

123456

Sheet: Power

File: Power.sch

Sheet: Input

File: Input.sch

Sheet: Brain

File: Brain.sch

Sheet: Output

File: Output.sch

H1

MountingHole

H2

MountingHole

H3

MountingHole

H4

MountingHole

Sheet: /

File: IoT12.sch

Title: IoT12–hardware

Size: A4

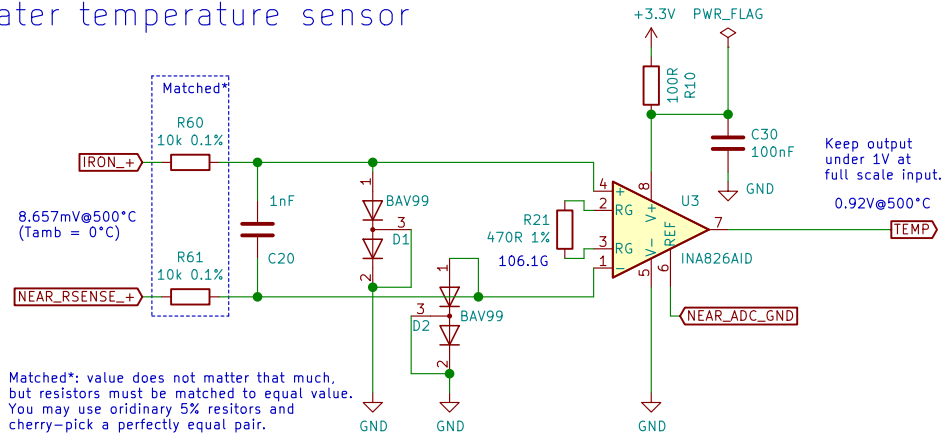
Date: 2021–03–12

KiCad E.D.A. kicad (5.1.9)–1

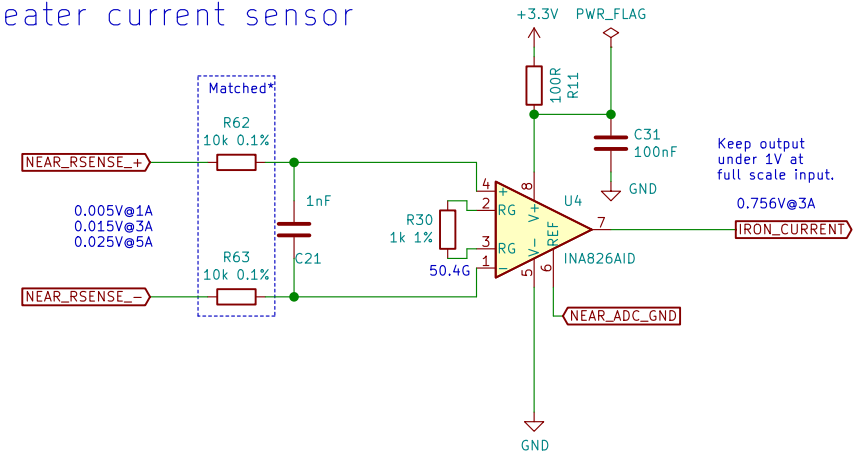
Rev: V2.1

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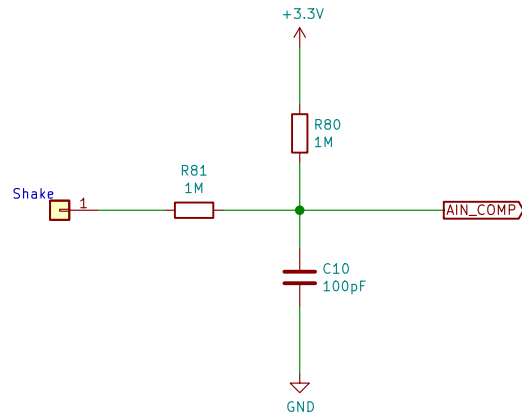
## Heater temperature sensor



