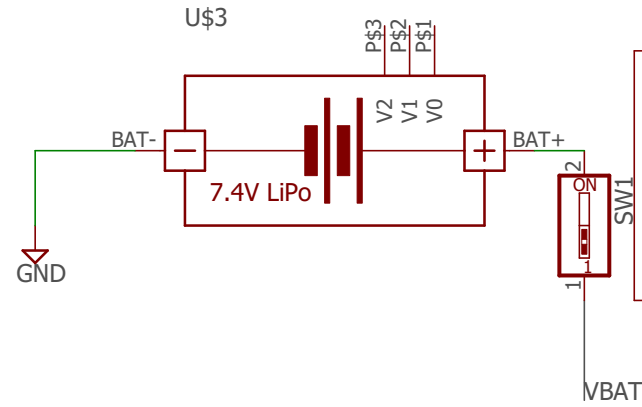


Potentiometers (PT10) for position feedback  
V\_supply=3.3V  
V\_min = 0V  
V\_max = 1.65V  
I\_nominal=33uA

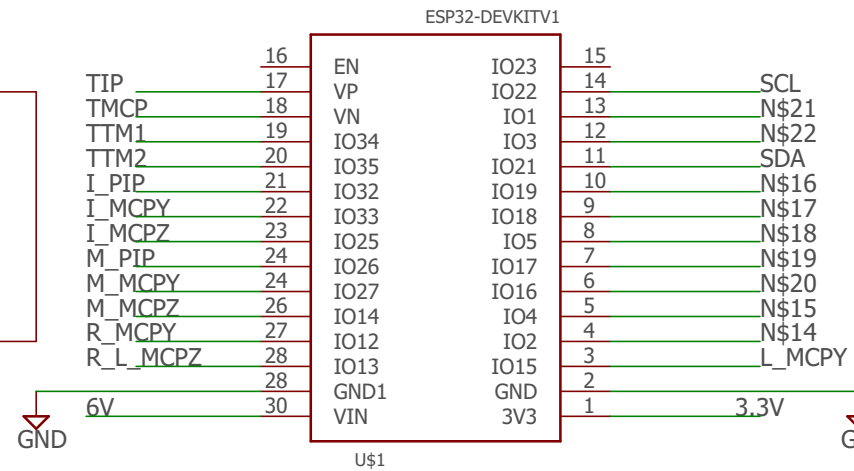
ADC\_V\_ref = 1.7V  
(Inbuilt atteneuation feature to select 4 different ranges)



LIPO 2S 7.4V batteryl  
I\_max\_continuos=5 A ( 800mA margin)  
V\_full\_charged=8.4V  
V\_nominal=7.4V  
V\_discharged=6.8V  
I\_que=5mA  
Capacity = 2AH  
(depends on usage duty cycle)

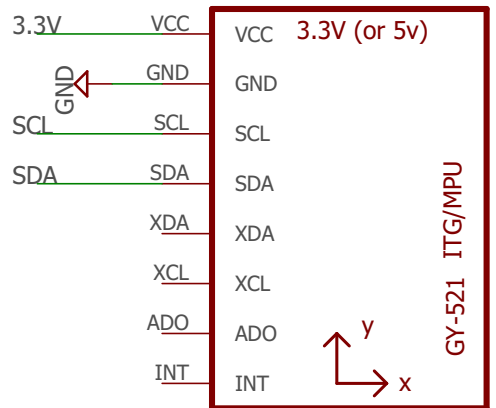
On Board AMS1117  
V\_out=3.3V  
I\_out\_max=1000mA  
V\_DO\_max=1.3V  
V\_in\_max=15V  
I\_que=5mA  
Ripple Rejection is max at f=120Hz  
for C\_adj=10uf and C\_out=22uf

Recommended (ESP32)  
V\_in=3.3V  
I\_min=500mA



V\_IO\_max = 3.6V  
V\_High= 3.3V (nominal)  
V\_Low= 0V (nominal)  
  
On board AMS1117  
V\_Supply\_out=3.3V(regulated)  
I\_supply\_max=1A

V\_IO\_max = 3.6V  
V\_High= 3.3V (nominal)  
V\_Low= 0V (nominal)  
  
Power Requirments(IMU)  
V\_Supply\_in=3.3V(regulated)  
I\_sink\_max=3.9mA



LIPO 2S 7.4V batteryl  
I\_max\_continuos=5 A ( 800mA margin)  
V\_full\_charged=8.4V  
V\_nominal=7.4V  
V\_discharged=6.8V  
I\_que= 5mA  
Capacity = 2AH (depends on usage duty cycle)

