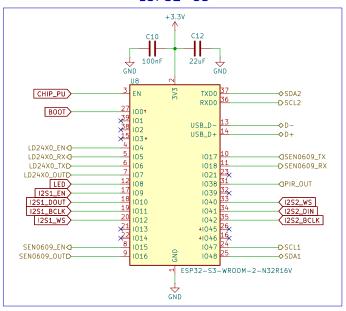
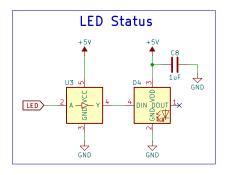
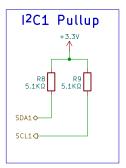
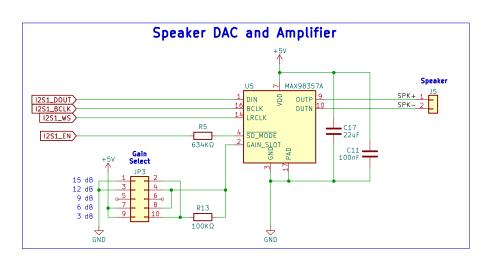


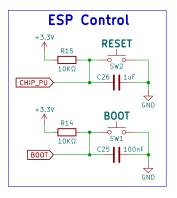
ESP32-S3

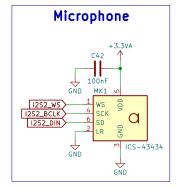


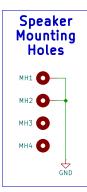






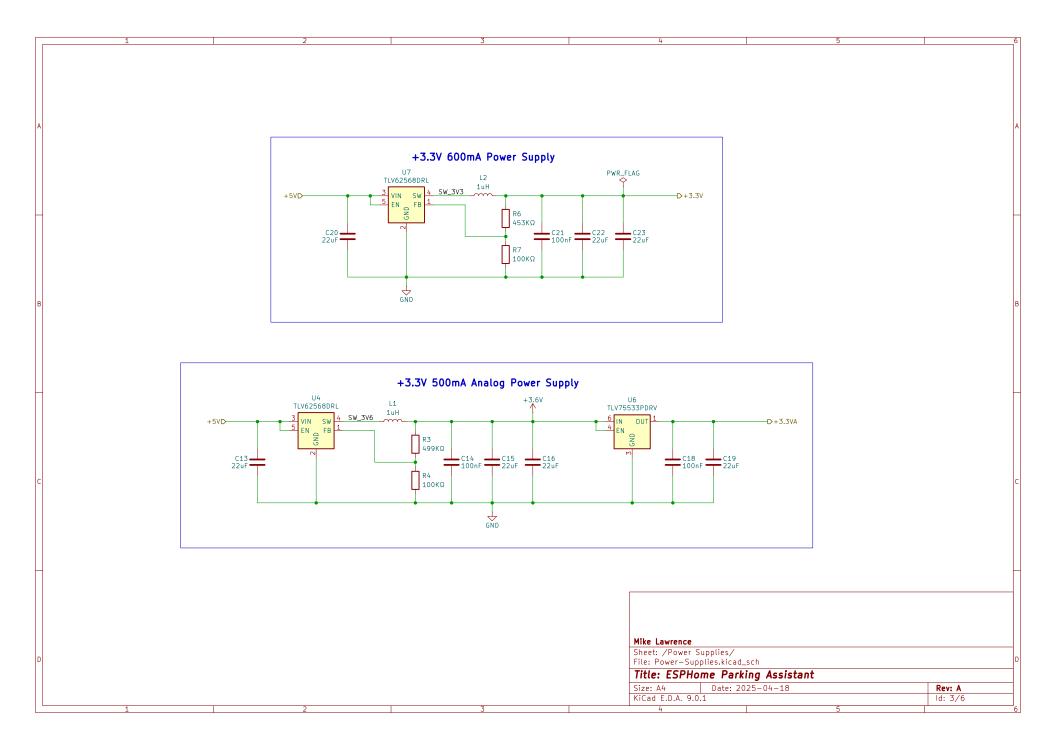




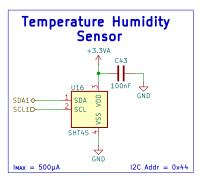


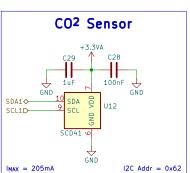
- ESP32-S3 Strapping Pins: GPI00, GPI03, GPI045, GPI046.
 MAX98357A DAC when enabled is configured for stereo data mode.

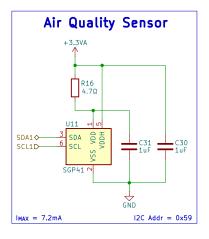
Mike Lawrence Sheet: /ESP32-S3/ File: ESP32.kicad_sch Title: ESPHome Parking Assistant Date: 2025-04-18 Size: A4 Rev: A KiCad E.D.A. 9.0.1 ld: 2/6



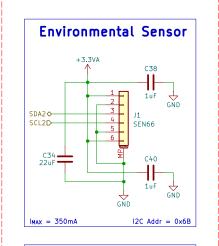
Bath or Kitchen Set

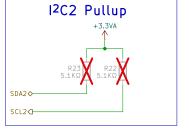






All-In-One Sensor





- 1. Recommend one of two configurations.
 - A. SEN66.
 - B. SHT45, SCD41 and SGP41 for Bath or Kitchen.

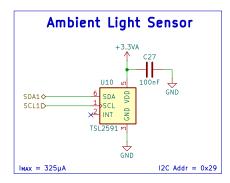
- Temperature & Humidity Sensor can be SHT40, SHT41, or SHT45 for increasing accuracy.
 CO2 (SCD40 or SCD41) measures CO2, Temperature and Humidity.
 Air Quality Sensor (SGP40 or SGP41) measures VOC, NOx. These sensors are self heating and not recommended for measuring room temperature.
 SEN66 measures Temperature, Humidity, CO2, VOC, NOx and PM.

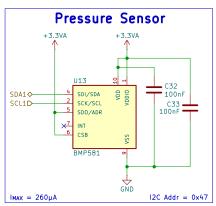
Mike Lawrence

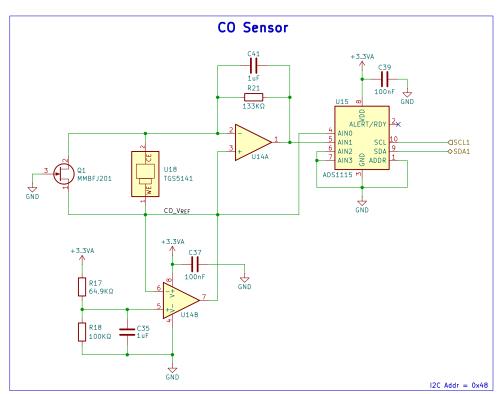
Sheet: /Environmental Sensors 1/ File: Env-Sensors-1.kicad_sch

Title: ESPHome Parking Assistant

Size: A4 Date: 2025-04-18 Rev: A KiCad E.D.A. 9.0.1 ld: 4/6







- 1. Accuracy of CO_VREF not critical. Needs to be around 2V to turn off Q1.
- 2. ADC range 0.512V. 3. Max 1000PPM.
- 4. Gain = 0.512V / (3.2nA x 1.225 x 1000PPM) = 133.333k

Mike Lawrence			
Sheet: /Environmental Sensors 2/ File: Env-Sensors-2.kicad_sch			D
Title: ESPI	lome Parking Assistant		
Size: A4	Date: 2025-04-18	Rev: A	
KiCad E.D.A. 9.0.1		ld: 5/6	

