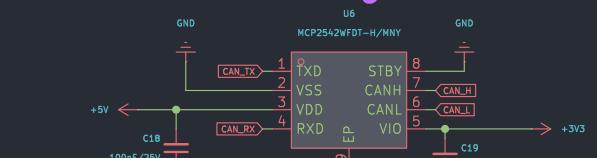


## CAN Status

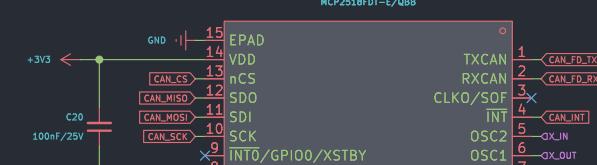
TBD

## CAN Transceiver with Integrated Level Shifter



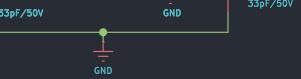
## CAN Controller (SPI <-> CAN(-FD))

U7  
MCP2518FDT-E/Q8B

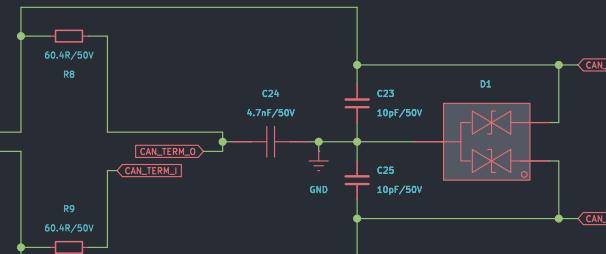


## CAN Controller Clock

X1  
XTM20040000FT00351001



## CAN Termination and ESD Protection



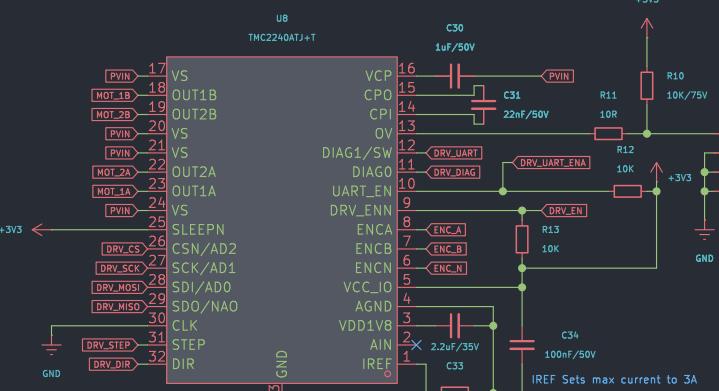
Sheet: /CAN-FD/  
File: can-fd.kicad\_sch

Title: CAN-FD

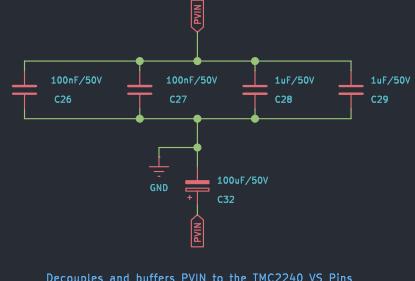
Size: A4 | Date: 2025-04-13  
KiCad E.D.A. 9.0.6

Rev: 1.0  
Id: 2/4

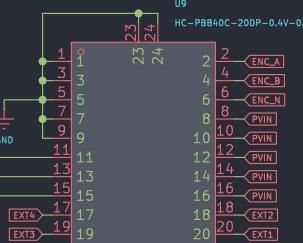
## TMC2240 Motor Driver and Over Voltage Protection



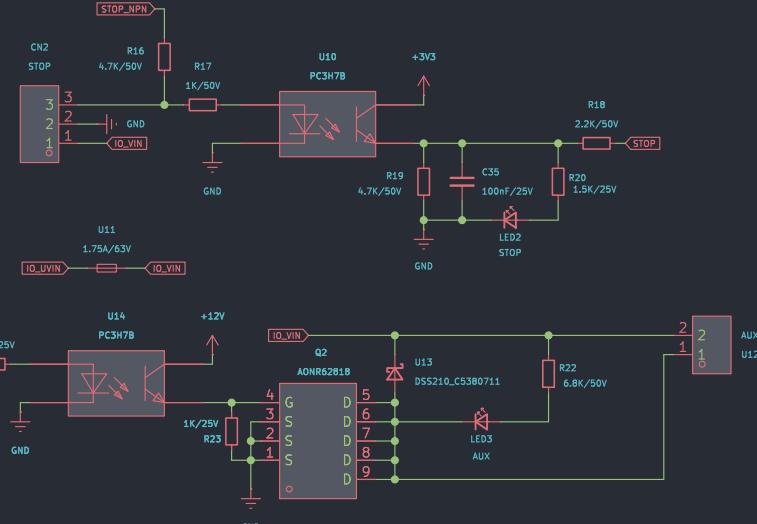
## PVIN Buffer



## Extension Connector



## IO / Endstops



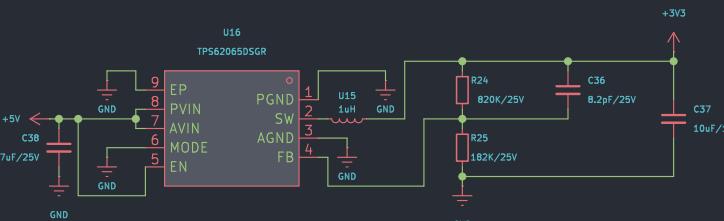
Sheet: /Motor Driver and IO/  
File: motor-driver.kicad\_sch

