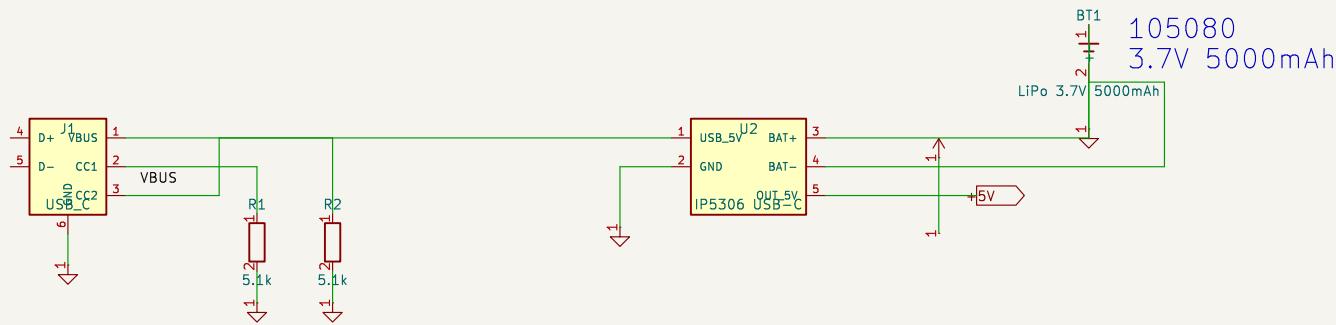


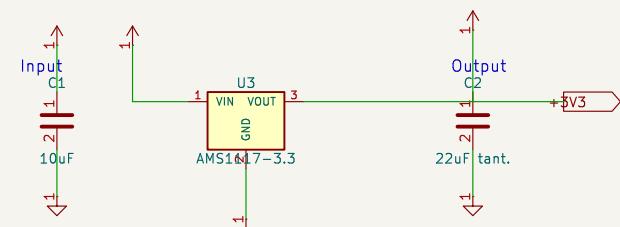
POWER SUPPLY

USB-C → IP5306 (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: /
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Title: Power Supply

Size: A4 Date:

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Rev:
Id: 1/1

Design Notes:

- IP5306 provides charge-and-play (simultaneous charging + 5V boost output)
- AMS1117-3.3 provides stable 3.3V for ESP32-S3 and all peripherals (800mA max)