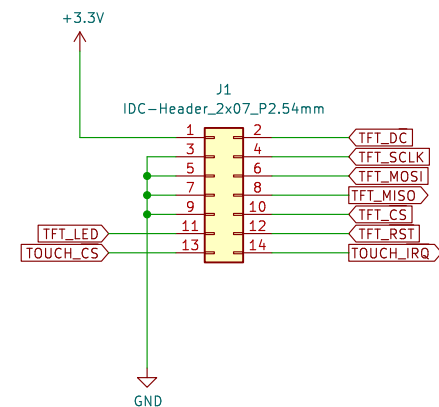
Rev: V2.2

Id: 4/5

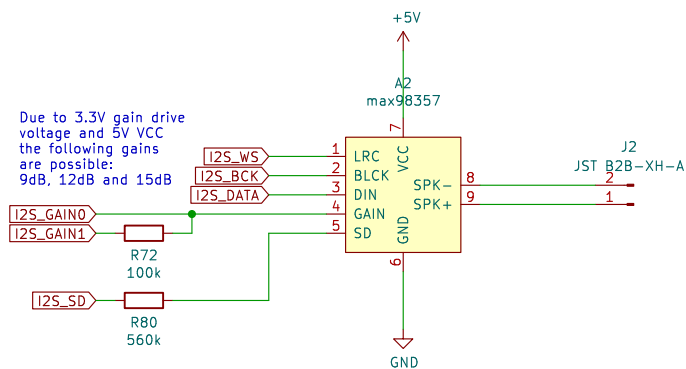
Heater power



| |
|------------------------|
| Display |
| 2.8" 320x240 TFT Touch |
| SKU: MSP2807 |
| Display: ILI9341 |
| Touch: XPT2046 |



Mono I2S audio amplifier



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Sheet: /Output/
File: IoT12 Control Board Output.kicad_sch

Title: IoT12 Control Board

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| Size: A4 | Date: 2022-12-20 |
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Rev: V2.2

Id: 5/5