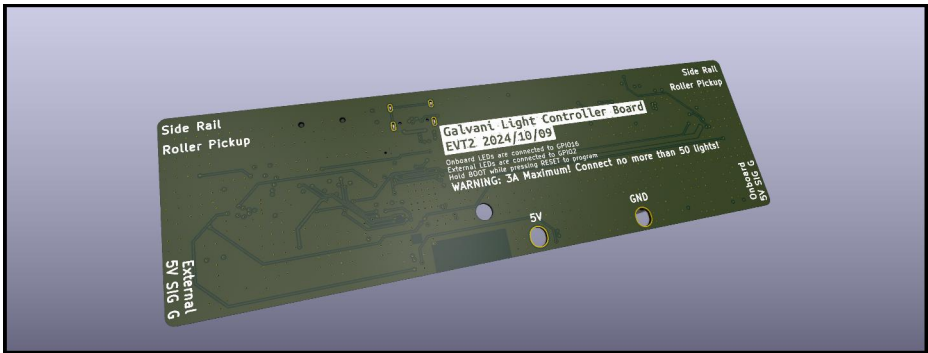
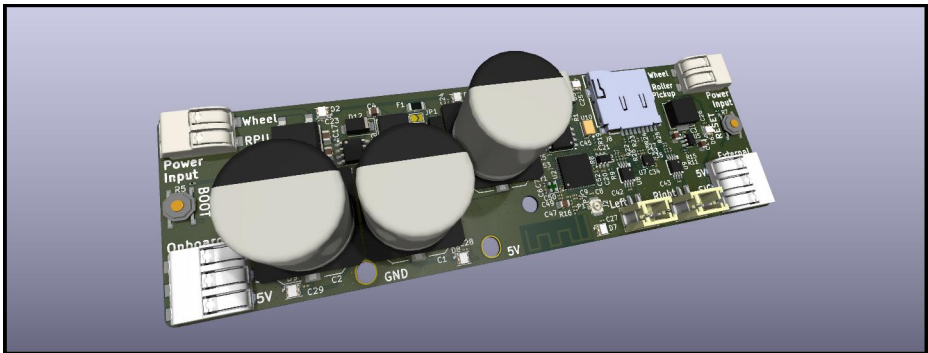


