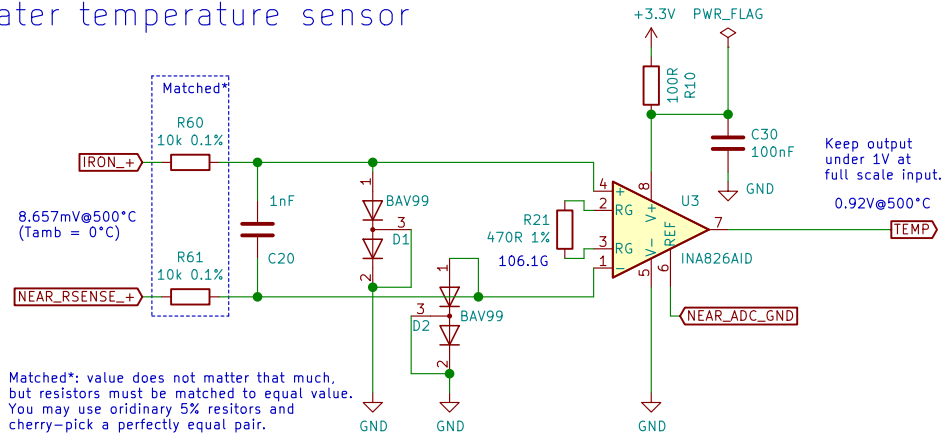


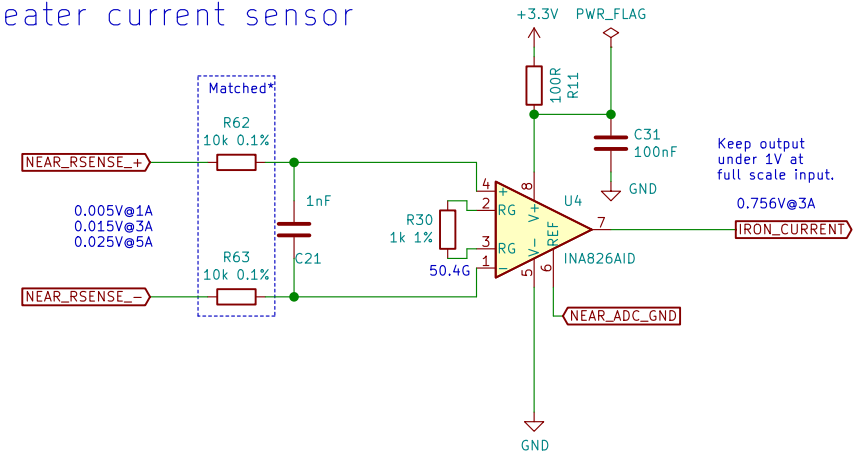
	1	2	3	4	5	6
A	<div>Sheet: Power</div> <div>File: IoT12 Control Board Power.sch</div>					A
	<div>Sheet: Input</div> <div>File: IoT12 Control Board Input.sch</div>					
B	<div>Sheet: Brain</div> <div>File: IoT12 Control Board Brain.sch</div>					B
	<div>Sheet: Output</div> <div>File: IoT12 Control Board Output.sch</div>					
C						C
D	<div> <div>H1</div> <div>MountingHole</div> </div> <div> <div>H2</div> <div>MountingHole</div> </div> <div> <div>H3</div> <div>MountingHole</div> </div> <div> <div>H4</div> <div>MountingHole</div> </div>					D
	1	2	3	4	5	6

Sheet: /		
File: IoT12 Control Board.sch		
Title: IoT12–hardware		
Size: A4	Date: 2021–09–12	Rev: V2.1
KiCad E.D.A. kicad (5.1.10)–1		Id: 1/5

