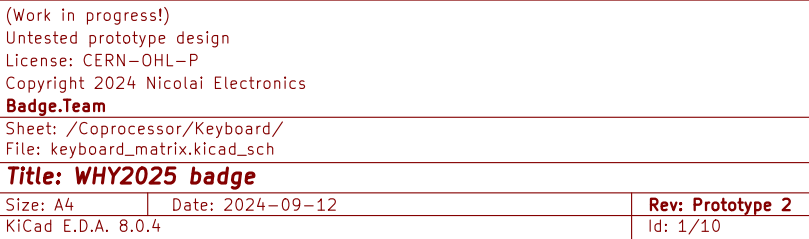
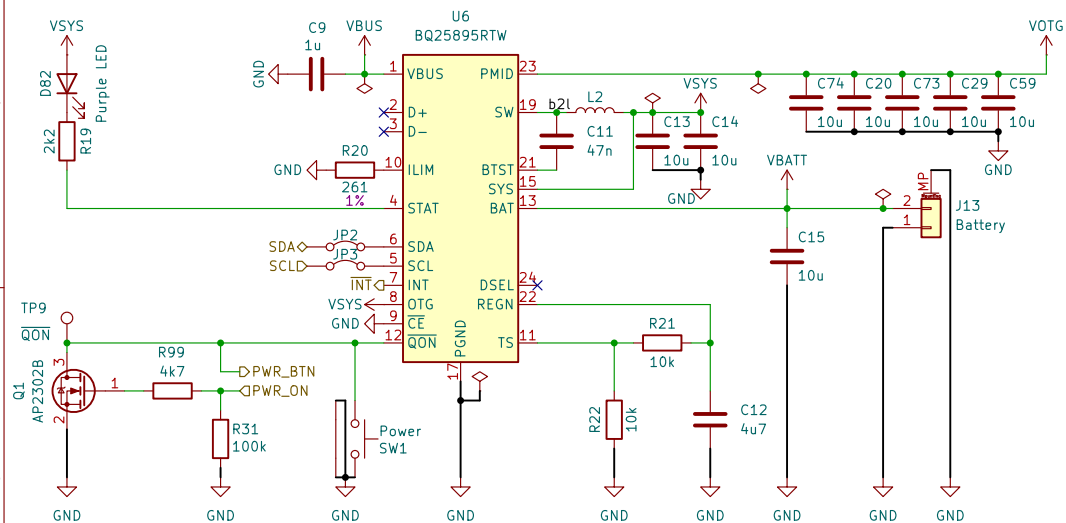


Id: 1/10



## PMIC



Watch out with the I2C bus of this device, wrong configuration can be dangerous.

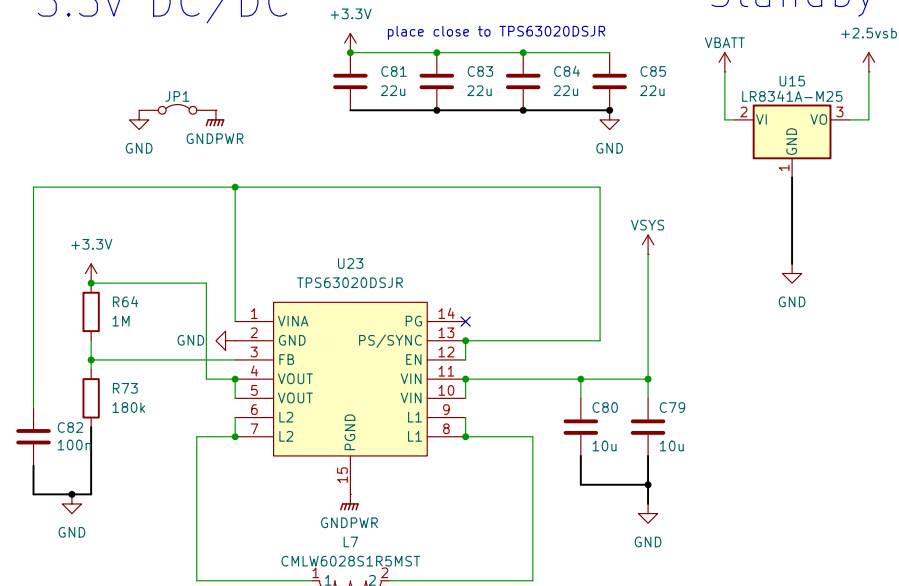
VBUS is the voltage coming from the input USB-C port. This voltage can be 5 up to 14 volts.