Galvani

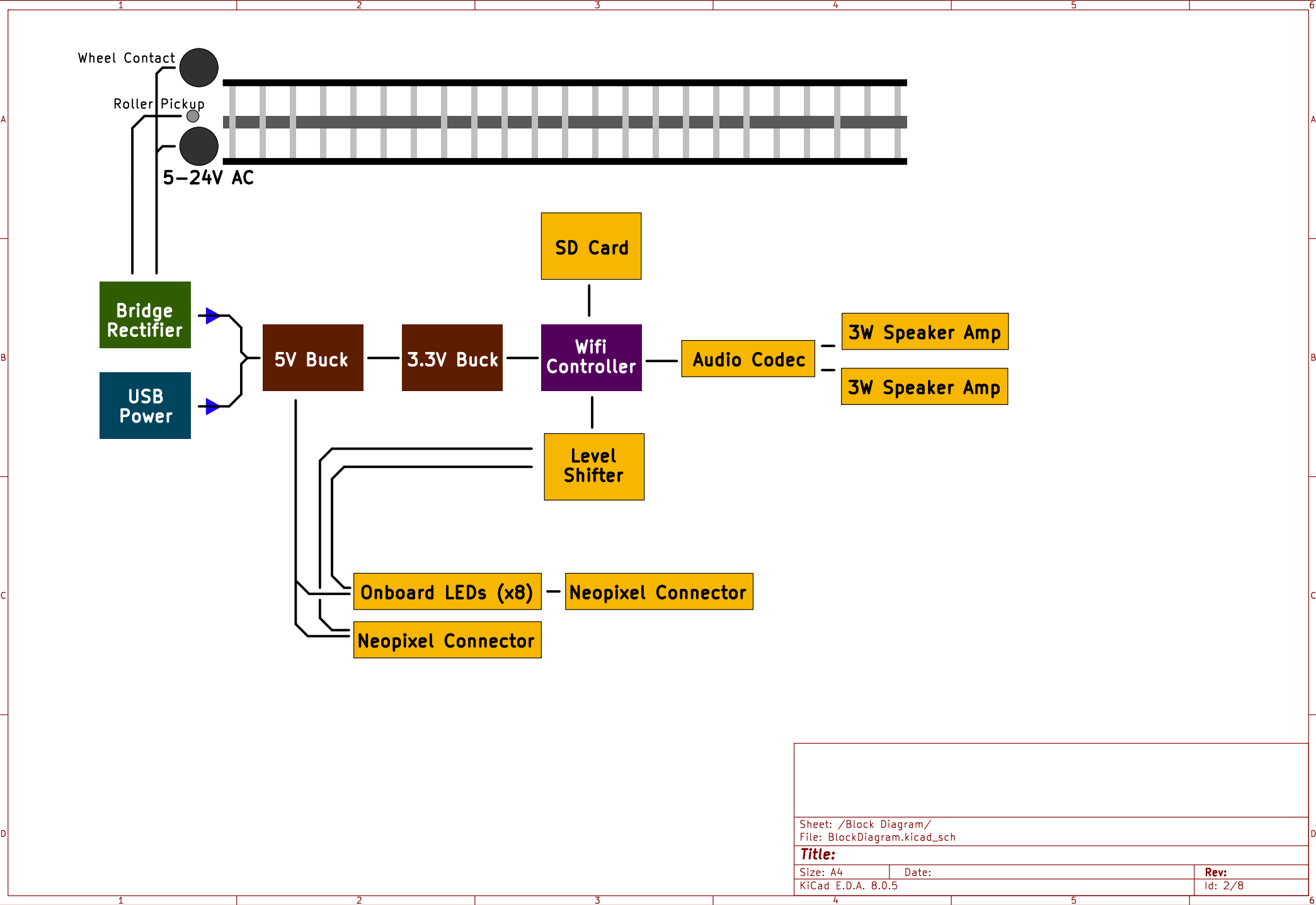
LED Controller for Model Railroads

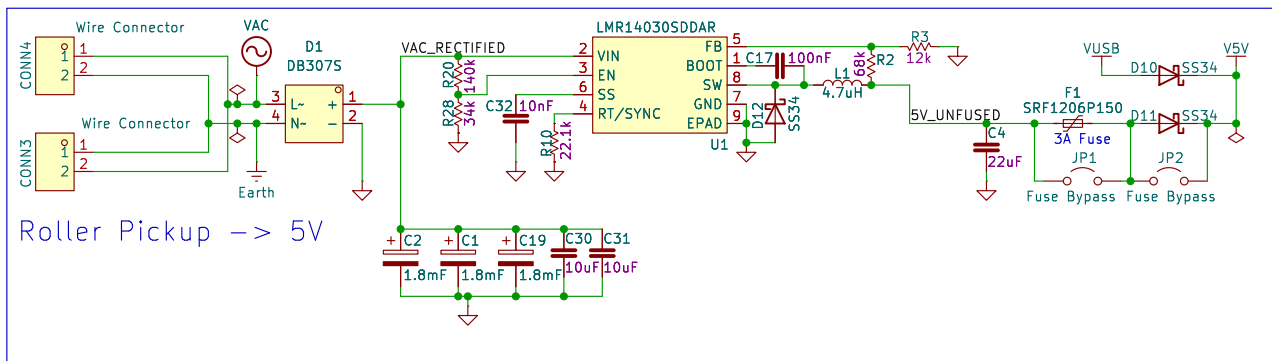
- 2: Block Diagram
- 3: Heirarchy
- 4: Power
- 5: Audio
- 6: CPU
- 7: LEDs
- 8: SD Card

Default SSID: WLED
Default Password: wled1234
Scan to connect:



Sheet: /	
File: Galvani.kicad_sch	
Title: Galvani	
Size: A4	Date: 2024-10-13
KiCad E.D.A. 8.0.5	Rev: EVT2
	Id: 1/8