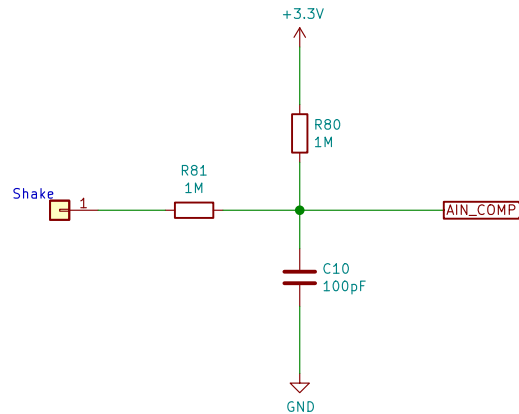
Heater temperature sensor



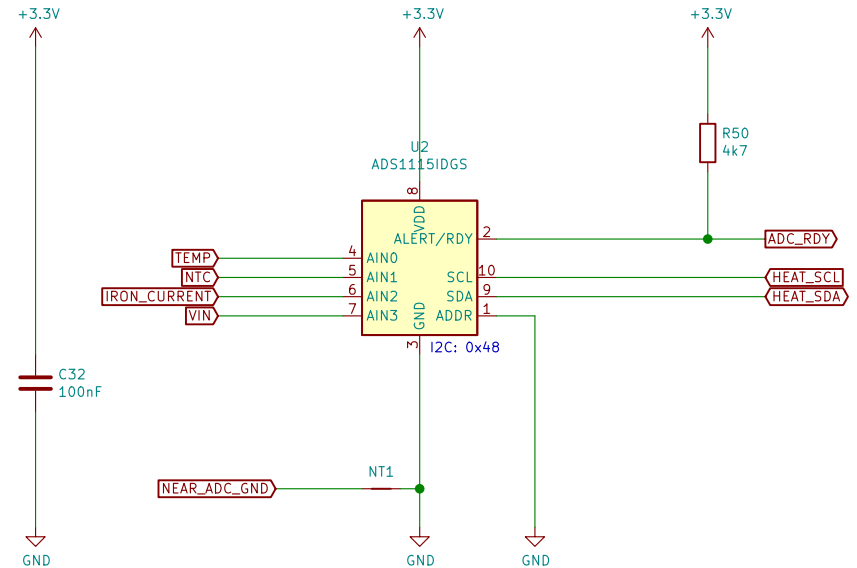
Heater current sensor



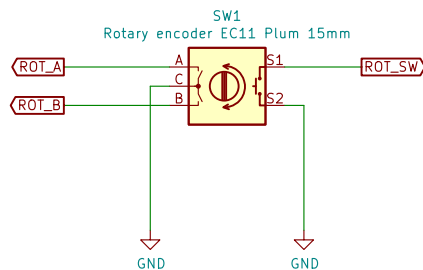
Tilt switch sensor as shake sensor



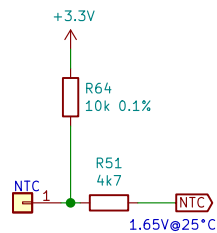
External 16b I2C ADC



User input



Handle NTC



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

Title: IoT12-hardware input and sensors