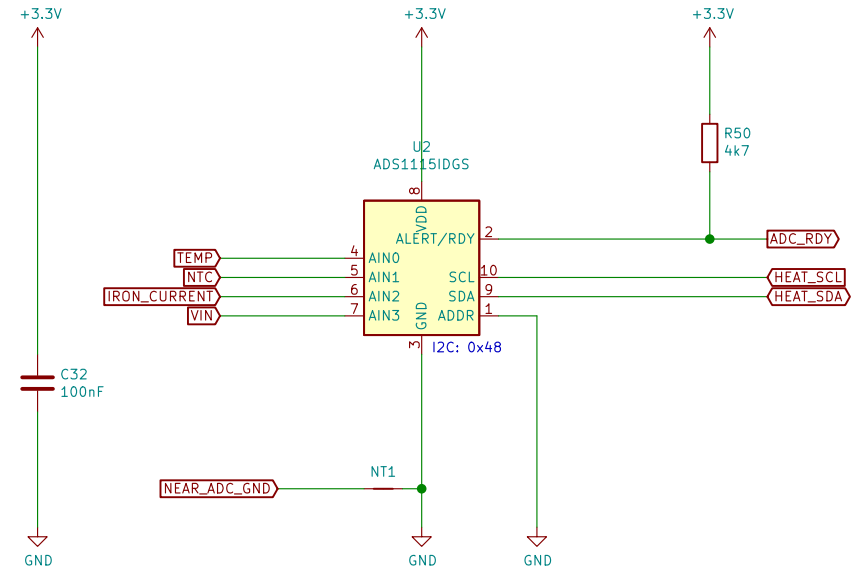
## Heater current sensor



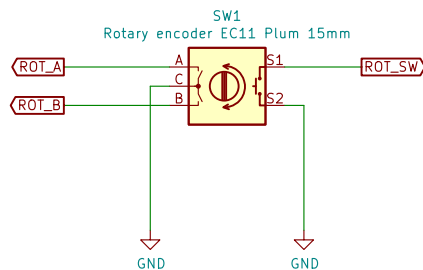
## Tilt switch sensor as shake sensor



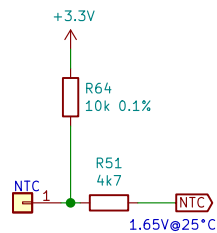
## External 16b I2C ADC



## User input



## Handle NTC



Sheet: /Input/  
File: Input.sch

**Title: IoT12-hardware input and sensors**

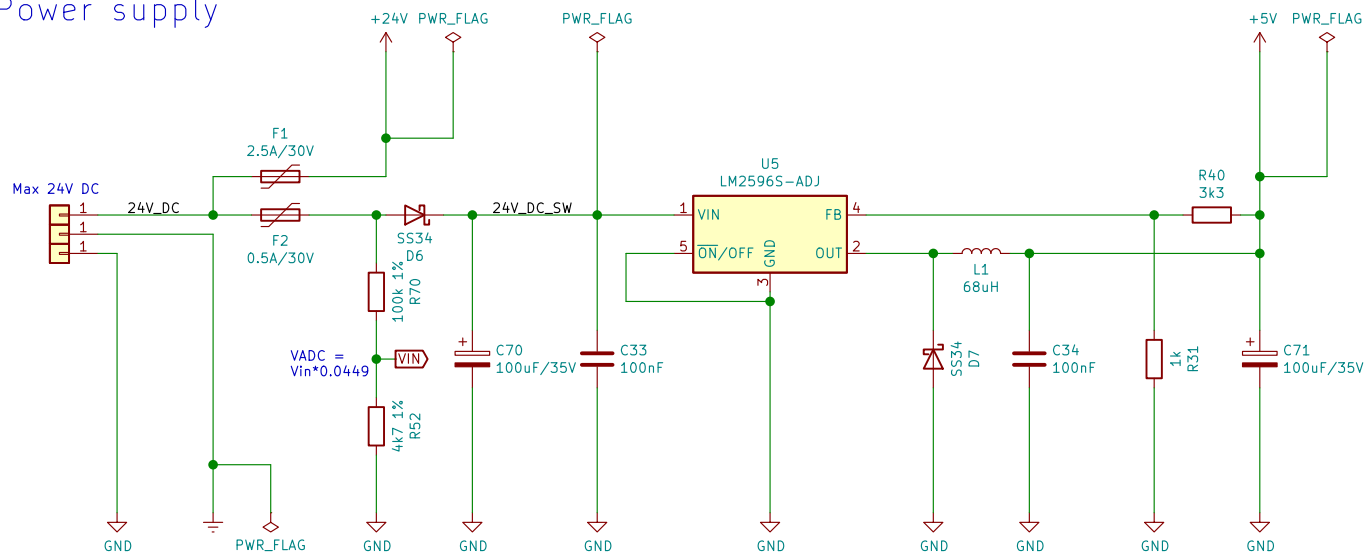
Size: A4 Date: 2021-03-12

