

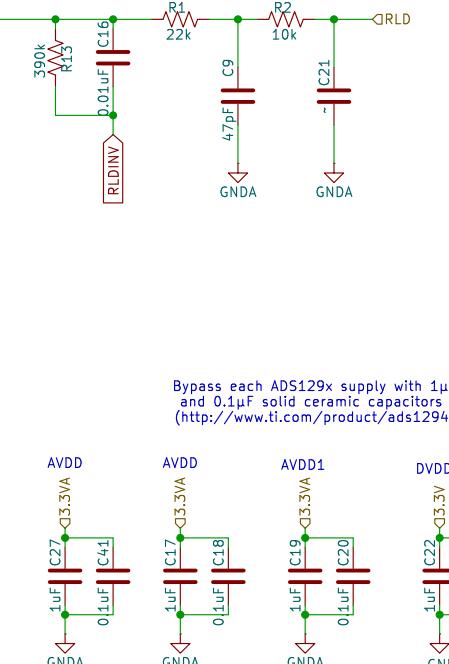
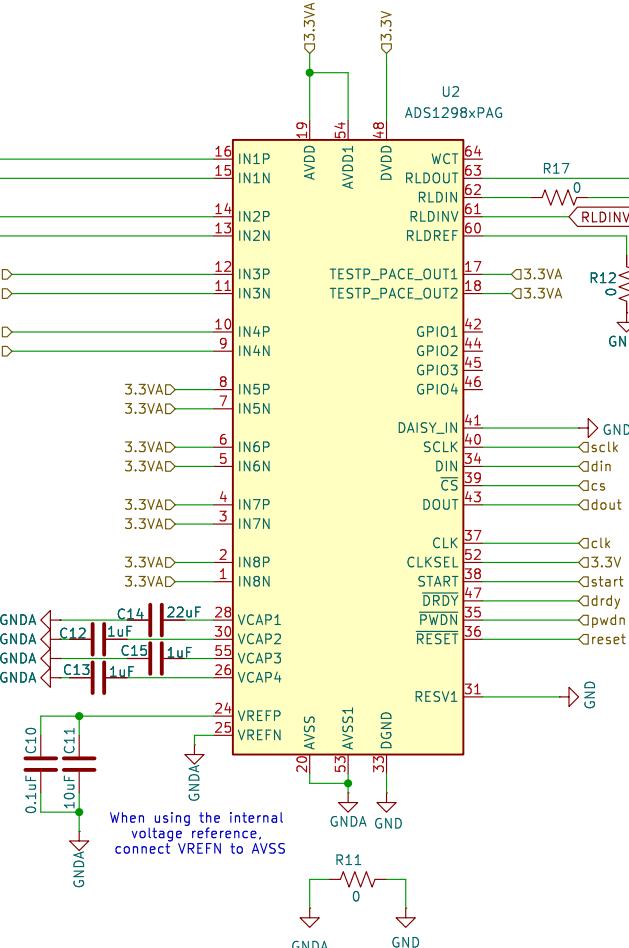
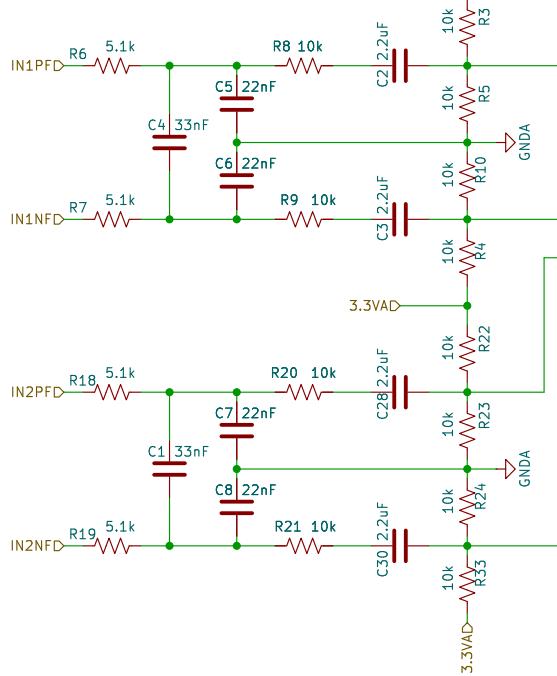
CPU: ESP32-S3 WROOM  
4(8) ADC channels based on ADS1298  
**MIREA**