VOTG is 5V generated from VBAT or VBUS depending on the power source of the system.

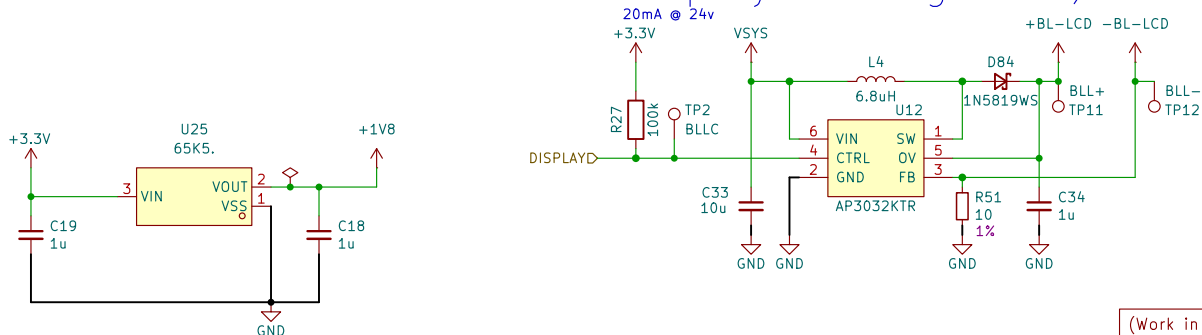
VBATT is connected to the rechargeable battery.

VSYS is an unregulated 3.5 to 4.5V output used to power the DC-DC converters for the rest of the components.

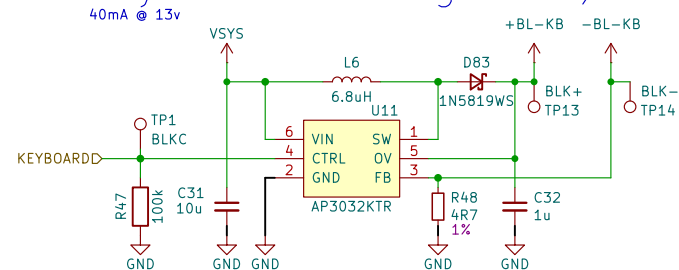
## 3.3v DC/DC



## Display backlight DC/DC



## Keyboard backlight DC/DC



(Work in progress!)

