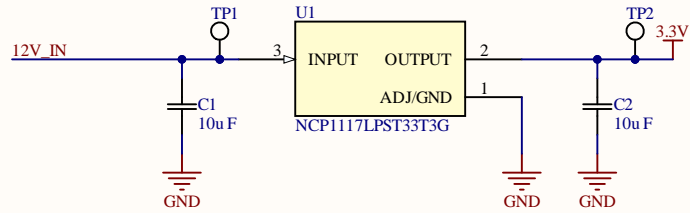
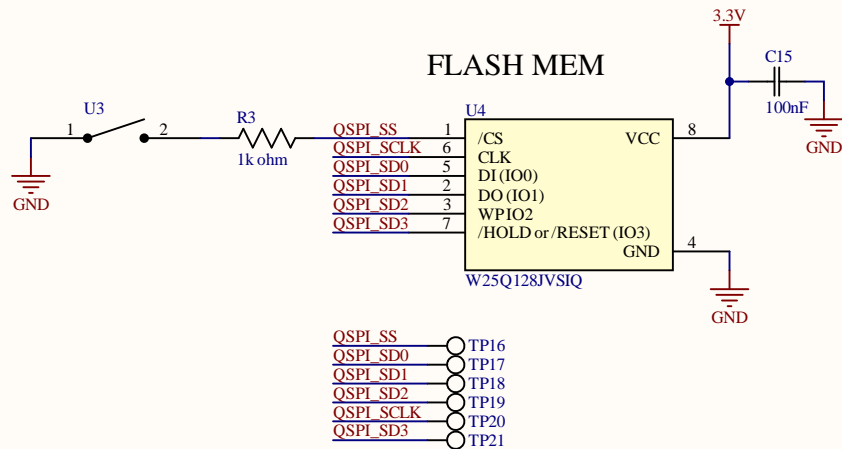


