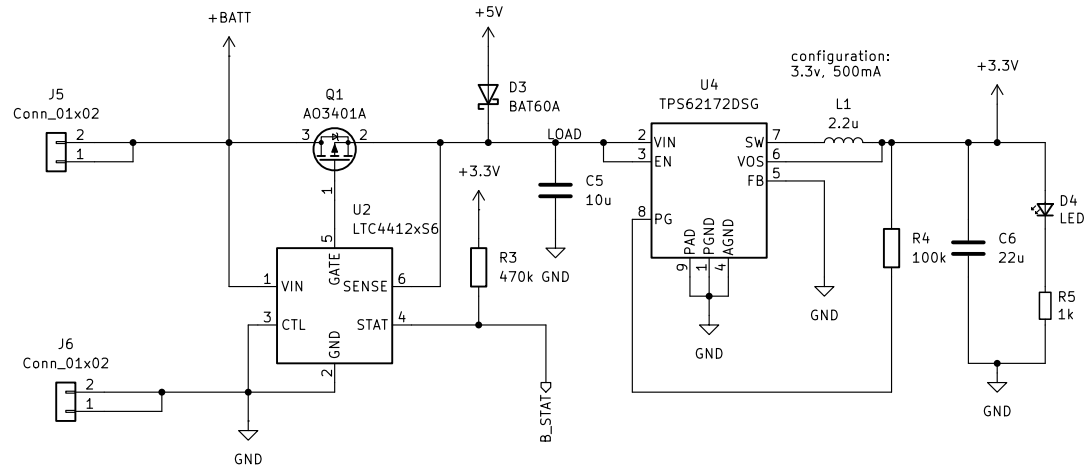


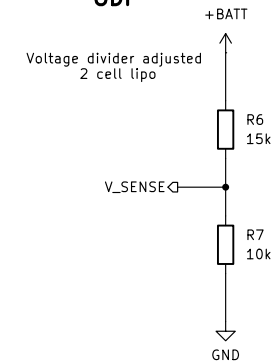
**Functional Blocks**

## Power MUX

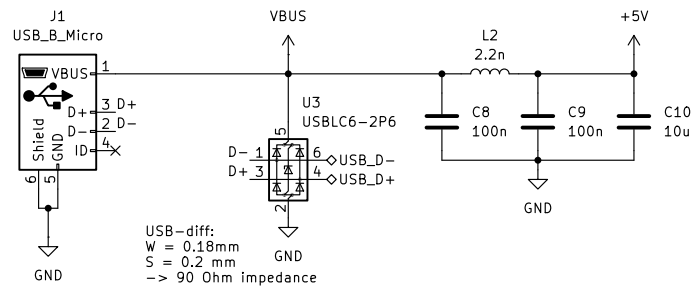
## Step down regulator



## ODP



## USB JTAG and Power



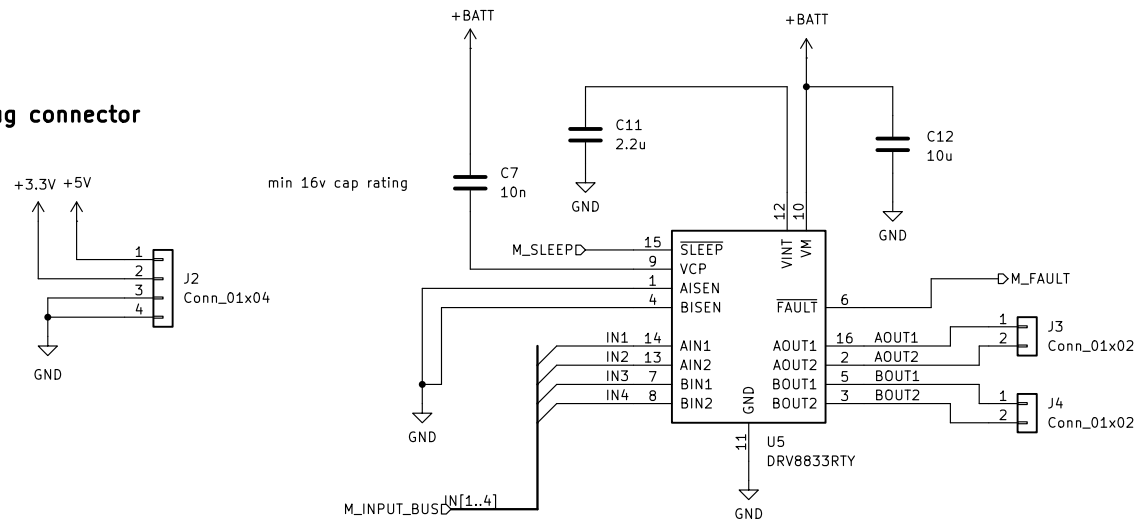
## PWR, USB-JTAG



## DC-Motor Driver

AISEN and BISEN shunt resistor power rating (if used)  
 1W minimum. Calculated from max IC current (1.5A RMS) through 0.2Ω:  
 $P = I^2R = (1.5A)^2 \times 0.2\Omega = 0.45W$  continuous  
 With peak current (2A):  $P = (2A)^2 \times 0.2\Omega = 0.8W$  peak  
 1W rating is safe margin over both continuous and peak dissipation

## Debug connector



## Motor Driver