

1

2

3

4

5

6

Sheet: Power

Sheet: Input

Sheet: Brain

Sheet: Output

File: IoT12 Control Board

Power IoT12 Control Board

Input IoT12 Control Board

Brain IoT12 Control Board

Output IoT12 Control Board Output.sch

H1
MountingHole

H2
MountingHole

H3
MountingHole

H4
MountingHole

Sheet: /

File: IoT12 Control Board.sch

Title: IoT12-hardware

Size: A4

Date: 2021-03-13

Rev: V2.1

KiCad E.D.A. kicad (5.1.9)-1

Id: 1/5

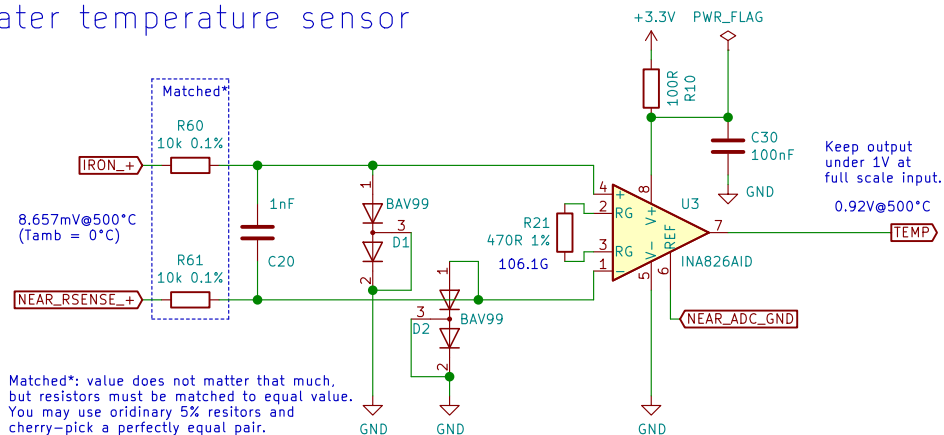