Sheet: /  
File: myocell\_s3.kicad\_sch

**Title: MYOCELL\_S3: EMG ADC board**

Size: A4 Date: 2025-12-24  
KiCad E.D.A. 9.0.3

Rev: Rev 01  
Id: 1/4



<https://static.chipdip.ru/lib/687/DOC011687749.pdf>  
Analog filter  
ADS1298RECG-FE  
ECG Front-End  
Performance Demonstration Kit

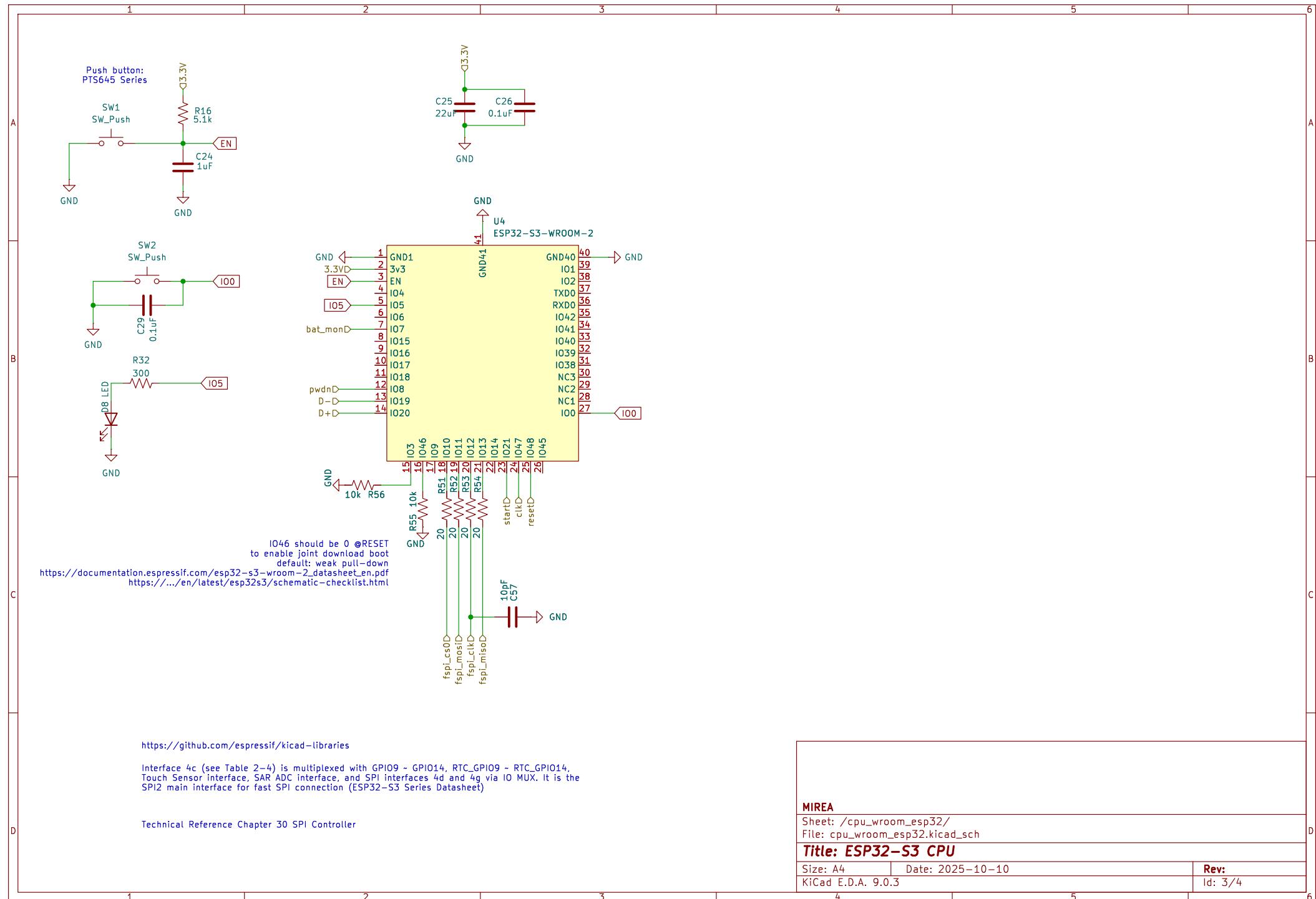
Connect unused pins to AVDD (Analog supply)  
(http://www.ti.com/product/ads1294)