Untested prototype design

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**Badge.Team**

Sheet: /Power/

File: power.kicad\_sch

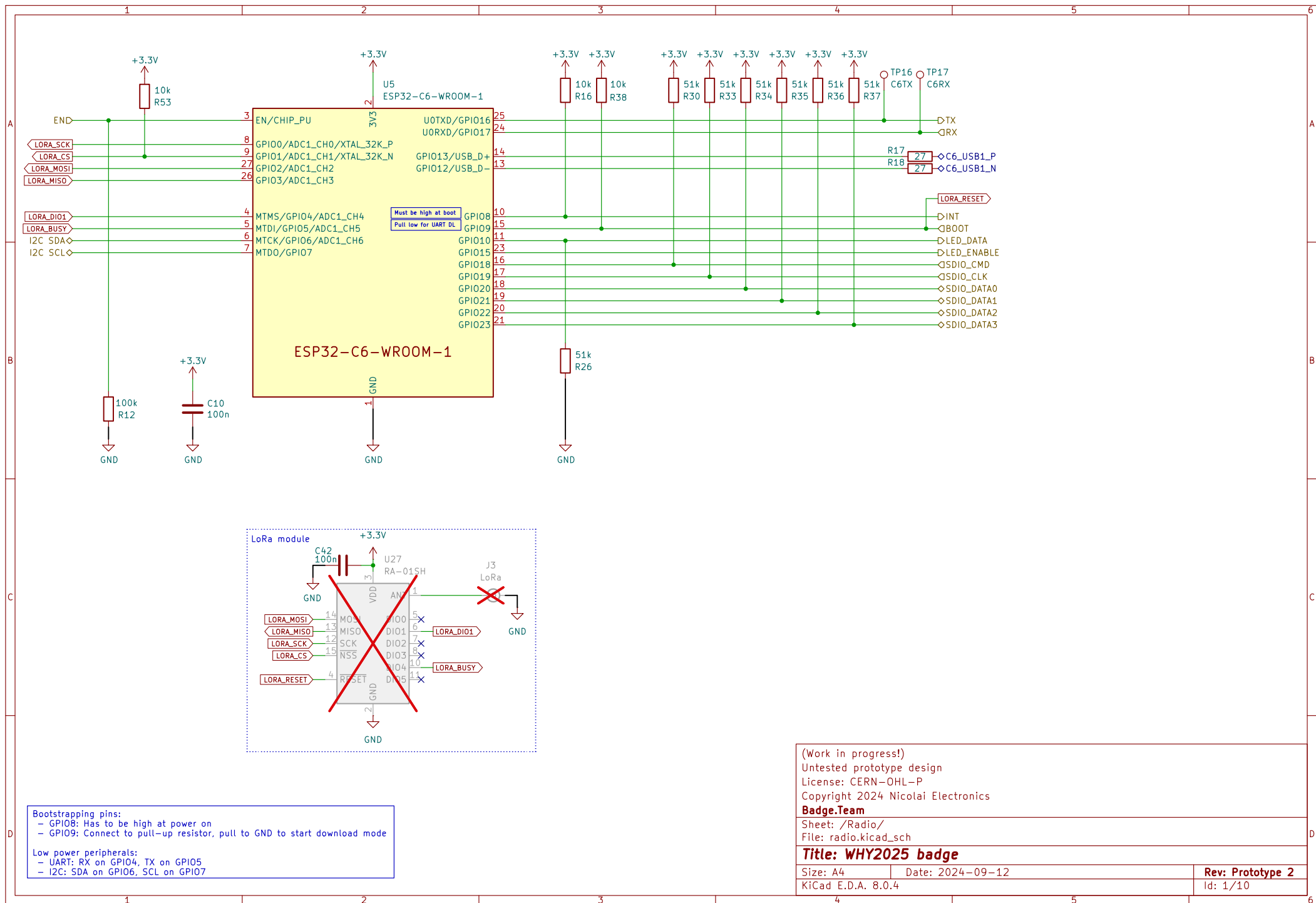
**Title: WHY2025 badge**

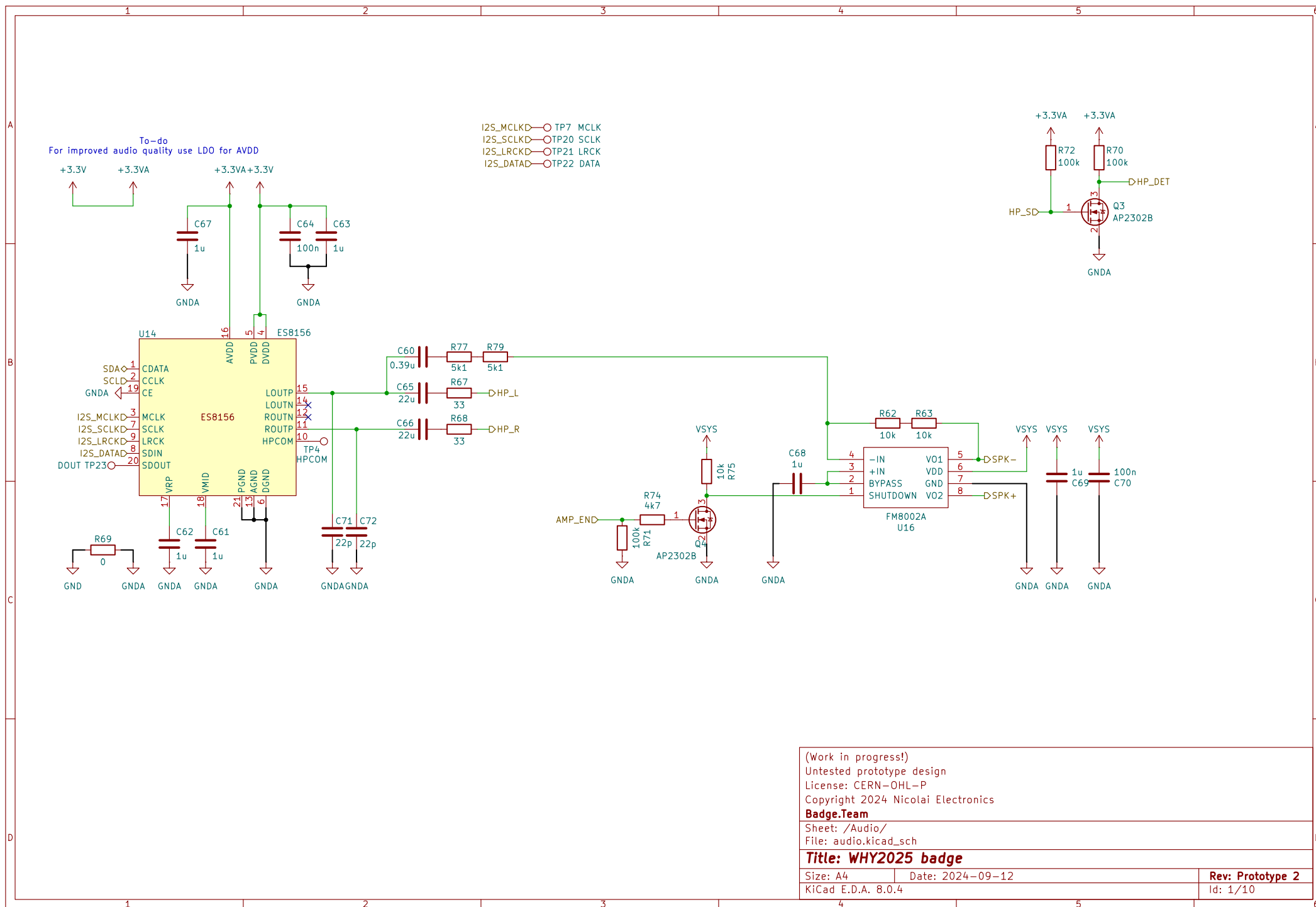
Size: A4 Date: 2024-09-12

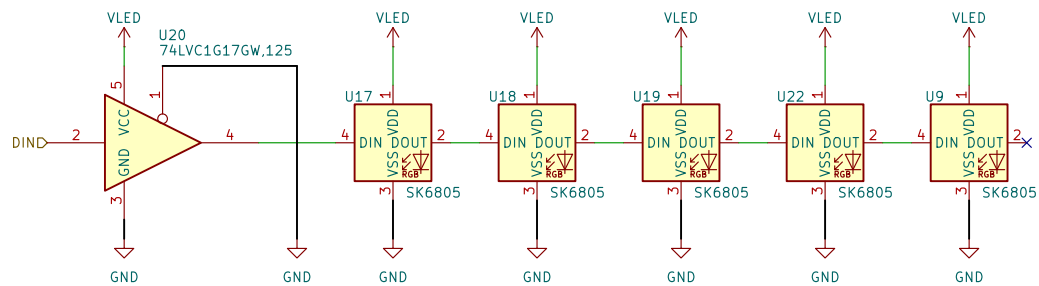
KiCad E.D.A. 8.0.4

**Rev: Prototype 2**

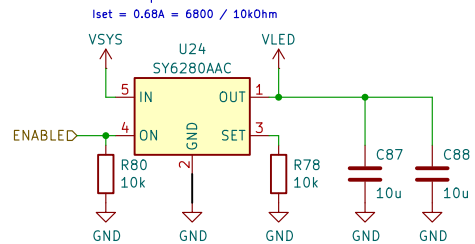
Id: 1/10







### Switched power: Vin for LEDs



(Work in progress!)  
 Untested prototype design  