A

B

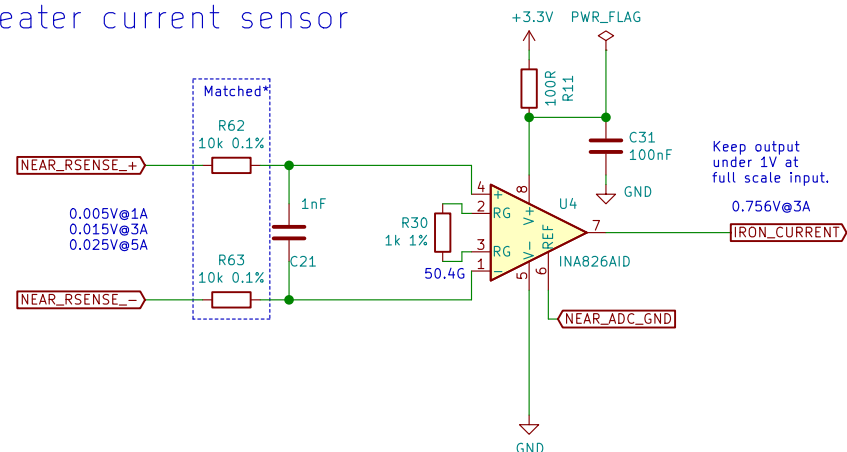
C

D

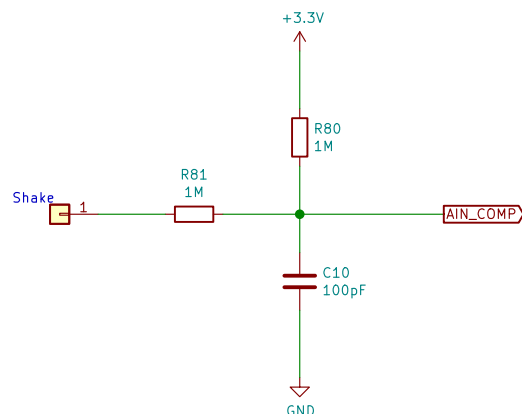
Heater temperature sensor



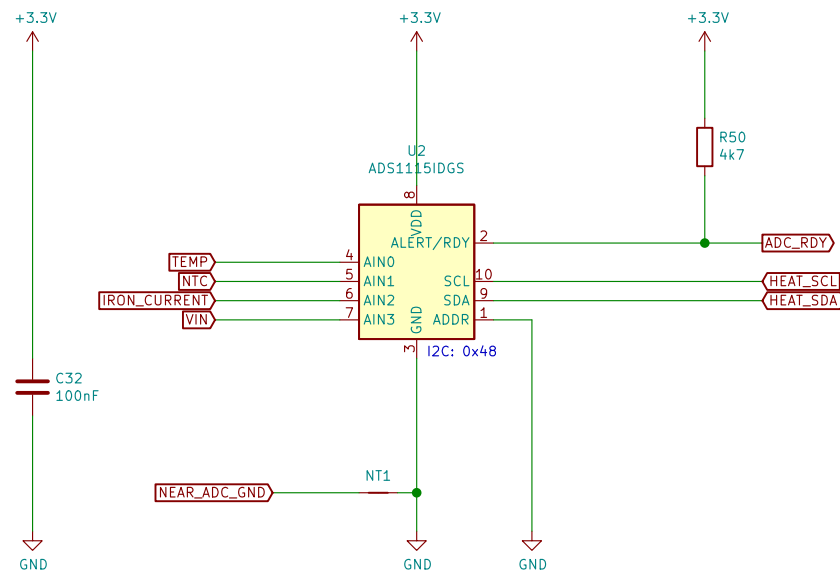
Heater current sensor



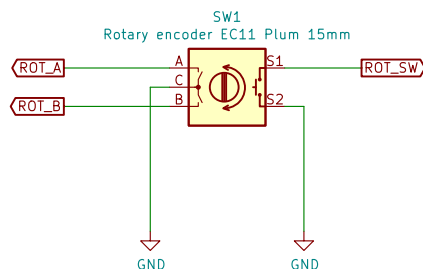
Tilt switch sensor as shake sensor



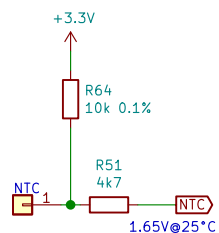
External 16b I2C ADC



User input



Handle NTC



Sheet: /Input/
File: IoT12 Control Board Input.sch

Title: IoT12-hardware input and sensors