Size: A4 Date: 2021-09-12

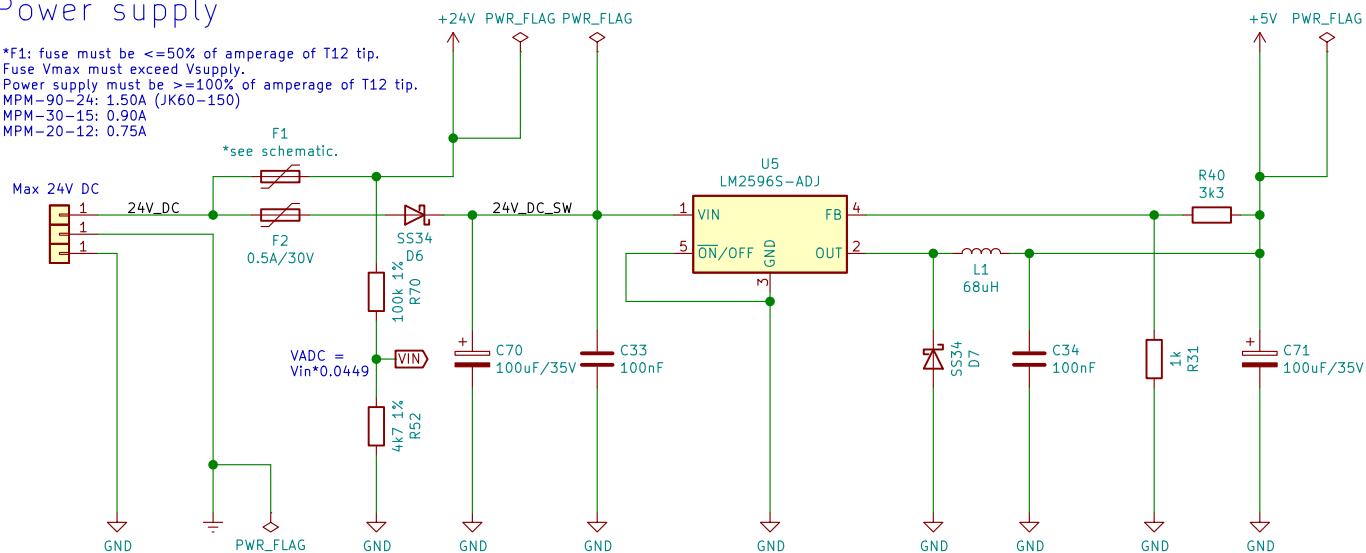
KiCad E.D.A. kicad (5.1.10)-1

Rev: V2.1

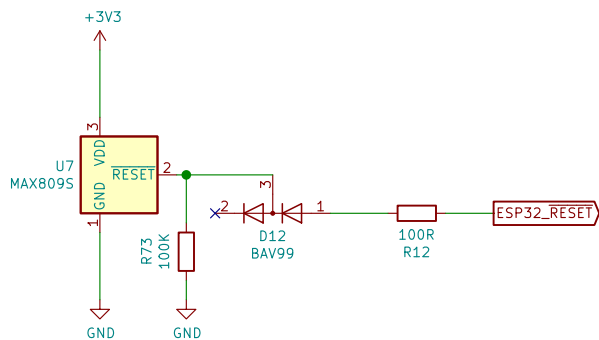
Id: 2/5

Power supply

*F1: fuse must be <=50% of amperage of T12 tip.
Fuse Vmax must exceed Vsupply.
Power supply must be >=100% of amperage of T12 tip.
MPM-90-24: 1.50A (JK60-150)
MPM-30-15: 0.90A
MPM-20-12: 0.75A