**Title: Motor Driver and IO**

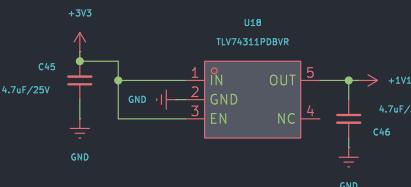
Size: A4 Date:  
KiCad E.D.A. 9.0.6

Rev:  
Id: 3/4

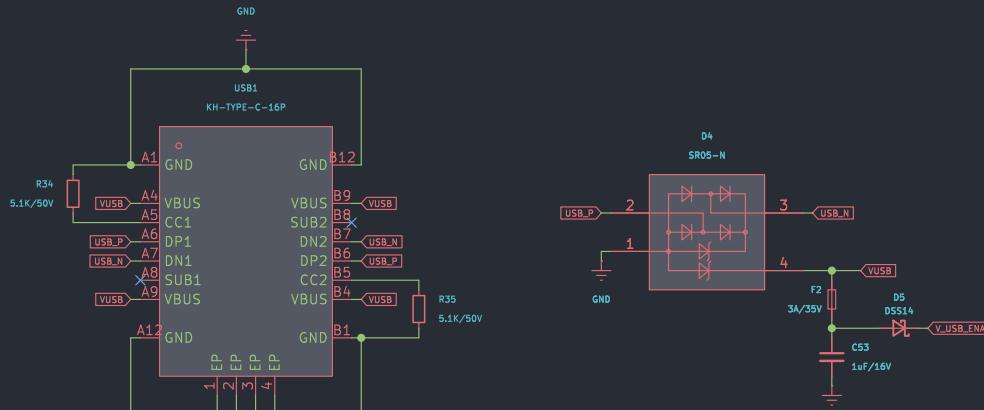
## Buck Converter 5v to 3.3v



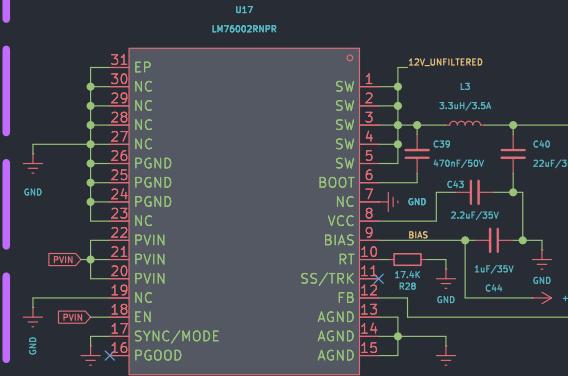
## LDO 3.3v to 1.1v



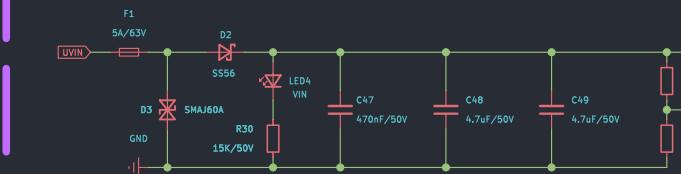
## USB-C Port and Power



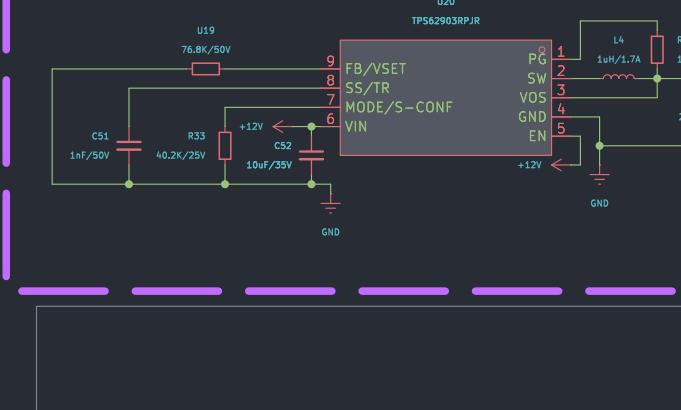
## Buck Converter VIN (24–36v) to 12v



## VIN Protection & Input Buffer



## Buck Converter 12v to 5v



Sheet: /Power and USB-C/  
File: power.kicad\_sch

**Title:** Power

**Size:** A4    **Date:**  
KiCad E.D.A. 9.0.6

**Rev:**  
Id: 4/4