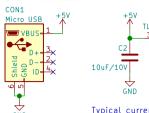
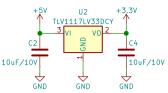
Power supply

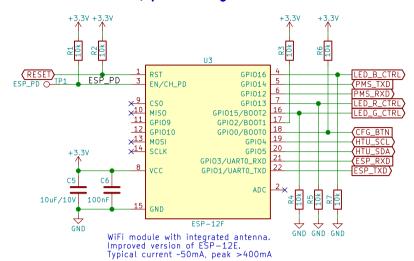
Default power supply input - micro USB charger.





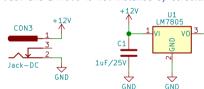
Typical current ~150 mA, peak ~500 mA. TI TLV1117LV or Taiwan Semi TS1117B can be used. ST LD1117, ON Semi NCP1117 can be unstable with ceramic capacitor!

WiFi/processing module



Optional power supply input

Optional power supply input -2.1×5.5 DC barrel jack. Jack and LM7805 is not installed by default.

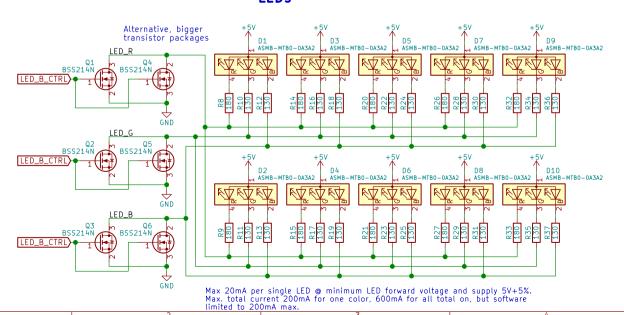


Programming connector

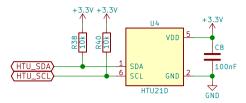


Programming connector — UART to USB adapter. To enter programming mode, hold CFG button and press RESET buton.

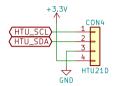
LEDs



Humidity and temperature sensor

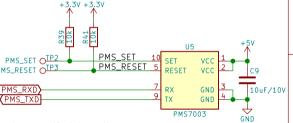


HTU21D, HDC1080, Si7020 can be used. According to datasheet , central pad should be left floating. Current consumption negligible.

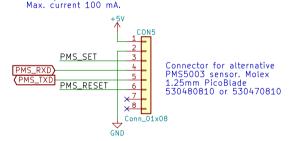


Alternative connector for HTU21D module, can be used if assembling board by hand.

Particulate matter sensor



Laser particulate matter sensor.



Buttons