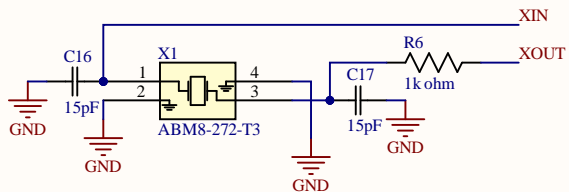
## POWER



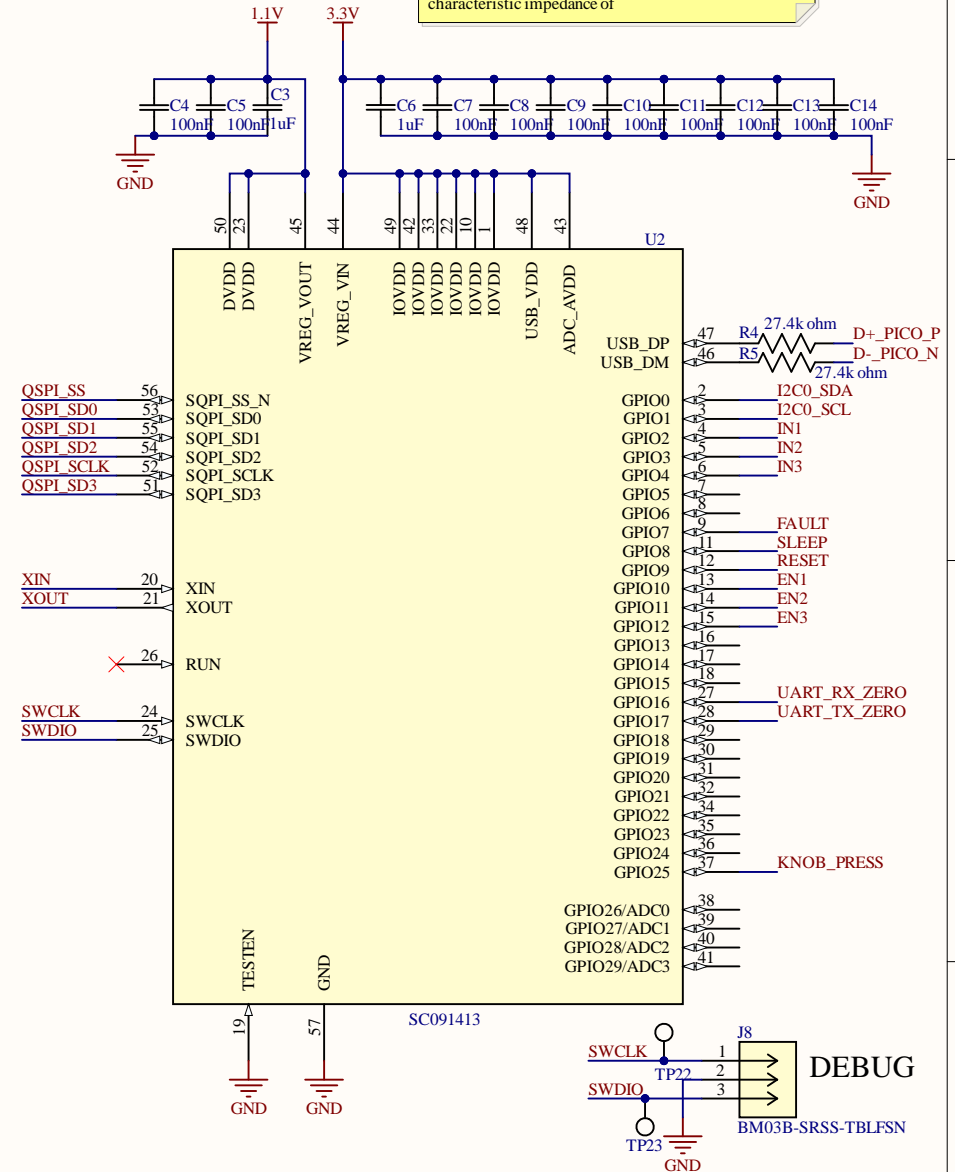
## FLASH MEM



## EXTERNAL CLOCK



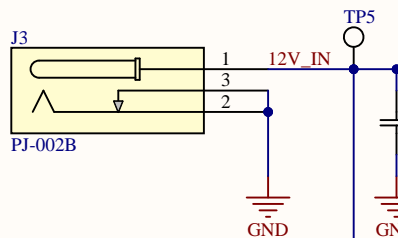
make sure that the characteristic impedance of the transmission lines (the copper tracks connecting the chip to the connector) are close to the USB specification of  $90\Omega$  (measured differentially). On a 1mm thick board if we use 0.8mm wide tracks on USB\_DP and USB\_DM, with a gap of 0.15mm between them, we should get a differential characteristic impedance of



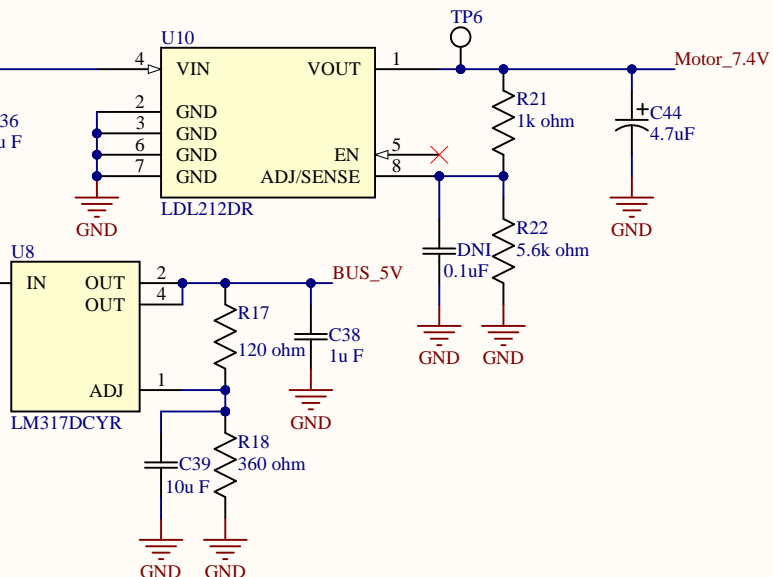
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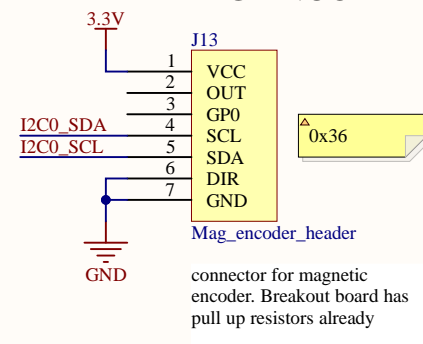
## 12V SUPPLY