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**Badge.Team**

Sheet: /LEDs/  
 File: leds.kicad\_sch

**Title: WHY2025 badge**

Size: A4 Date: 2024-09-12

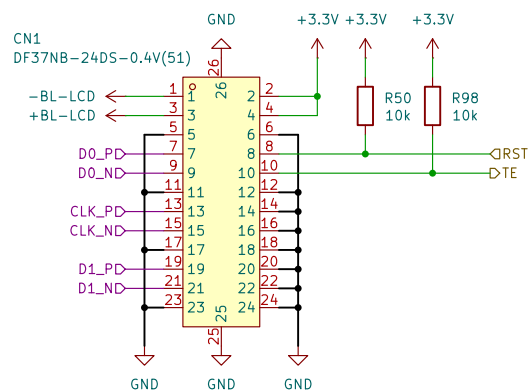
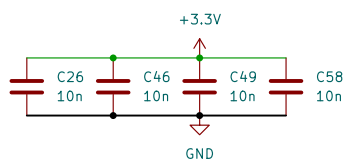
KiCad E.D.A. 8.0.4

**Rev: Prototype 2**

Id: 1/10



In the display datasheet:  
start, top left 1 down to 12  
then, right bottom up 13 to 24.



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**Title: WHY2025 badge**

Rev: Prototype 2

Id: 1/10