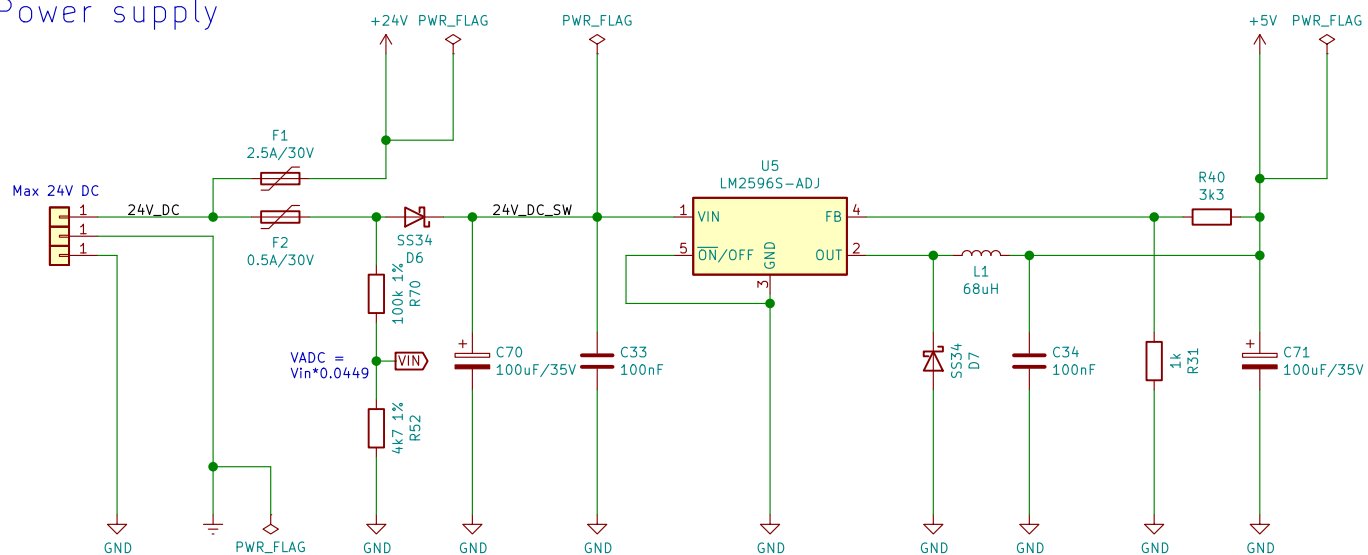
Size: A4 Date: 2021-03-13

KiCad E.D.A. kicad (5.1.9)-1

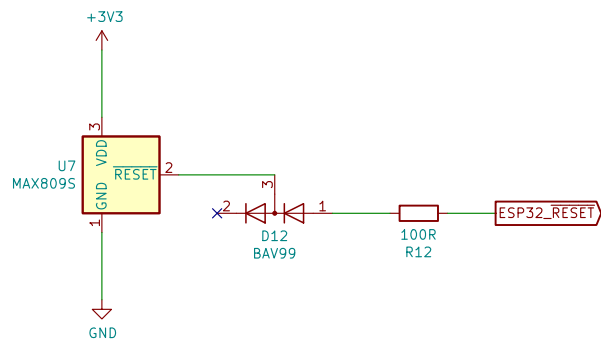
Rev: V2.1

Id: 2/5

Power supply



Voltage monitor



Sheet: /Power/
File: IoT12 Control Board Power.sch

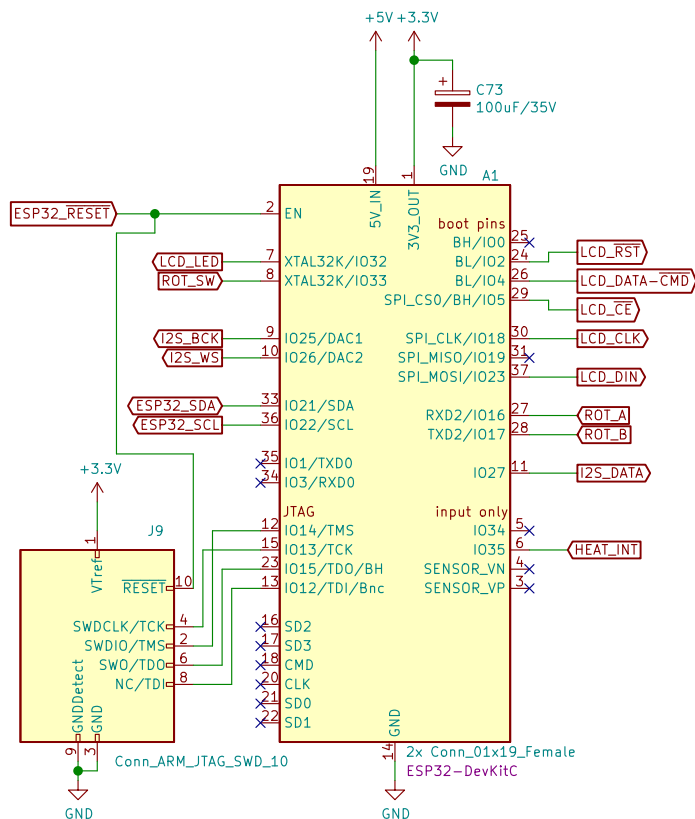
Title: IoT12-hardware power supply

Size: A4 Date: 2021-03-13

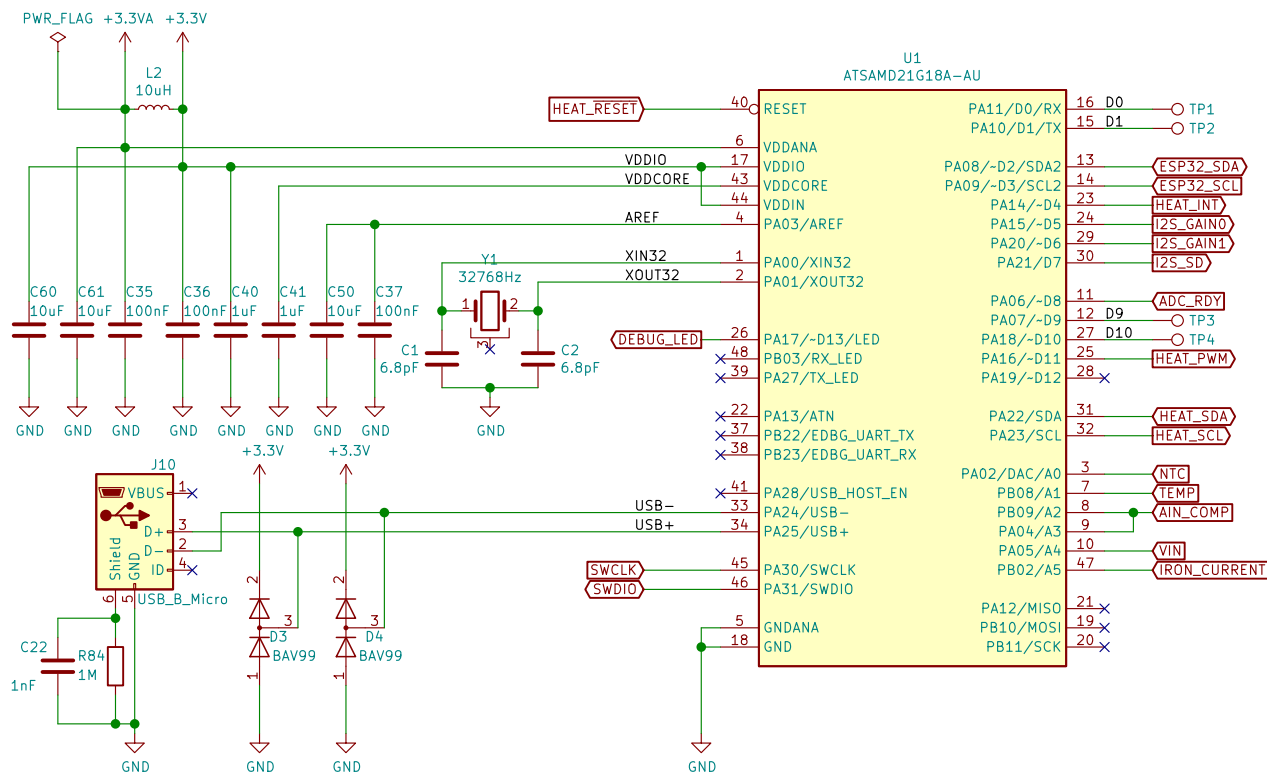
KiCad E.D.A. kicad (5.1.9)-1

Rev: V2.1

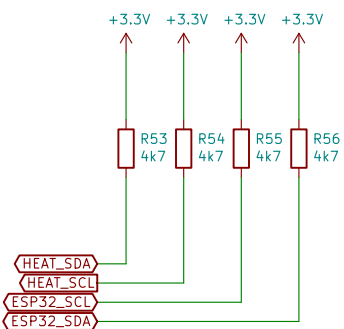
