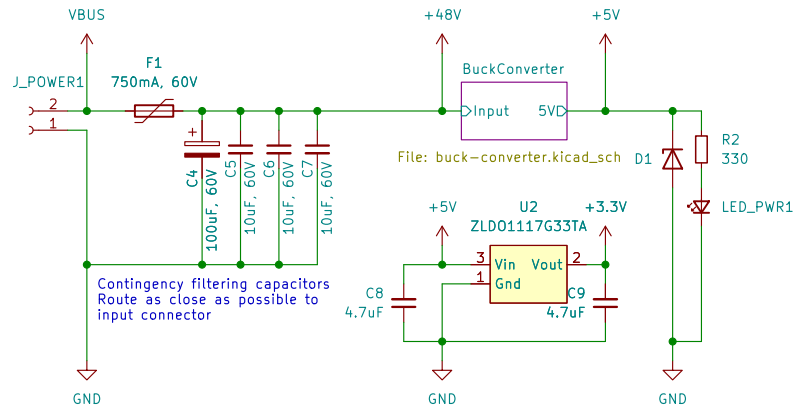
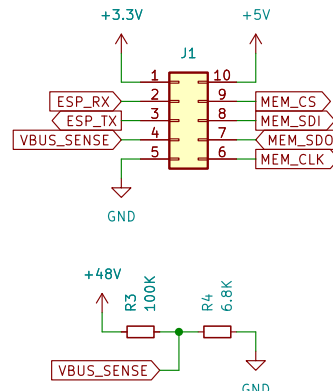


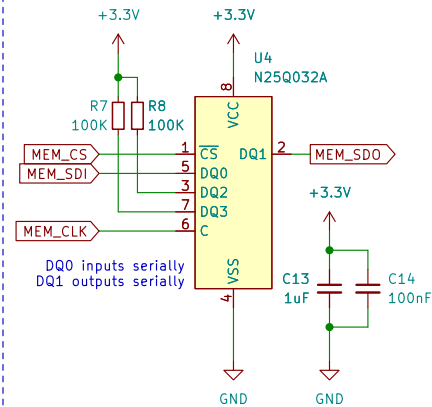
Power



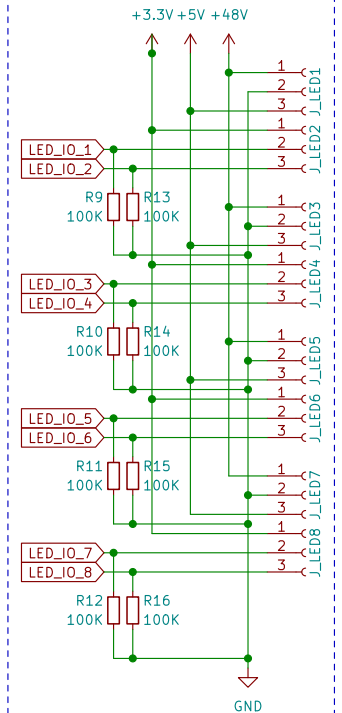
Debug



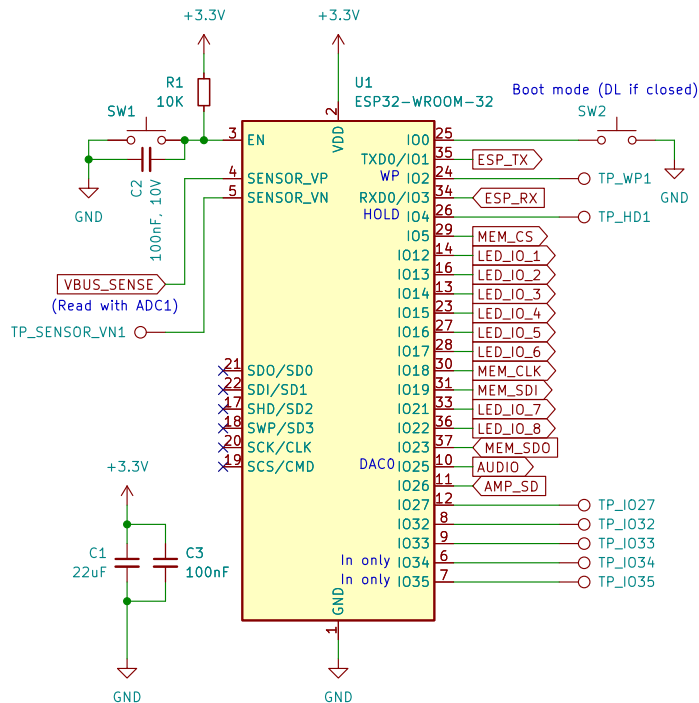
Flash Memory (4MB)



