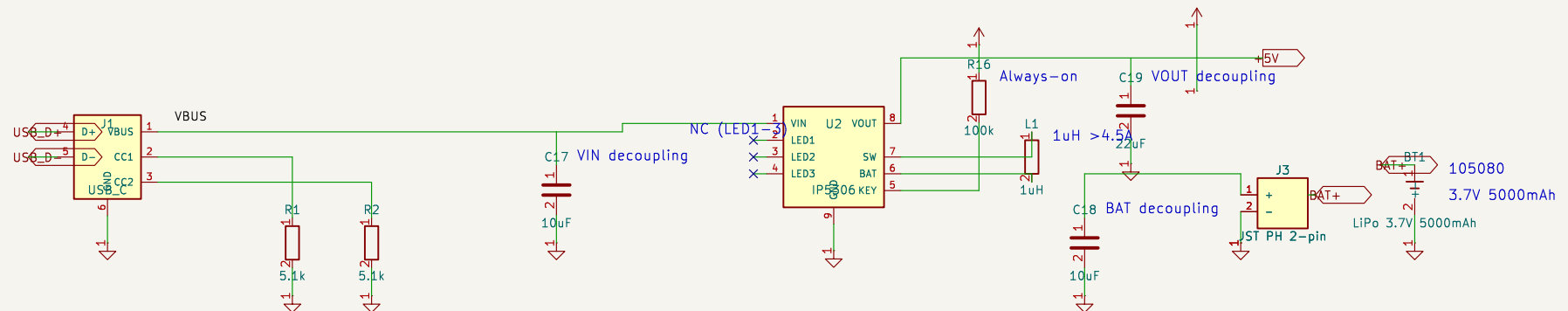


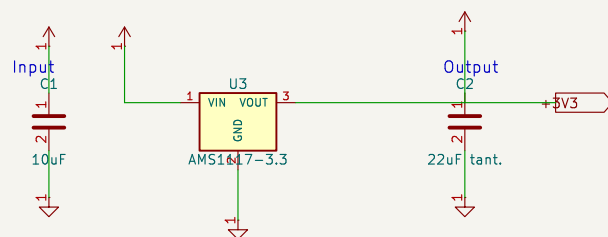
## POWER SUPPLY

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



## VOLTAGE REGULATOR

5V  $\rightarrow$  AMS1117-3.3  $\rightarrow$  3.3V (800mA max)



Generated by scripts/generate\_schematics  
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:

- IP5306 eSOP-8: integrated charger + synchronous boost (no ext. Schottky)
- 1uH inductor: BAT → L1 → SW (>4.5A saturation, shielded)