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

Rev: V2.1

Id: 2/5

# Power supply



Sheet: /Power/  
File: Power.sch

**Title: IoT12-hardware power supply**

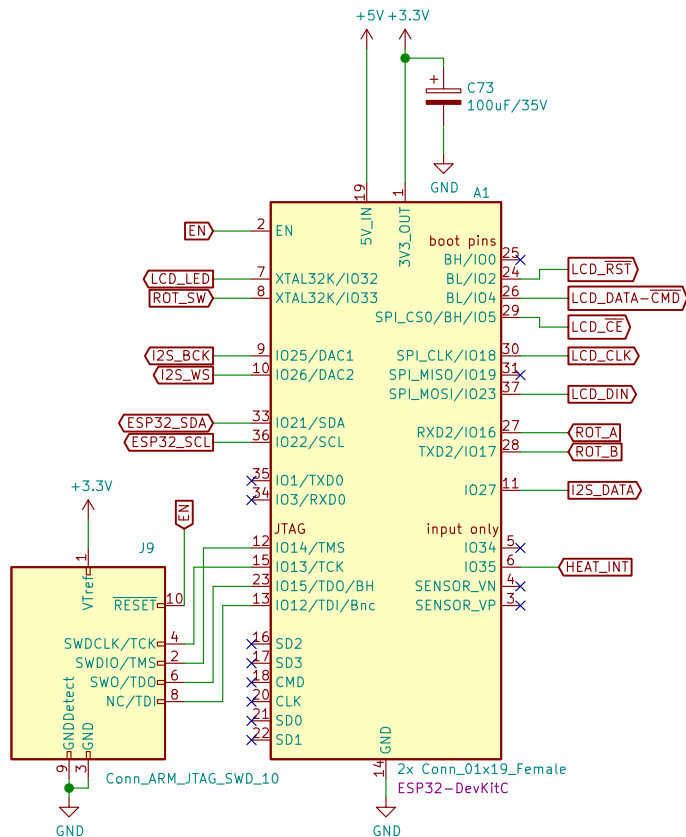
Size: A4 Date: 2021-03-12

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

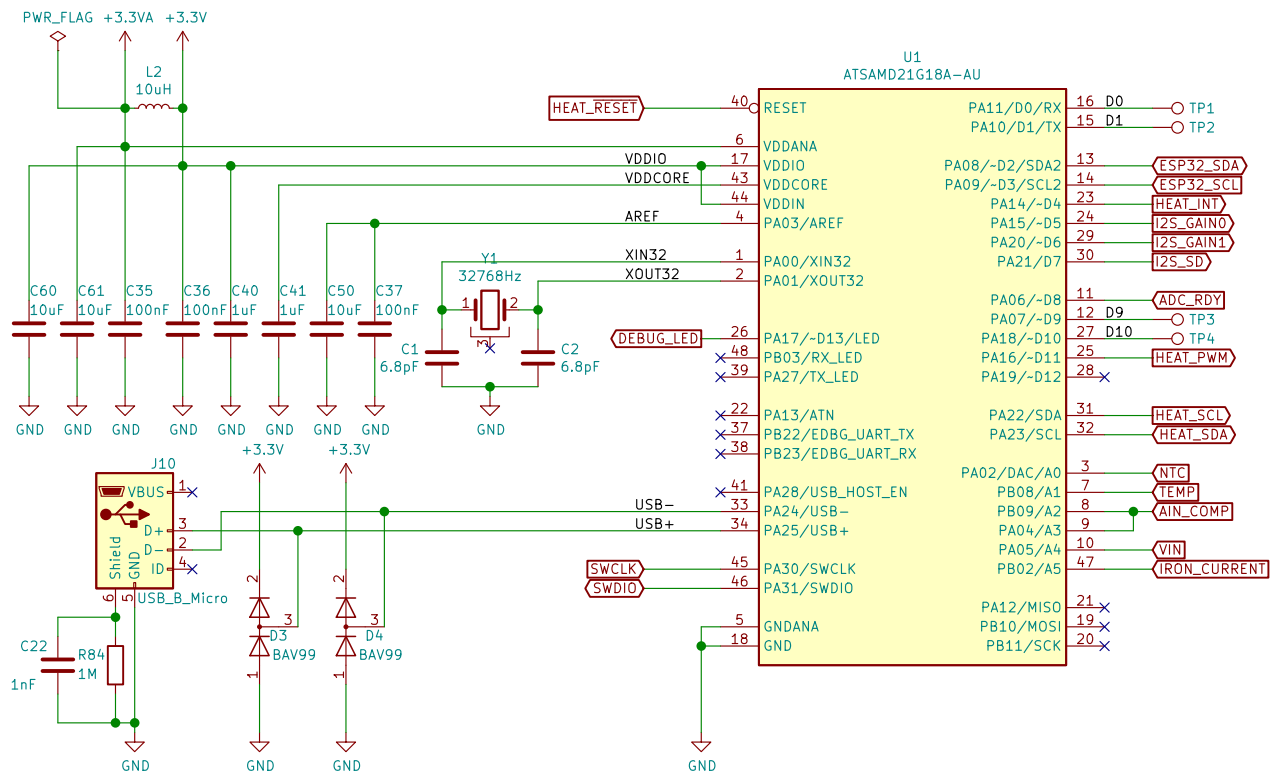
**Rev: V2.1**

Id: 3/5

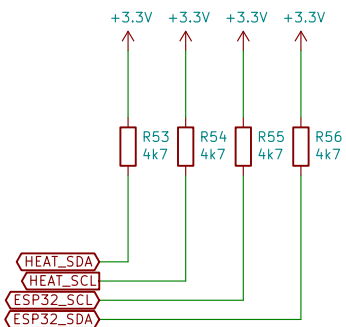
