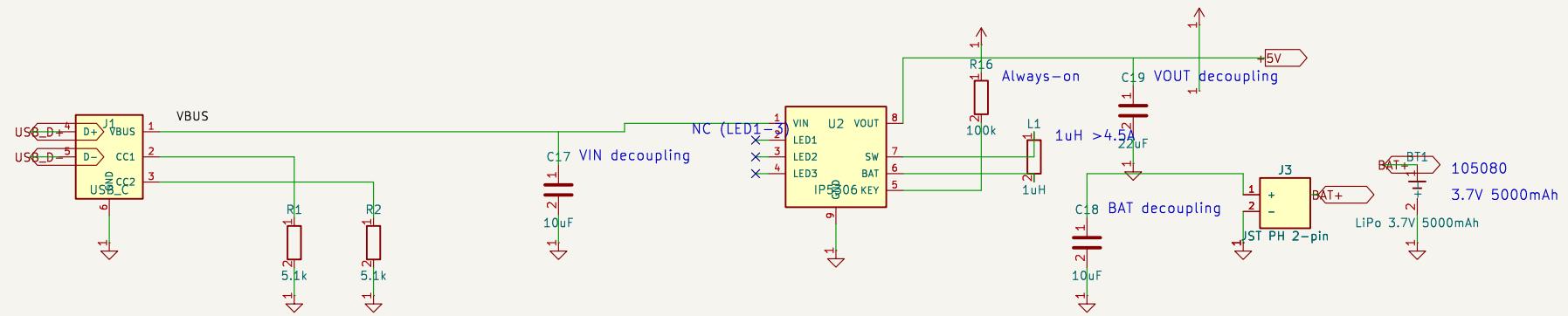


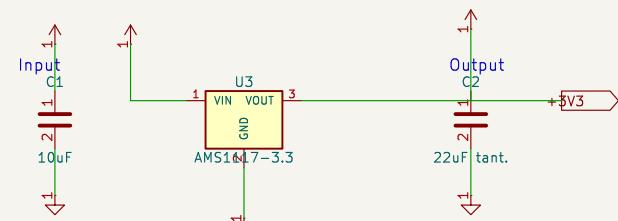
# POWER SUPPLY

USB-C → IP5306 SOP-8 (charge + boost) → AMS1117-3.3 → 3.3V rail



## VOLTAGE REGULATOR

5V → AMS1117-3.3 → 3.3V (800mA max)



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ESP32 Emu Turbo - Handheld Retro Console

Sheet: /  
File: 01-power-supply.kicad\_sch

**Title: Power Supply**

Size: A4 Date:  
KiCad E.D.A. 9.0.7

Rev:  
Id: 1/1

### Design Notes:

- 1P5306 eSOP-8: integrated charger + synchronous boost (no ext. Schottky)

- 1uH inductor: BAT → L1 → SW (>4.5A saturation, shielded)