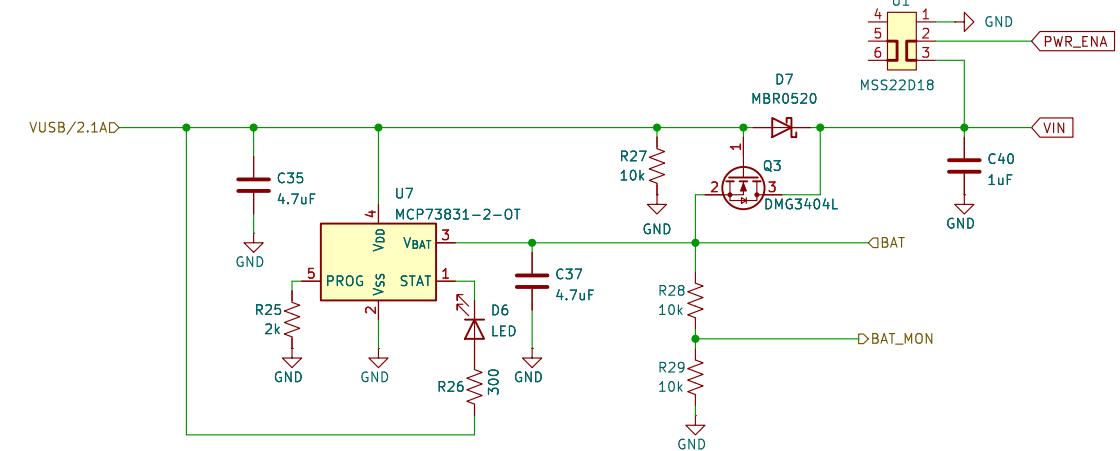
Sheet: /adc\_8/  
File: adc\_8.kicad\_sch

**Title: 8 channel ADC**

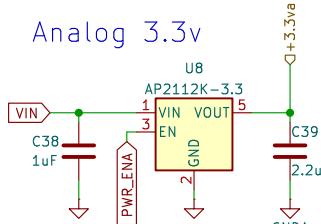
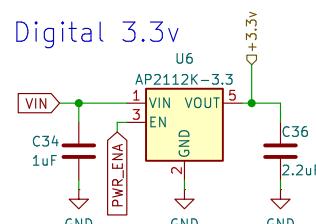
Size: A4 Date: 2024-10-17  
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Rev:  
Id: 2/4





Fast charge current regulation can be scaled by placing a programming resistor (R<sub>PROG</sub>) from the PROG input to V<sub>SS</sub>. The program resistor and the charge current are calculated using the following equation  
 $I_{REG} = 1000V/R_{PROG}$



MIREA/Rf-lab.org

Sheet: /power\_supply/  
File: power\_supply.kicad\_sch

Title: Power supply

Size: A4 Date: 2024-10-17  
KiCad E.D.A. 9.0.3

Rev: 1  
Id: 5/4