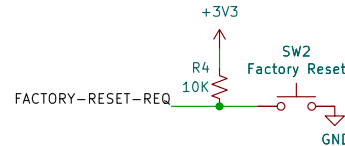
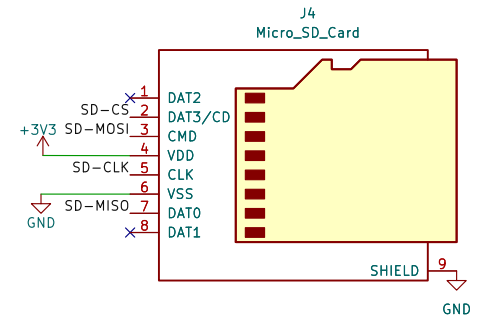
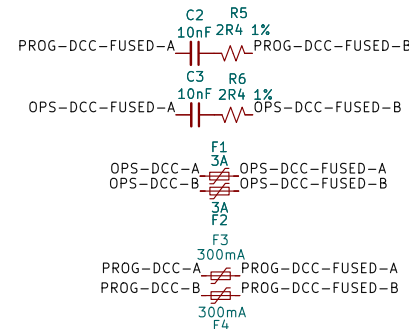


The bootloader button can be pressed on startup to have the node go into the OpenLCB Bootloader.

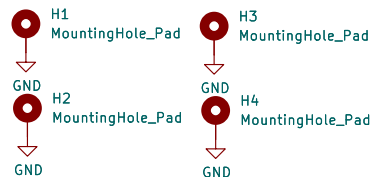


The Factory Reset button be pressed on startup to have the node reset all persistent configuration data.

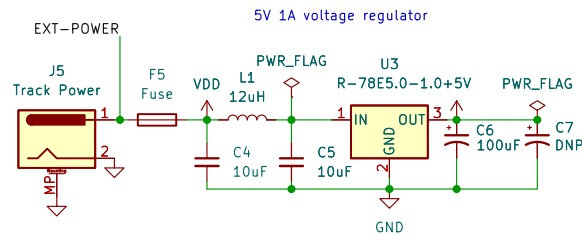


The Status Display connection is for adding an OLED or LCD display to the Command Station. The display shows real-time statistics and status information about the Command Station.

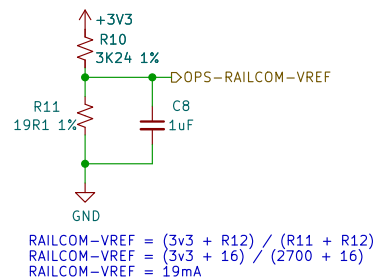
Note: OLED-RESET will be pulsed LOW for approximately 50ms during startup to allow a connected OLED display to reset.



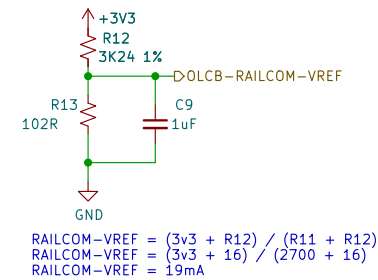
Sheet: /			
File: cs-v2.0-THT.kicad_sch			
Title: ESP32 Command Station with OpenLCB (LCC) and RailCom			
Size: A4	Date: 2022-12-21		Rev: 2.0
KiCad E.D.A. kicad 6.0.9			Id: 1/7



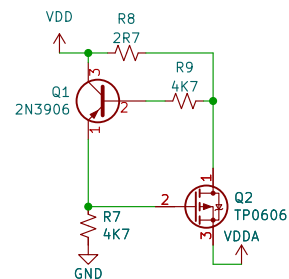
OPS RailCom Reference Voltage



OpenLCB RailCom Reference Voltage



PROG/LCC-DCC Supply



Note: This limits the current to ~250mA.
To increase the current 2R7 can be adjusted.
Or a jumper can be added between the 2N3906
pin 3 to TP0606 pin 3 and all five components
can be omitted to disable current limiting.

