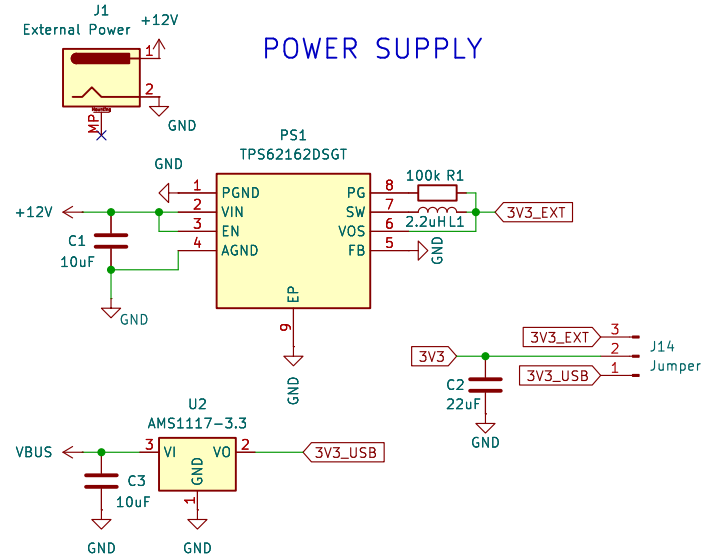


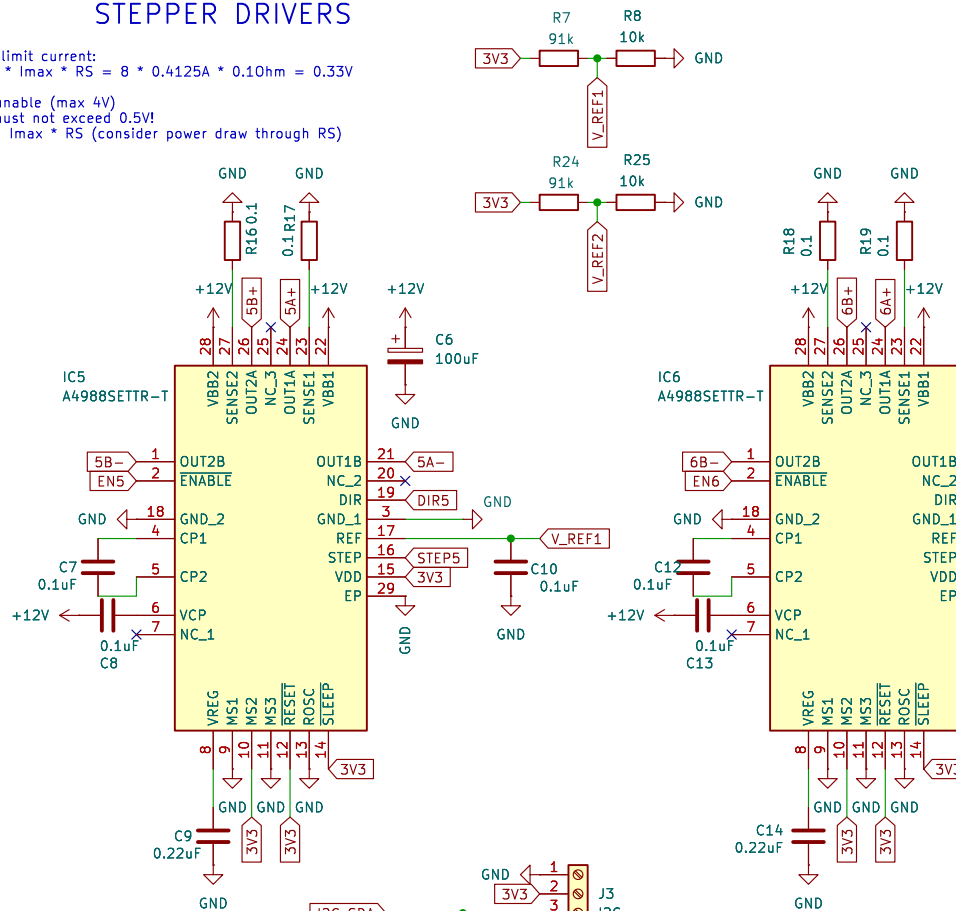
POWER SUPPLY



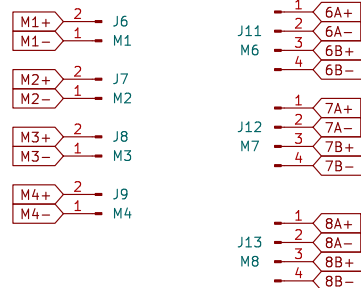
STEPPER DRIVERS

R set to limit current:
 $V_{ref} = 8 * I_{max} * R_S = 8 * 0.4125A * 0.10\Omega = 0.33V$

V_{ref} is tunable (max 4V)
 V_{sense} must not exceed 0.5V!
 $V_{sense} = I_{max} * R_S$ (consider power draw through R_S)

