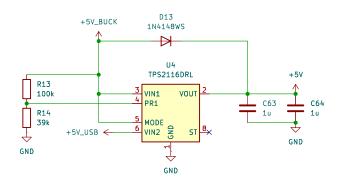


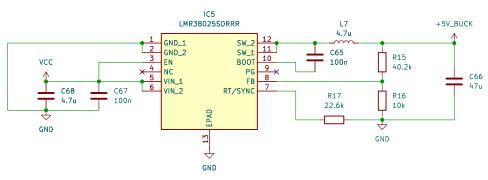
5V Power MUX

Switches up to 4A (TPS2117) from +5V_USB or +5V_BUCK to +5V. Prefers buck over USB, threshold voltage is about 3.5V. The threshold voltage is low to prevent accidental switchover to USB during peak consumption (worst case in flight). Emergency diode for if that happens during flight.



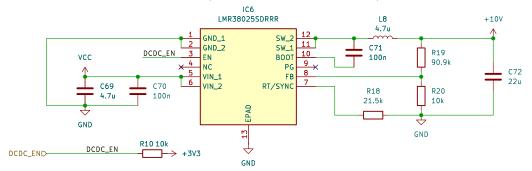
5V SMPS

12-45V -> 5V 2.5A



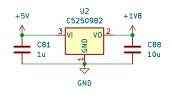
10V SMPS

12-45V -> 10V 2.5A (6.8uH inductor recommended, but this works)

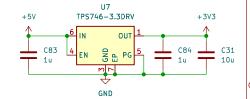


1.8V 300mA LDO (Gyro)

3.3V 1A LDO



File: power.kicad sch



4.2V Supply

Used for the first RGB LED in each strip, not broken out.



Sheet: /Power/

Title: Kolibri FC - DCDC + LDO
Size: A4 Date:

 Size: A4
 Date:
 Rev:

 KiCad E.D.A. 9.0.5
 Id: 13/13