Sheet: /Power/
File: power.kicad_sch

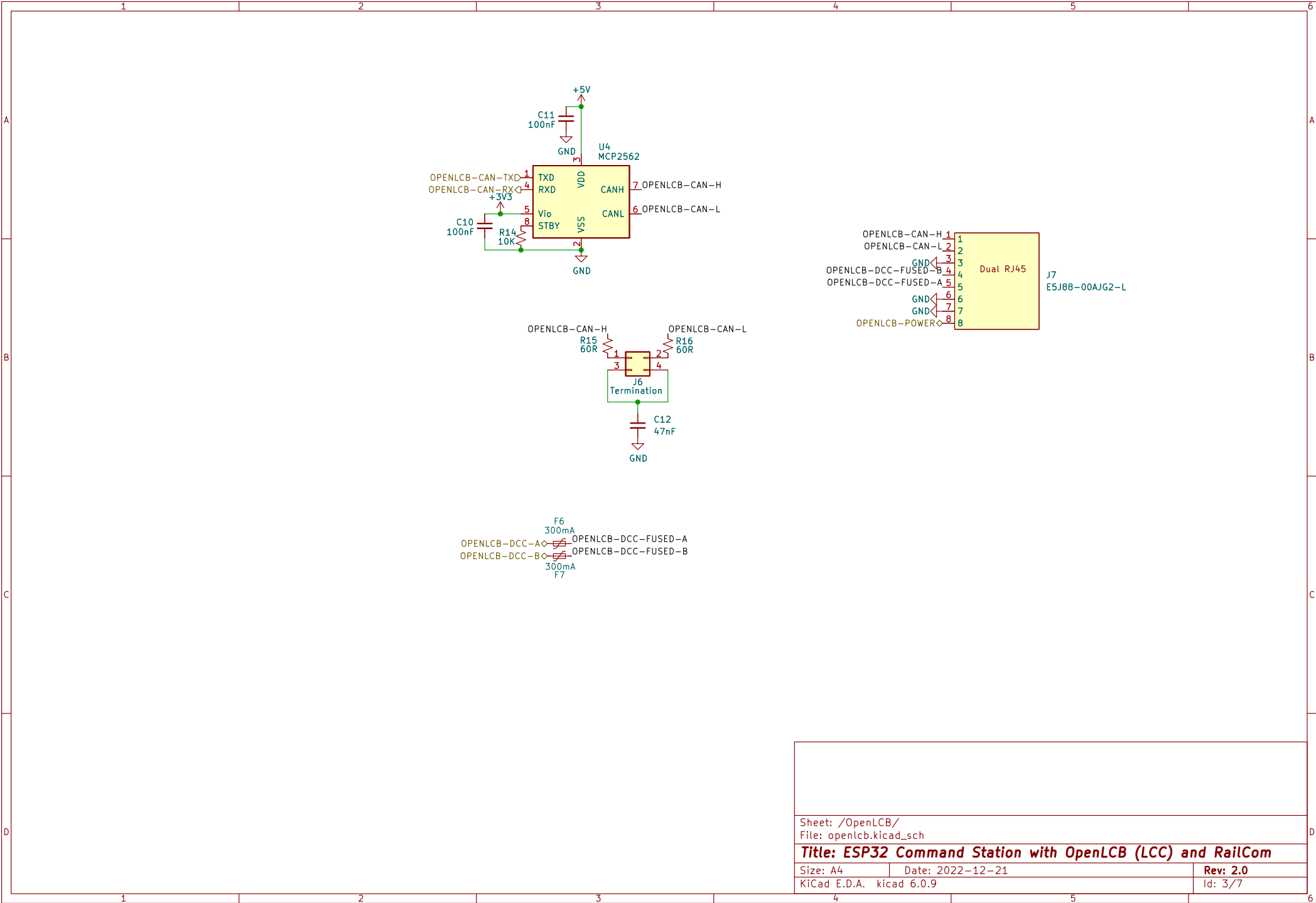
Title: ESP32 Command Station with OpenLCB (LCC) and RailCom

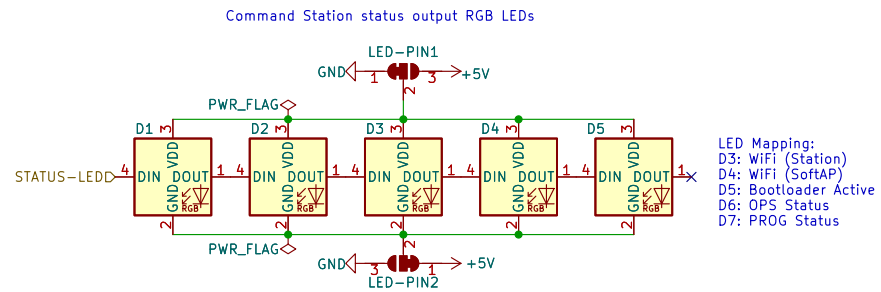
Size: A4 Date: 2022-12-21

KiCad E.D.A. kicad 6.0.9

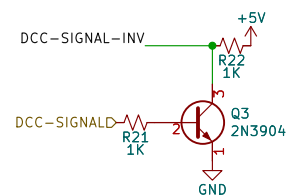
Rev: 2.0

Id: 2/7





Note: LED-PIN1 and LED-PIN2 set to the APA106 (included in PCB kit).
For WS2812B LEDs cut the traces and add a solder bridge to the opposite pad.



Id: 5/7