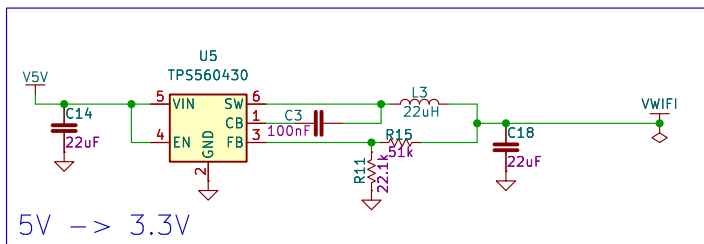


VSTART=6.0 V
VSTOP=5.6 V
VEN=1.2 V
IEN=0.000001 A
IHYS=0.0000036 A

$$R_{ENT} = \frac{V_{START} - V_{STOP}}{I_{HYS}} = 110k$$

$$R_{ENB} = \frac{V_{EN}}{\frac{V_{START} - V_{EN}}{R_{ENT}} + I_{EN}} = 27k$$

Enable Circuit



Sheet: /Heirarchy/Power/
File: Power.kicad_sch

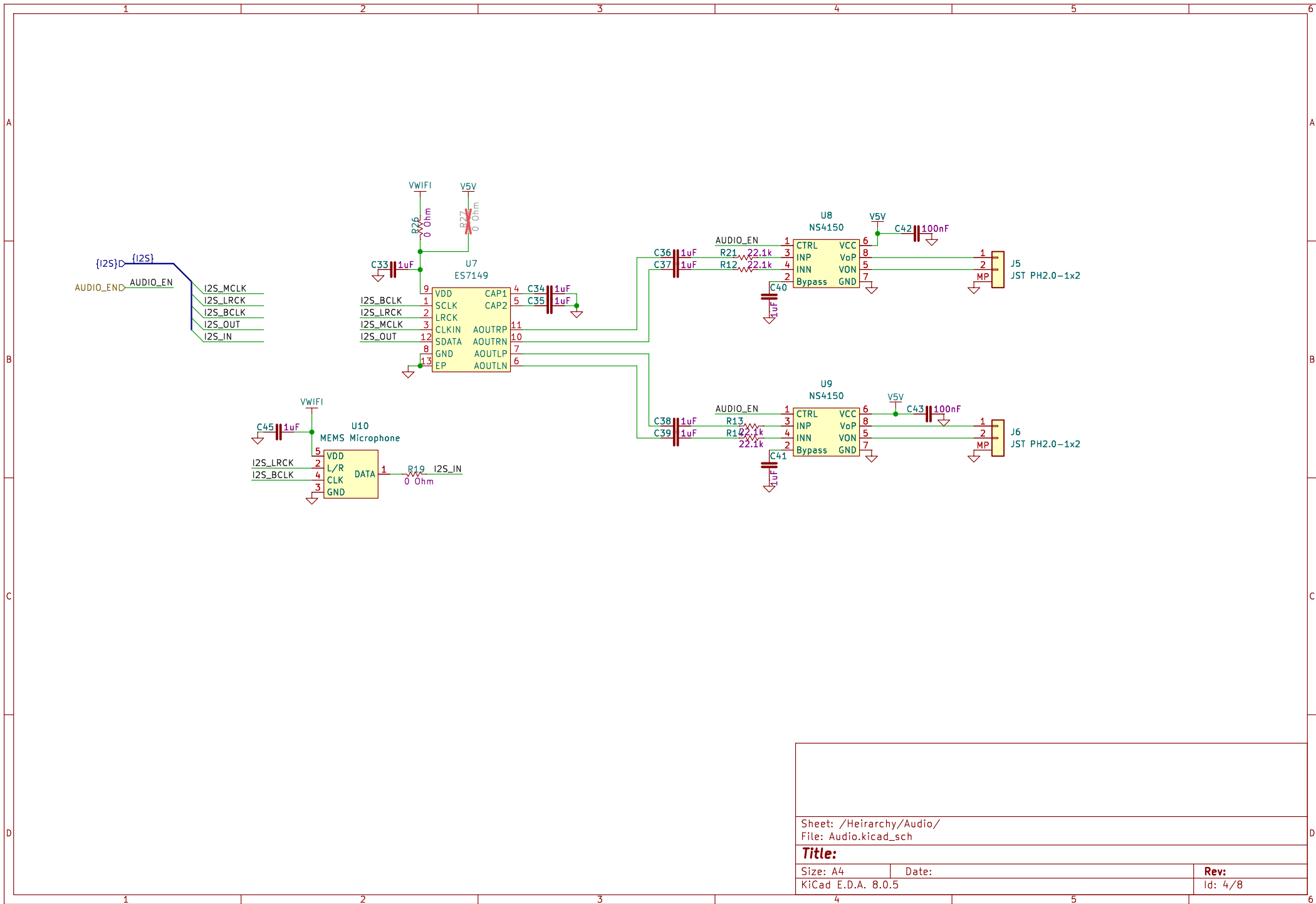
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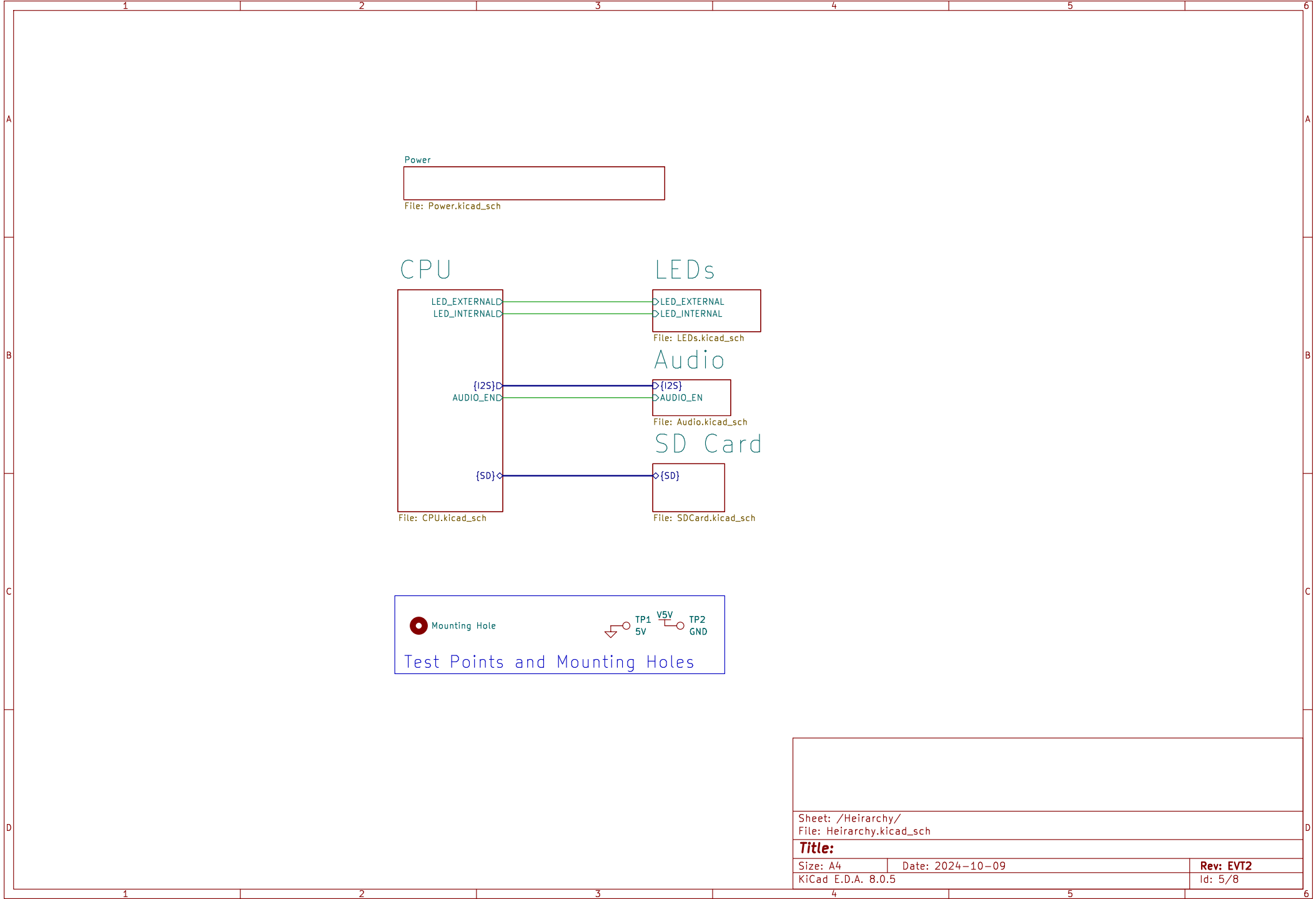
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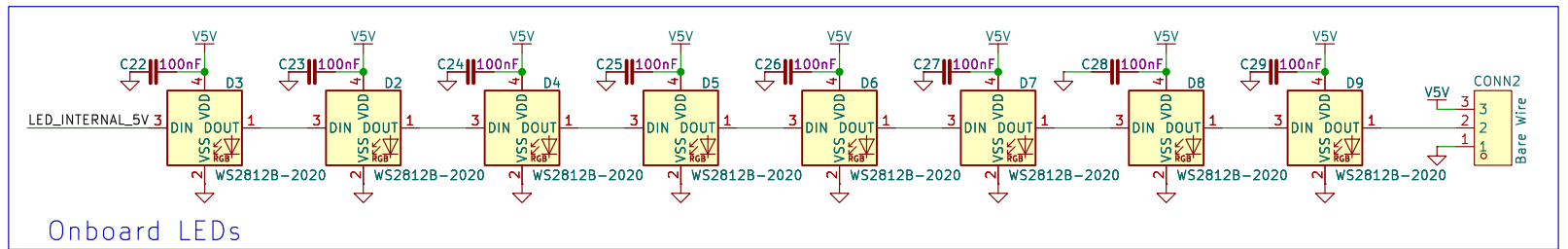
