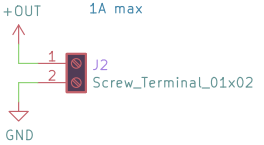
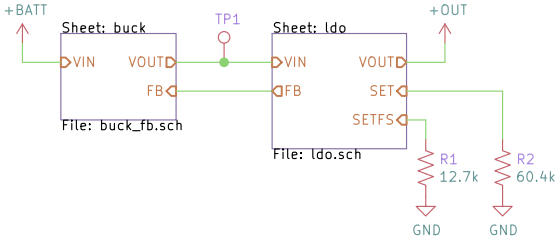
6S lipo (19.2 – 25.2V)
or 24V AC/DC adapter



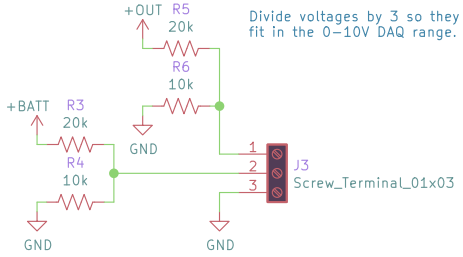


Resistor values...
for 12V:
  SETSFS(kΩ) = 442 / (12*3 – 1) = 12.63k
  SET(kΩ) = 5*12 = 60k

for 10V:
  SETFS(kΩ) = 442 / (10*3 – 1) = 15.24k
  SET(kΩ) = 5*10 = 50k

for 5V:
  SETFS(kΩ) = 442 / (5*3 – 1) = 31.57k
  SET(kΩ) = 5*5 = 25k

DAQ Voltage Monitoring



Divide voltages by 3 so they fit in the 0–10V DAQ range.

All resistors/capacitors are 0603/1% unless otherwise specified.

Sheet: / File: power_board.sch		
Title: DAQ Power Board		
Size: A4	Date:	**Rev:**
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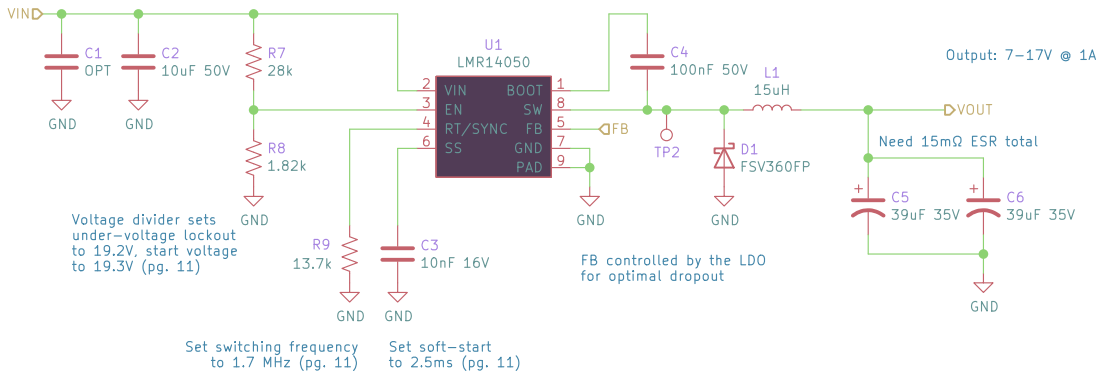
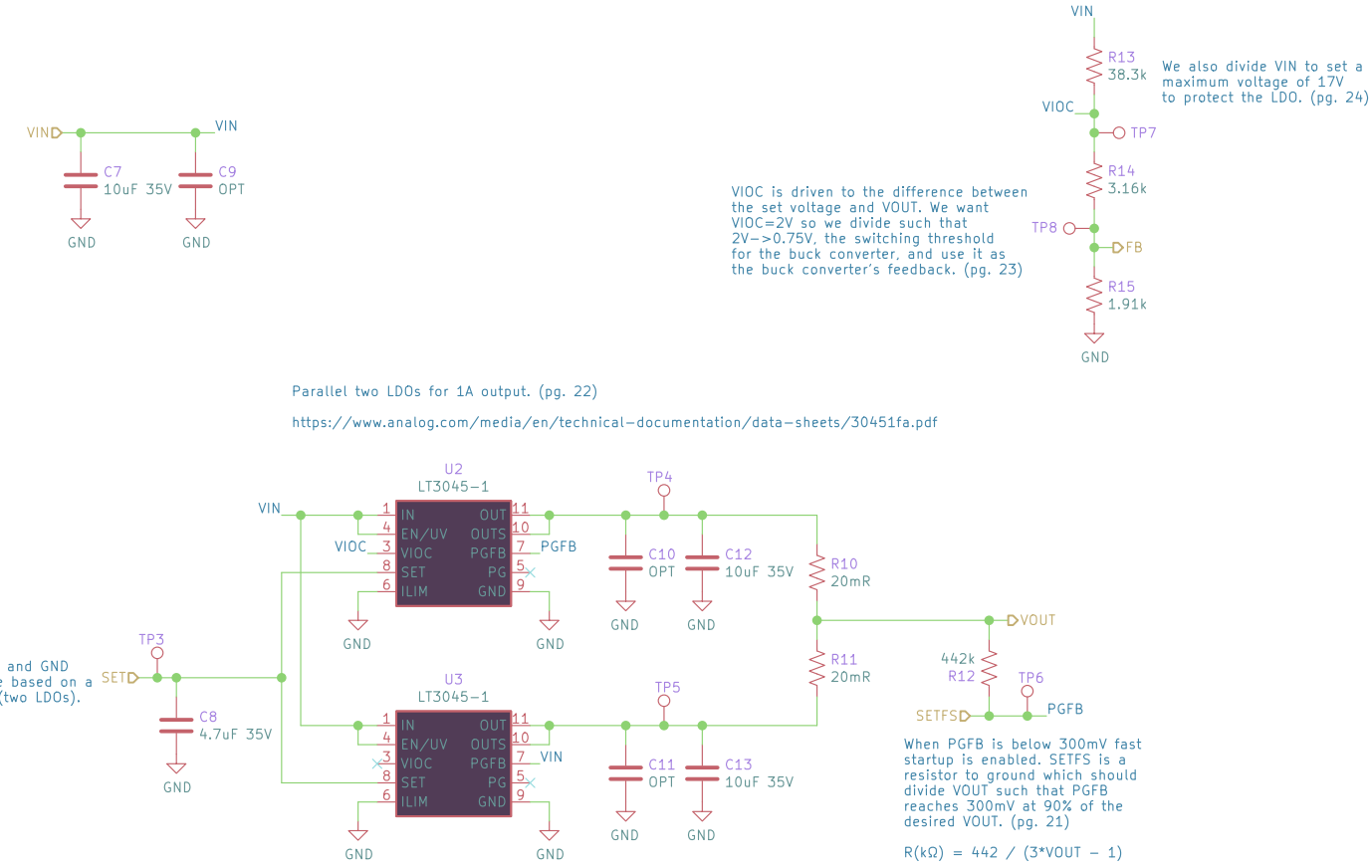
Variable buck regulator. Most values taken from webench.ti.com for 17V 1A out.
https://www.ti.com/lit/ds/symlink/lmr14050.pdf

Input: 19.2–25.2V or 24V from wall



Output: 7–17V @ 1A

Sheet: /buck/		
File: buck_fb.sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 5.1.10		Id: 2/3



Sheet: /ldo/		
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Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 5.1.10		Id: 3/3