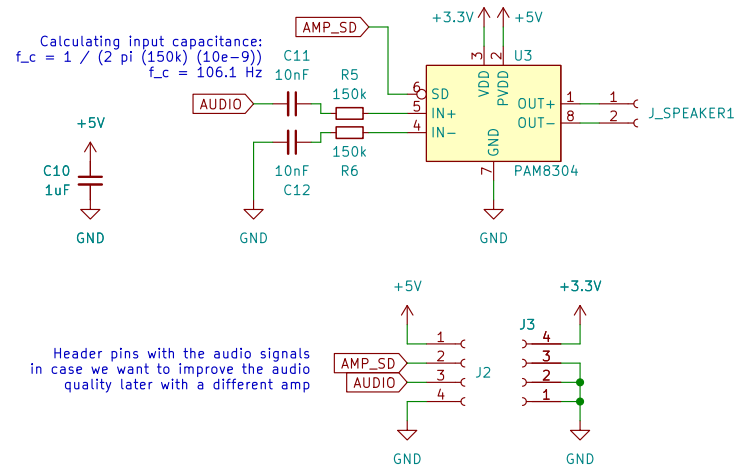
LED Connection



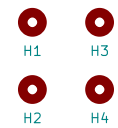
Smarts



Audio Amp



Mechanicals



Sheet: /

File: Anchor7.kicad_sch

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Size: A4

Date:

KiCad E.D.A. eeschema (6.0.9-0)

Rev:

Id: 1/2

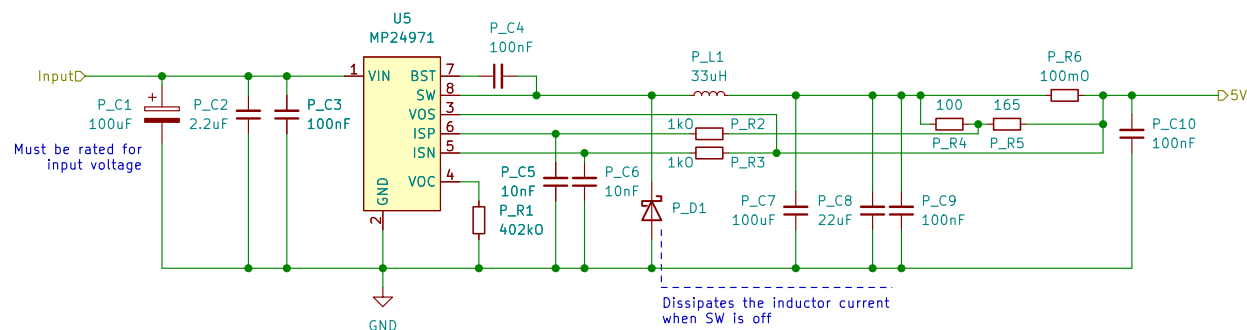
Not using an external VCC bias but here is an explanation of what that would be for:
 [Benefits Using a Buck Converter's External Vcc Bias Pin](https://www.ti.com/lit/an/snva16/snva16.pdf)

$$I_{out} = 100\text{mV} / P_{R6} * (P_{R5} + P_{R7}) / P_{R7}$$

$$I_{out} = 0.1\text{V} / 0.1 * (100 + 165) / 165$$

$$I_{out} = 1.61\text{A}$$

10uH to 47uH with
 125% current rating
 and DC resistance <200mΩ



Sheet: /BuckConverter/		
File: buck-converter.kicad_sch		
Title: Anchor7: Buck Converter to 5V, 1.5A		
Size: A4	Date:	Rev:
KiCad E.D.A. eeschema (6.0.9-0)		Id: 2/2