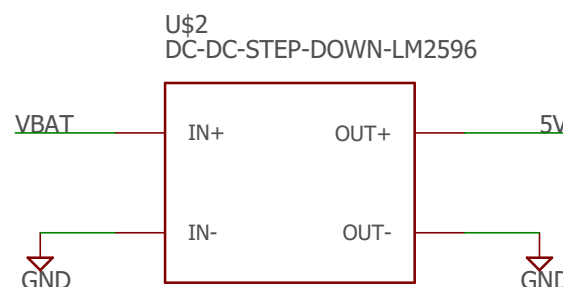
LM2596  
I\_max=3 A  
V\_in\_max=15V  
I\_que= 5mA  
V\_diff=1.75@25degree C

PWM\_V\_High= 3.3V (nominal)  
PWM\_V\_Low= 0V (nominal)

Force feedback Servo Motors  
  
PWM\_V\_High= 5V (nominal)  
PWM\_V\_Low= 0V (nominal)  
f\_PWM=50Hz  
%d\_PWM= 5-10 %

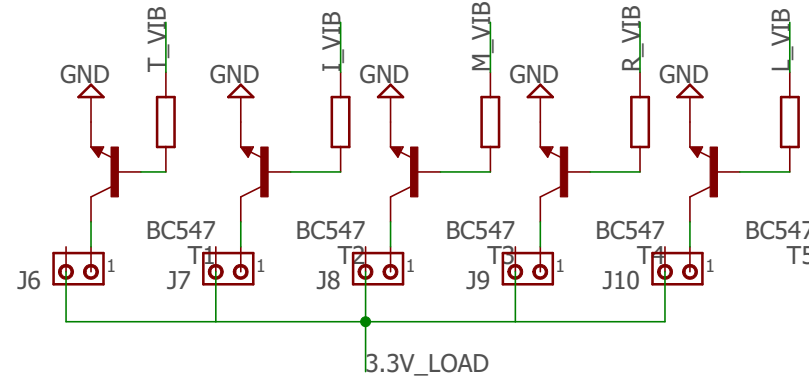
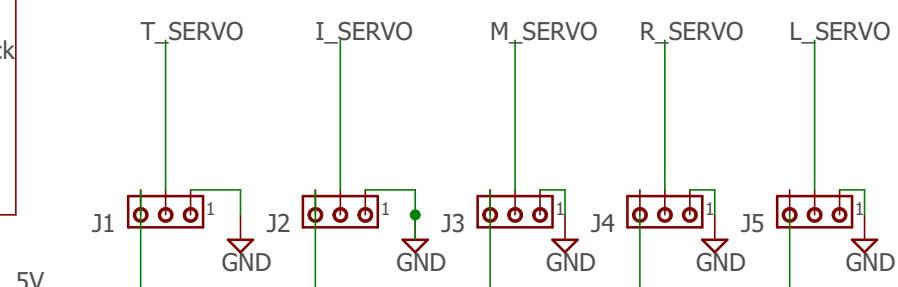
V\_IO\_max = 3.6V  
V\_High= 3.3V (nominal)  
V\_Low= 0V (nominal)

LLD for Tactile motors  
  
V\_High= 3.3V (nominal)  
V\_Low= 0V (nominal)



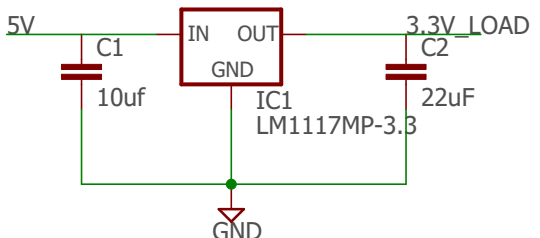
LM2596  
V\_out=5V  
I\_out\_max=3 A

Servo Motors for force feedback  
  
V\_supply=5V (regulated)  
I\_nominal=120mA  
I\_stall=650mA  
all values are per motor



LM2596  
V\_out=5V  
I\_out\_max=3 A  
f\_sw=[110Hz-173Hz]  
V\_diff=1.75@25degree C

On Board AMS1117  
V\_DO\_max=1.3V  
V\_in\_max=15V  
I\_que=5mA  
I\_max=1A  
Ripple Rejection is max at f=120Hz  
for C\_adj=10uf and C\_out=22uf



Off Board AMS1117  
V\_out=3.3V  
I\_out\_max=1000mA  
I\_que=5mA

Tactile motors  
  
I\_sink\_max=90mA/motor  
V\_supply=2.4 - 4V