Voltage monitor



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

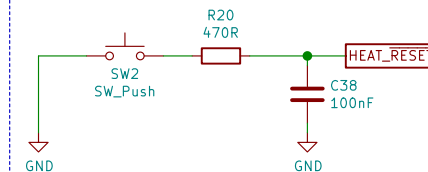
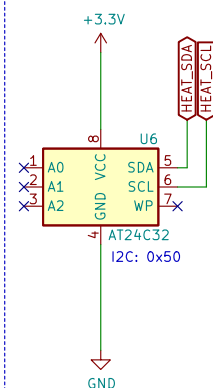
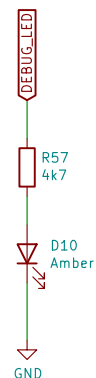
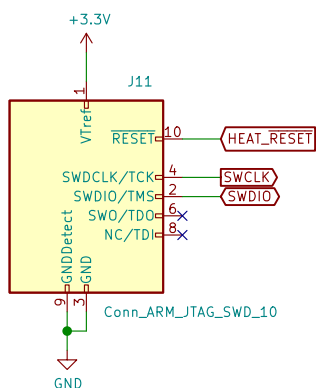
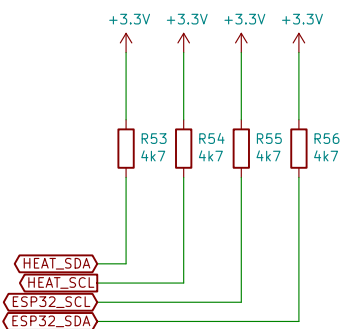
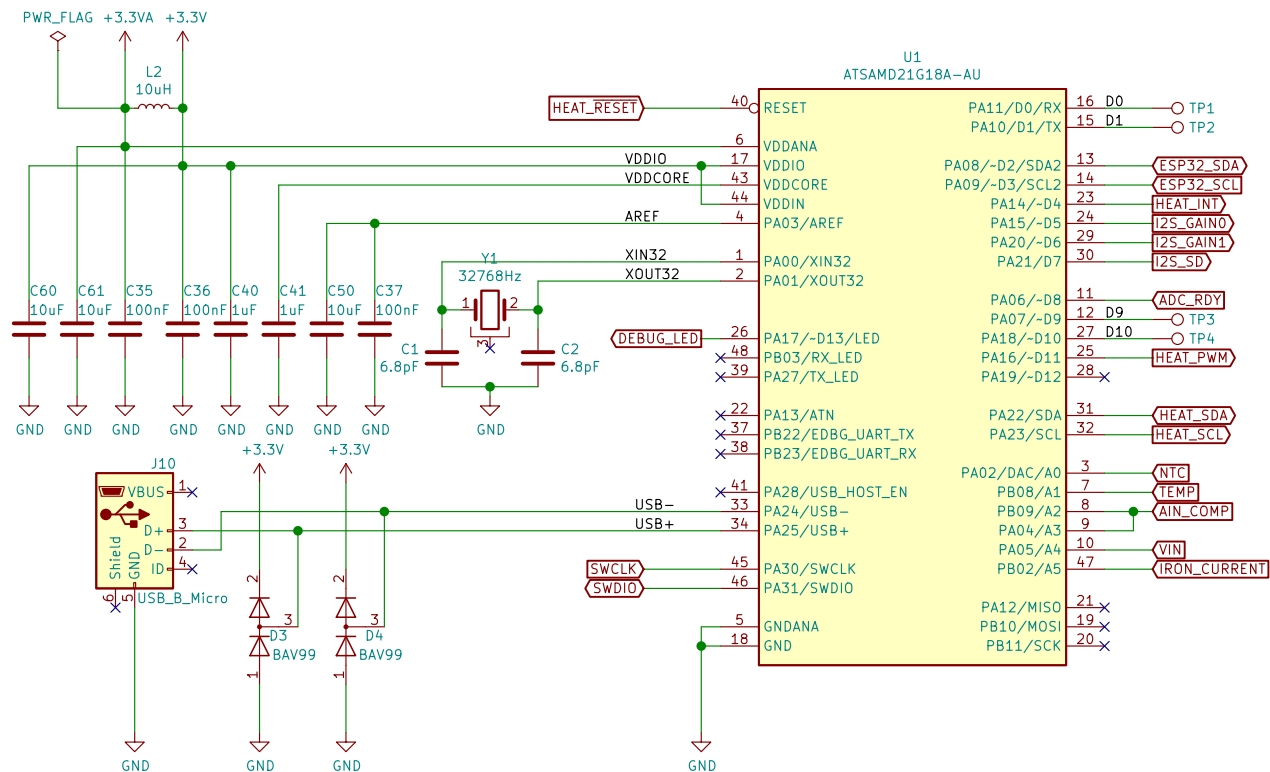
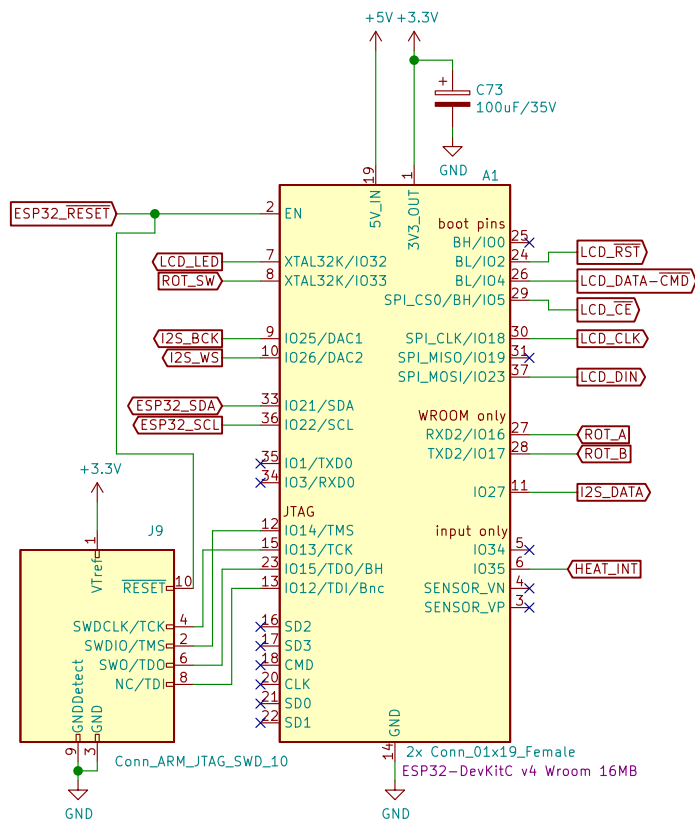
Title: IoT12-hardware power supply

