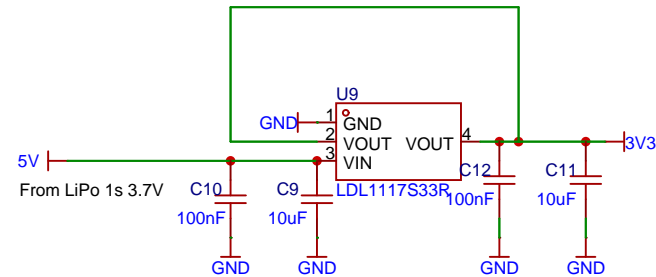
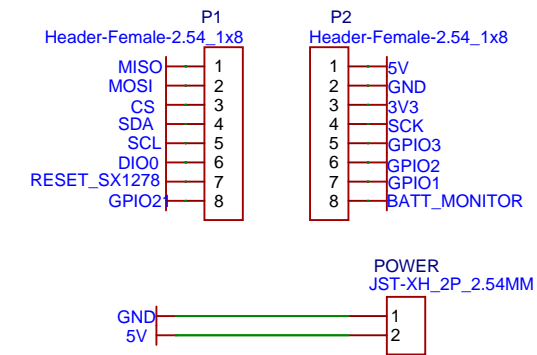


ESP32C3 Super Mini



3.7V to 3.3V Converter

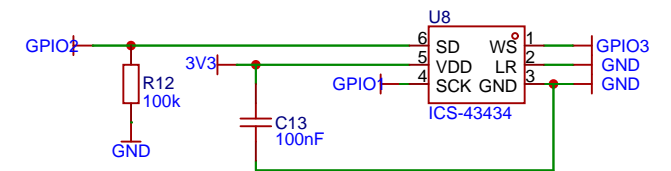


Connectors

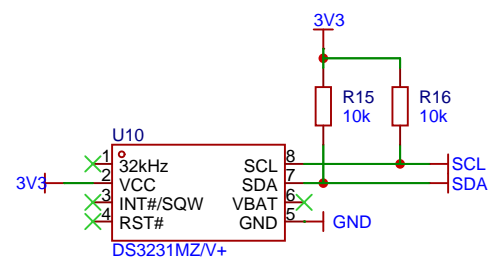
Improvements :

- Replaced LDO by very low dropout LDO for 3.7 to 3.3V conversion and very low quiescent current
- Added reset to SX1278
- Removed analog electret microphone because MEMS microphone works well
- Changed from INMP441 to ICS-43434 (LDL1117S33R)
- Added Battery Monitoring System
- Added Real Time Clock RTC

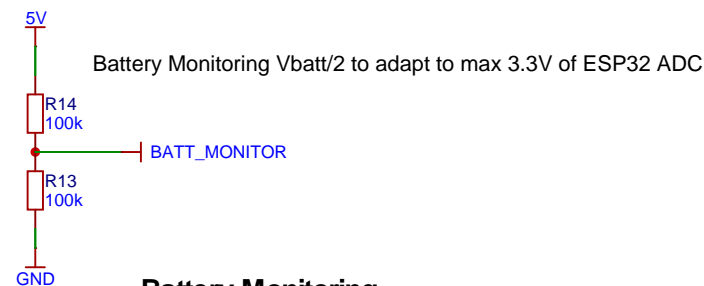
The SD trace should have a 100 k Ω pulldown resistor to discharge the line during the time that all microphones on the bus have tri-stated their outputs.



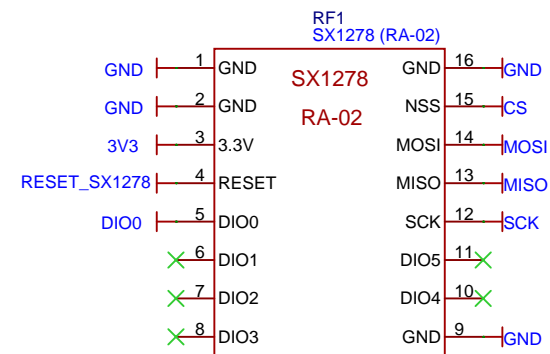
MEMS Microphone



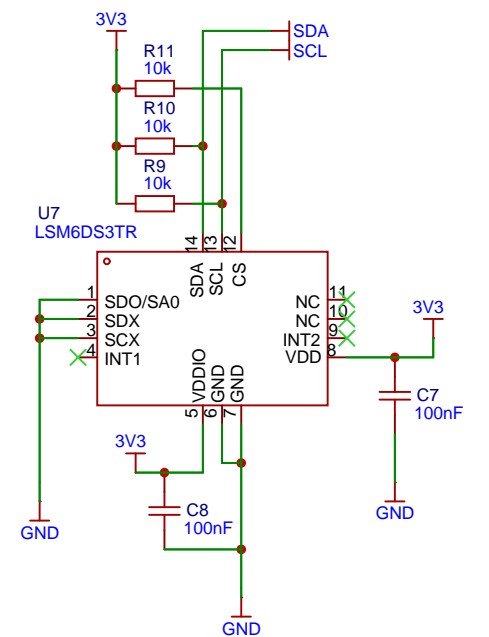
I2C Real Time Clock



Battery Monitoring



LoRa Tranceiver



MEMS IMU Accelerometer Gyroscope