## ESP32 wireless module



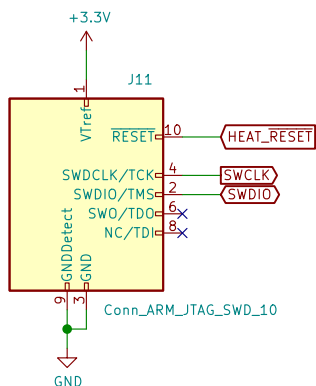
## Heat controller



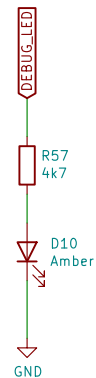
## The pull is strong



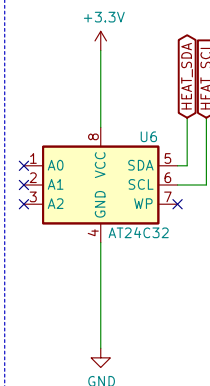
## Heat controller SWD



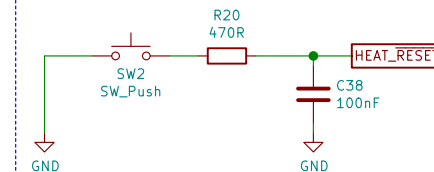
## Debug LED



## EEPROM



## Heat controller reset



Sheet: /Brain/  
File: Brain.sch

**Title: IoT12-hardware brain**

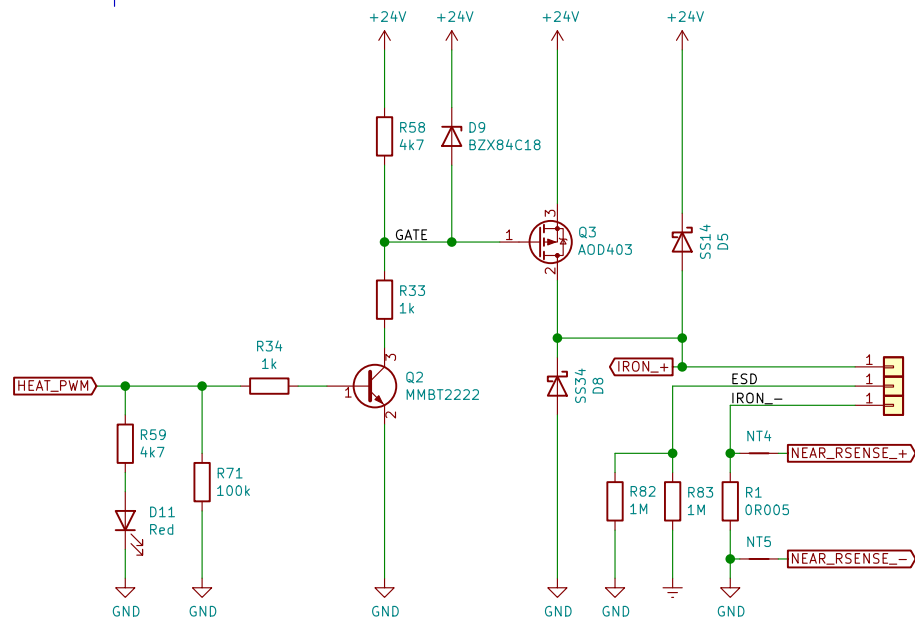
Size: A4 Date: 2021-03-12