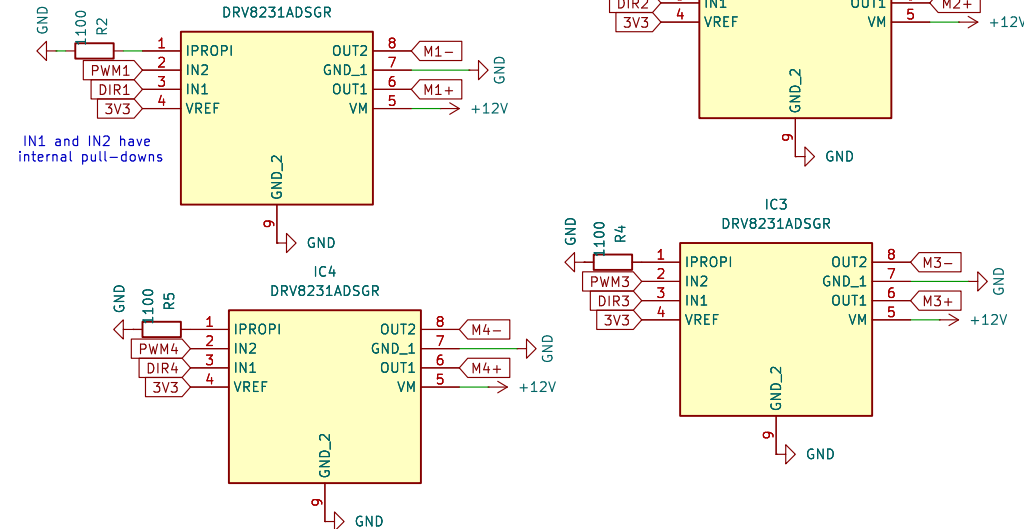


CONNECTORS

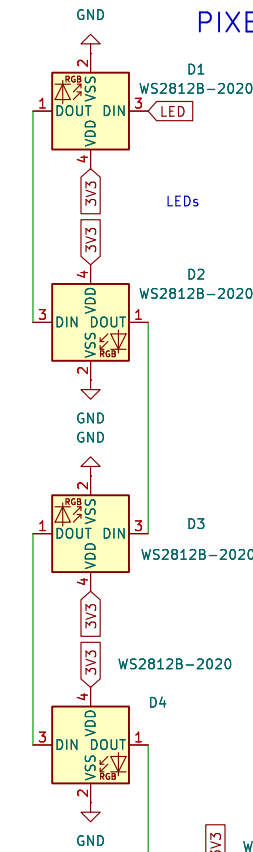


PWM DRIVERS

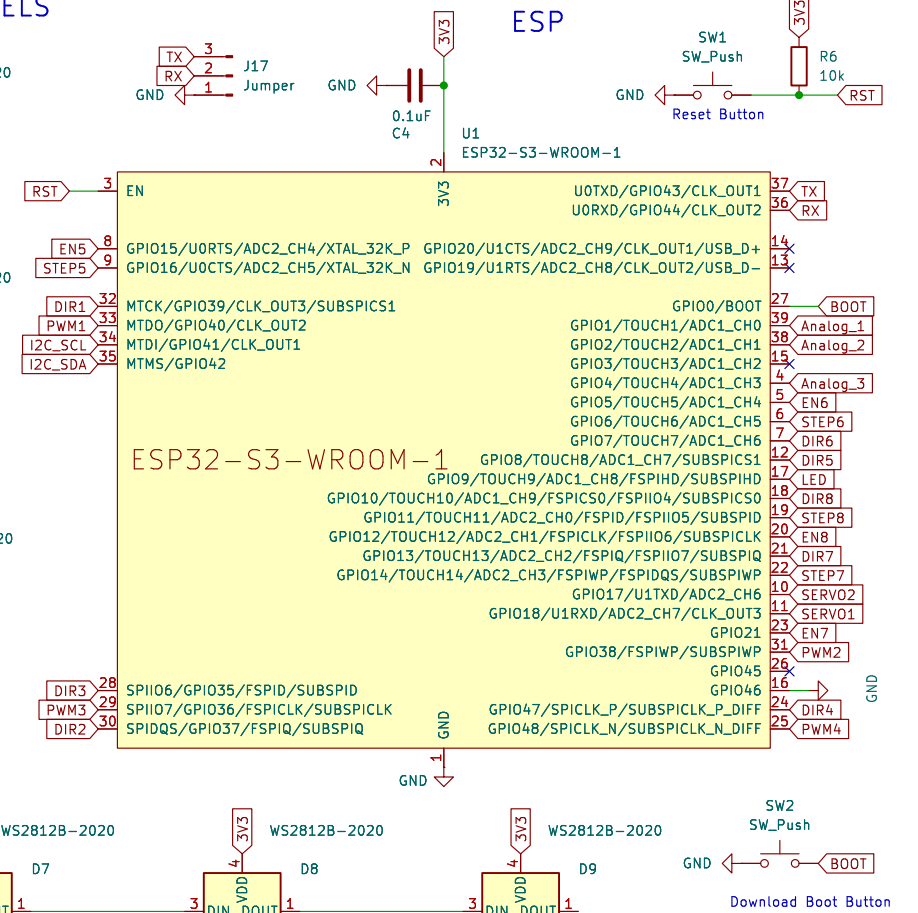
R set to limit current:
 $R = V_{ref} (mV) / (I_{max} * 2.93A)$
 $R = 750$ for $I_{max} = 2.93A$
 $R = 1100$ for $I_{max} = 2A$



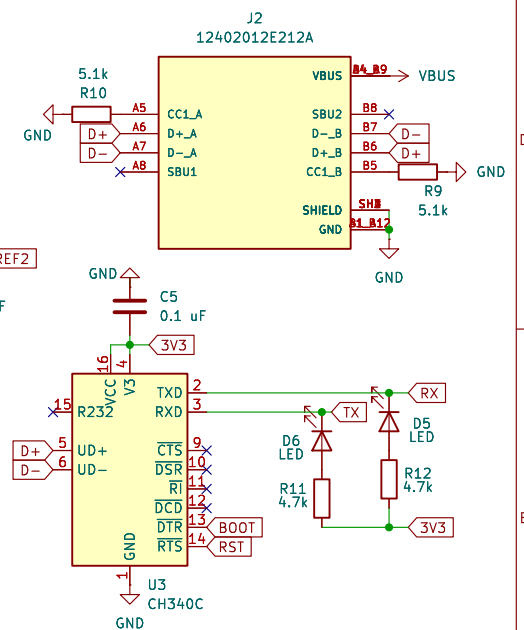
PIXELS



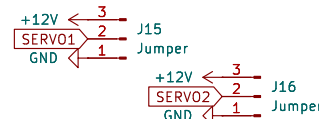
ESP



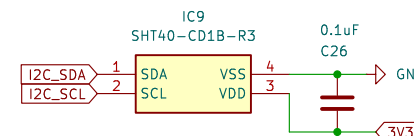
USB COMMS



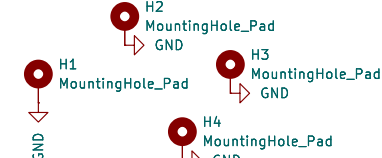
Servo



Temp / Hum Sensor



MOUNTING



Sheet: /		
File: sd_board.kicad_sch		
Title:		
Size: A3	Date:	Rev:
KiCad E.D.A. 9.0.5		Id: 1/1