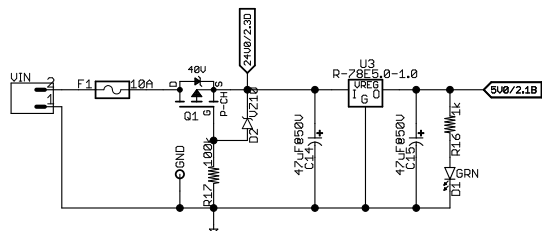
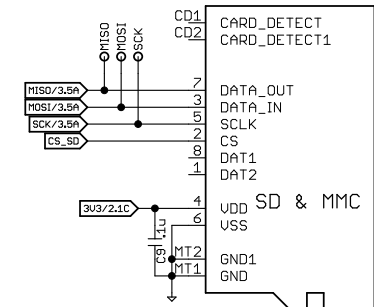
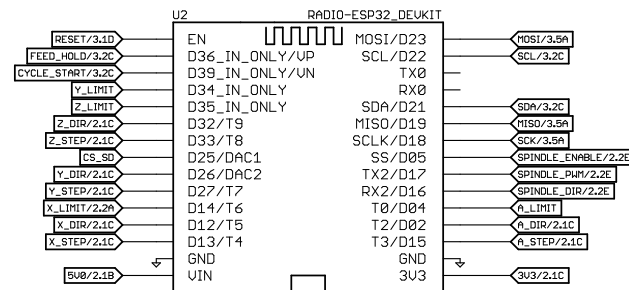


todo
 reroute
 check if D14 and D15 PWM out on startup
 check stepper motor config pins for drv8825 and trinamic
 switch 23017 to qfn
 add strong pull ups to steps and dir
 add high current N-CH to extra 23107 outputs
 estop polarity wrong on motor drivers

references
<https://randomnerdtutorials.com/esp32-pinout-reference-gpios/>



TITLE: tetrad	
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