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

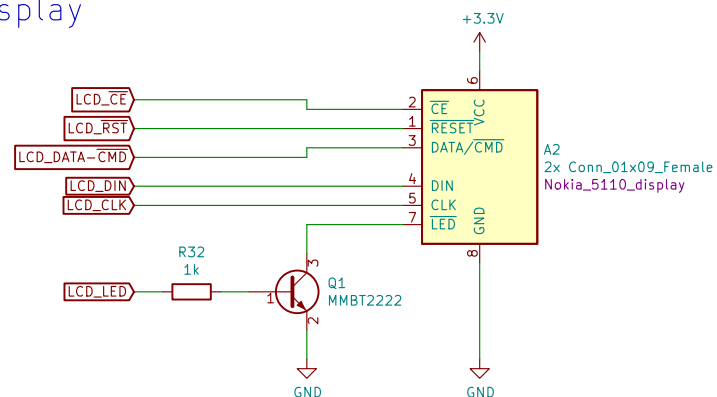
**Rev: V2.1**

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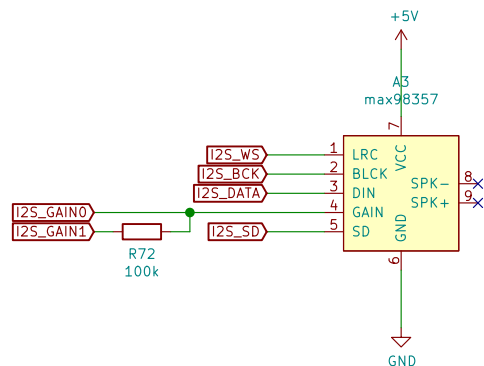
Heater power



Display



Bleep bloop module



Sheet: /Output/  
File: Output.sch

**Title: IoT12-hardware output**

Size: A4	Date: 2021-03-12
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