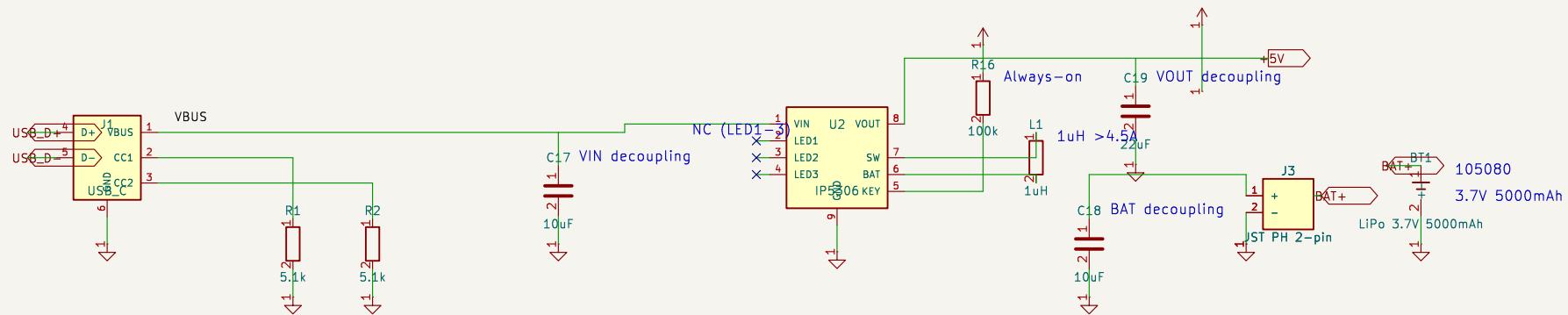
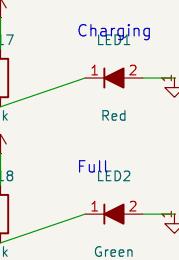


POWER SUPPLY

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

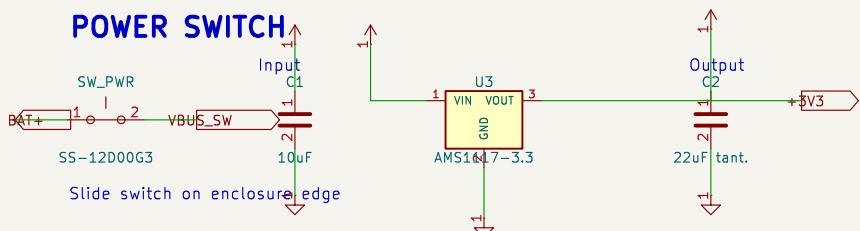


CHARGING INDICATOR LEDs



VOLTAGE REGULATOR

5V → AMS1117-3.3 → 3.3V (800mA max)



Design Notes:

- 1P5306 eSOP-8: integrated charger + synchronous boost (no ext. Schottky)
- 1uH inductor: BAT → L1 → SW (>4.5A saturation, shielded)

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ESP32 Emu Turbo - Handheld Retro Console

Sheet: /
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Title: Power Supply

Size: A4 Date:

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