Id: 3/5



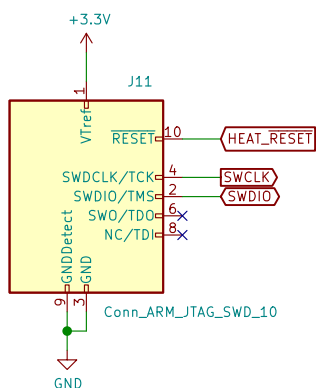
Heat controller



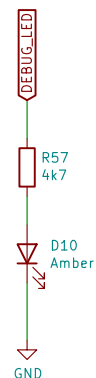
The pull is strong



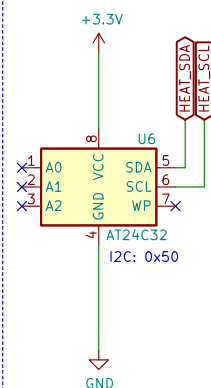
Heat controller SWD



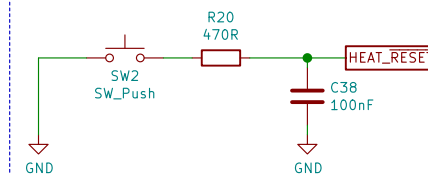
Debug LED



EEPROM



Heat controller reset



Sheet: /Brain/
File: IoT12 Control Board Brain.sch

Title: IoT12-hardware brain

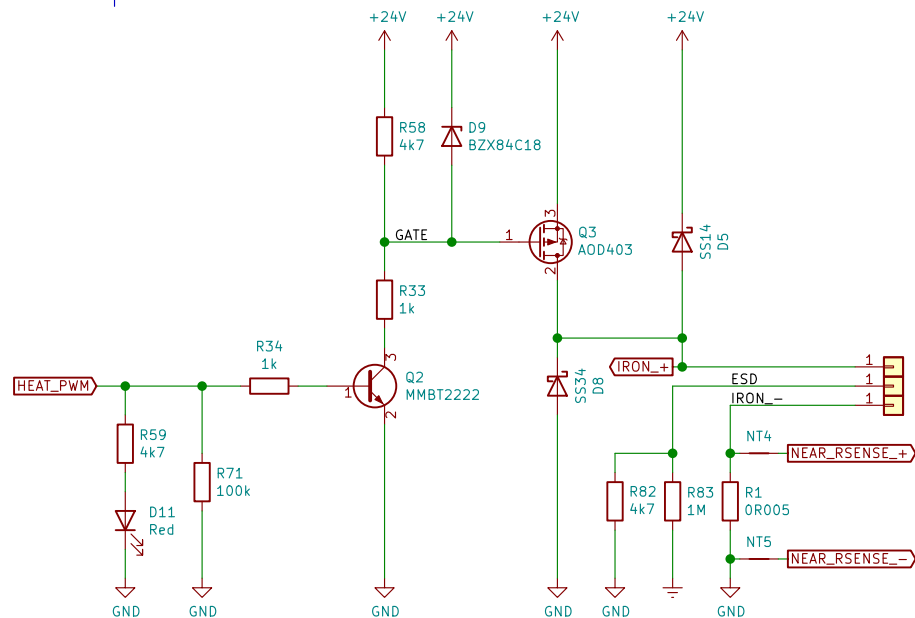
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| Size: A4 | Date: 2021-03-13 |