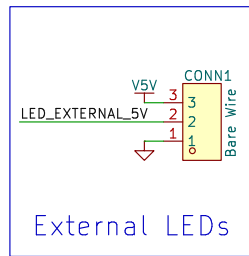
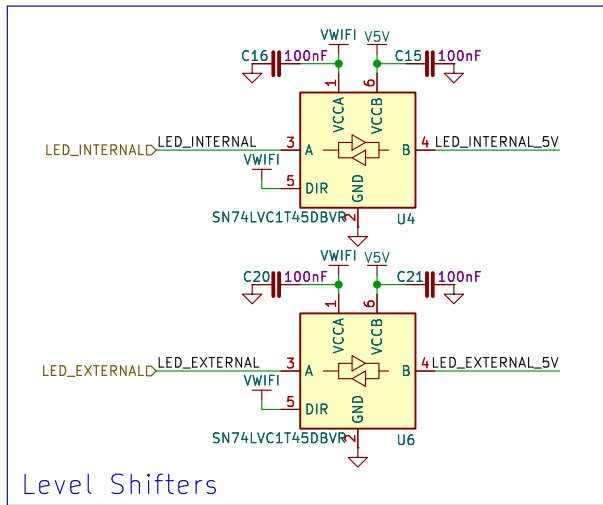
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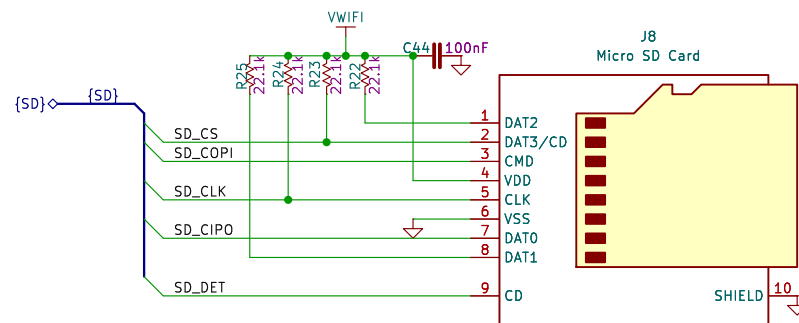
Rev:

Id: 3/8









Sheet: /Heirarchy/SD Card/
File: SDCard.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.5

Id: 8/8