Size: A4 Date: 2021-09-12

KiCad E.D.A. kicad (5.1.10)-1

Rev: V2.1

Id: 3/5



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

Title: IoT12—hardware brain

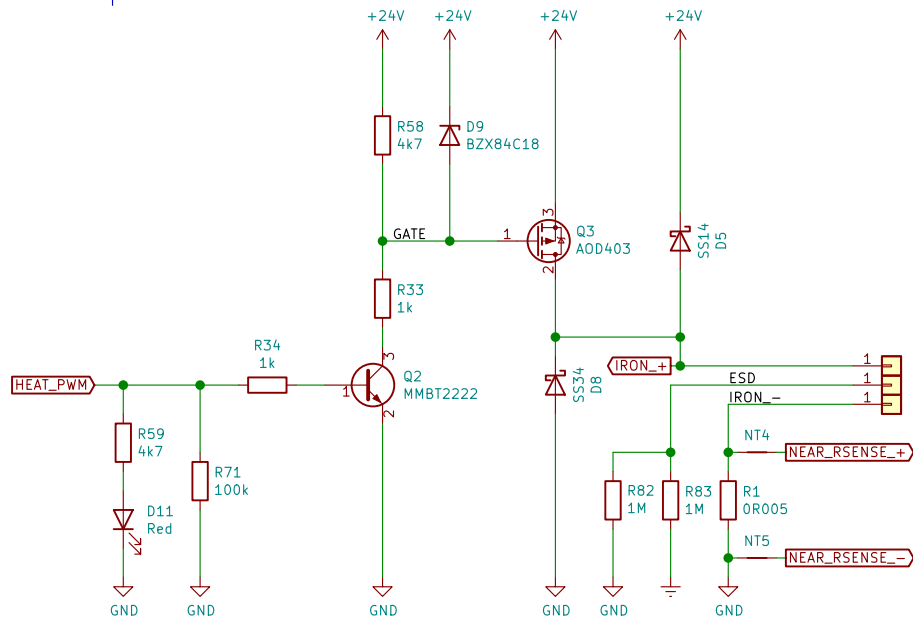
Size: A4	Date: 2021-09-12
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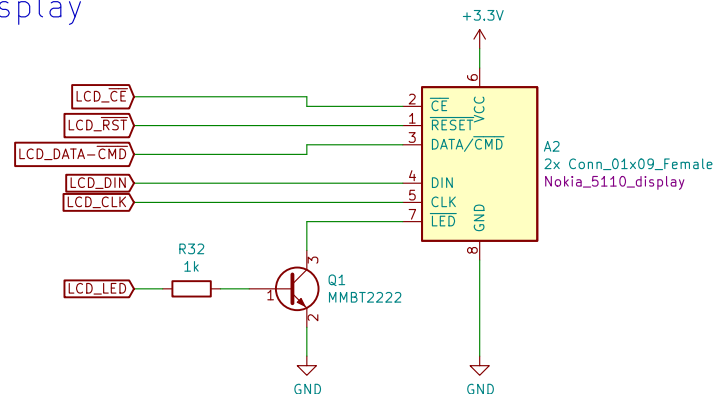
Rev: V2.1

Id: 4/5

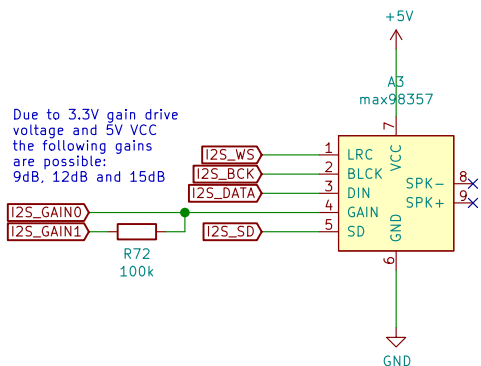
Heater power



Display



Bleep bloop module



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

Title: IoT12-hardware output

Size: A4 Date: 2021-09-12

KiCad E.D.A. kicad (5.1.10)-1

Rev: V2.1

Id: 5/5