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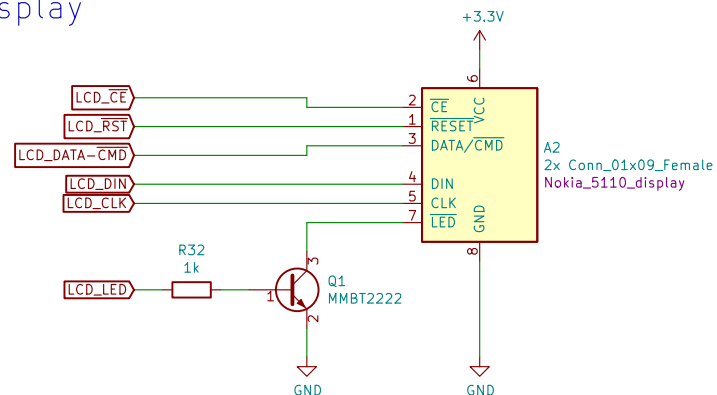
Rev: V2.1

Id: 4/5

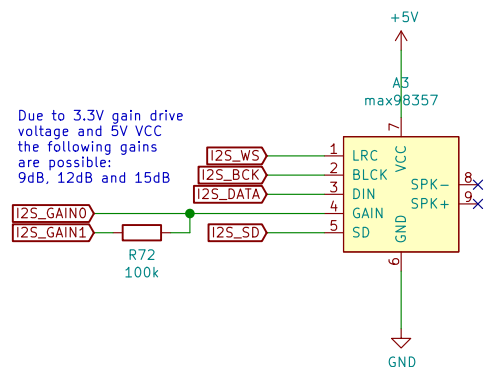
Heater power



Display



Bleep bloop module



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

Title: IoT12-hardware output

| | |
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| Size: A4 | Date: 2021-03-13 |
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