VENATO Personal Protection System Schematic

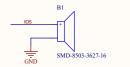
IMPORTANT

D8 and D9 LED are used to indicate SIM808 status and network state. These are used for developing ourposes. Please remove these LEDs pefore releasing as a product to reduce unnecessary power consumption. Many of the calculations for the circuit design is done using the open-source desmos graphing calculator. The calculations are done by the whole team and verified. The other set of calculations is pushed to the Github repository. Please visit the given Github link to view the remaining calculations and further information about the schematic diagram. The links for the necessary calculations are given below.

ttps://www.desmos.com/calculator/93ntxb0axe

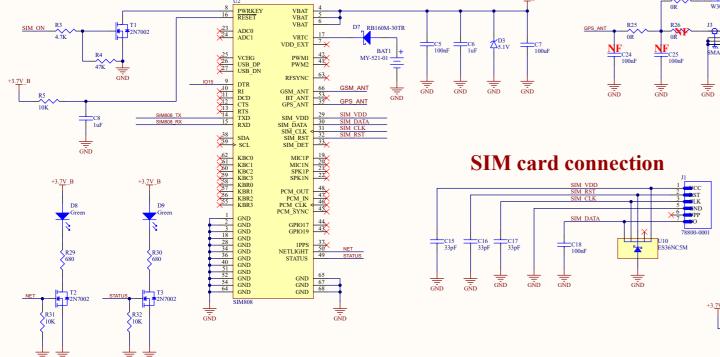
https://github.com/SentinelsORG/Venato.git

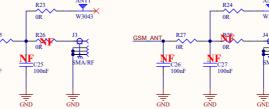
BUZZER

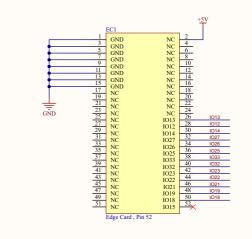


ANTENNA Connection

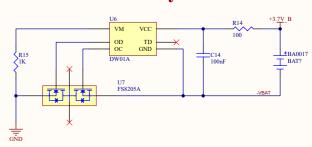






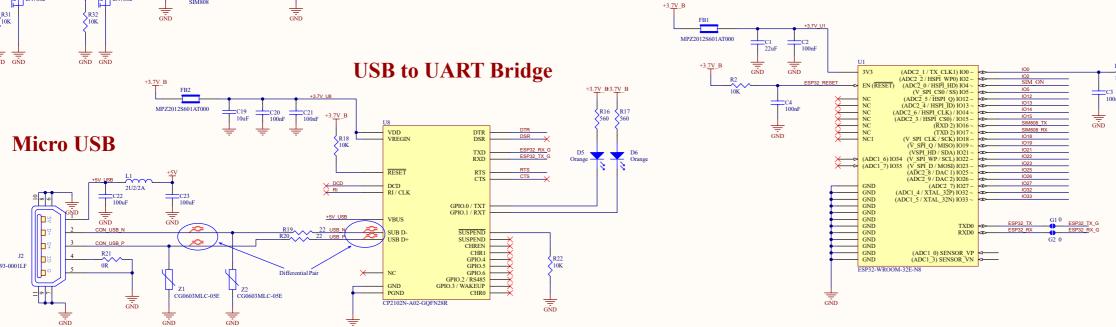


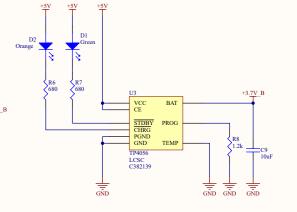
OC/OV Battery Protection



CV/CC Battery Charger

ESP32-WROOM-32E CONNECTIONS

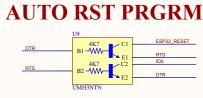


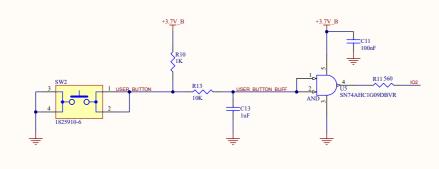


NOTE This module variant does not have an embedded QSPI PSRAM. Therefore GPIO16 can be used for other pusposes

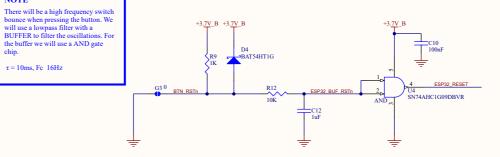
IMPORTANT The 0 Ohm Gap is used to create a link between the USB to UART bridge to the ESP32 microcontroller. But the user can unlink the connection to prevent reprogramming the microcontroller. Connect it for

USER BUTTON





RESET BUTTON



FIDUCIALS