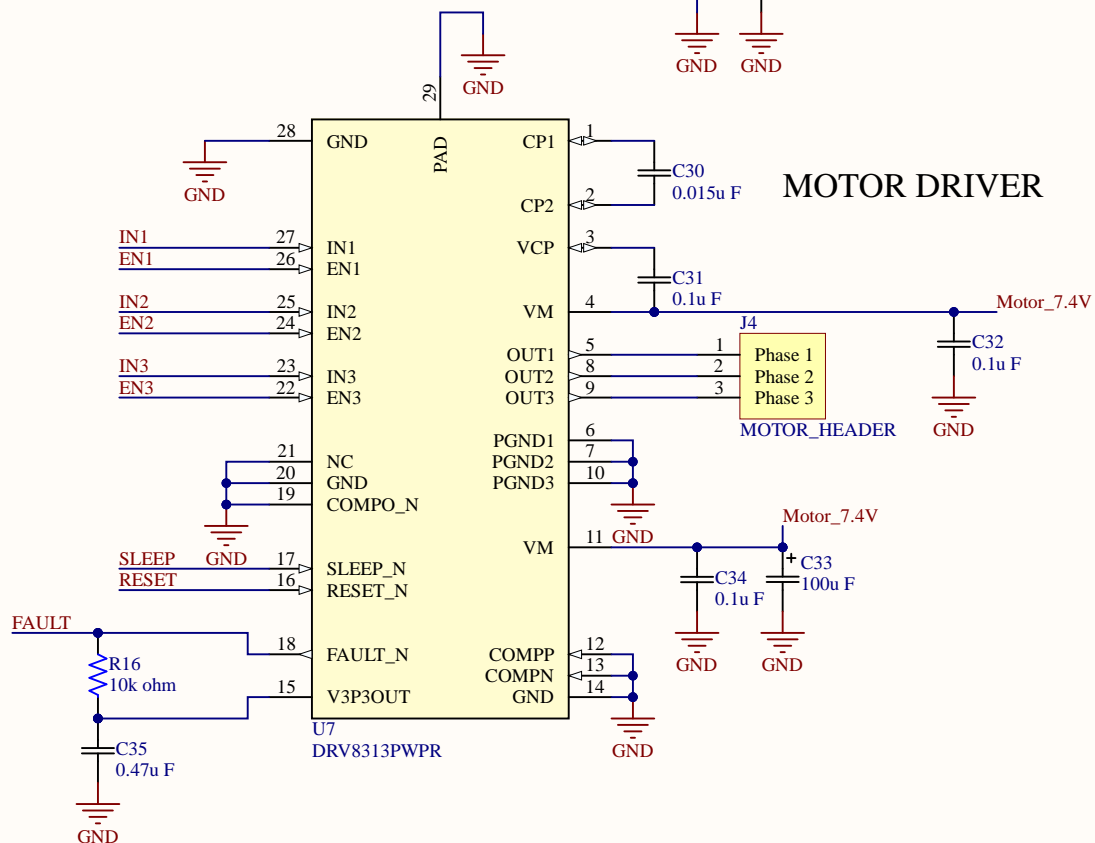
## MOTOR POWER



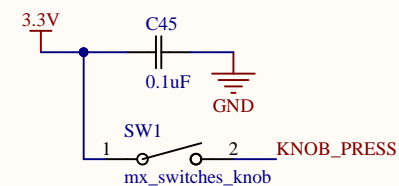
## MAG ENCODER



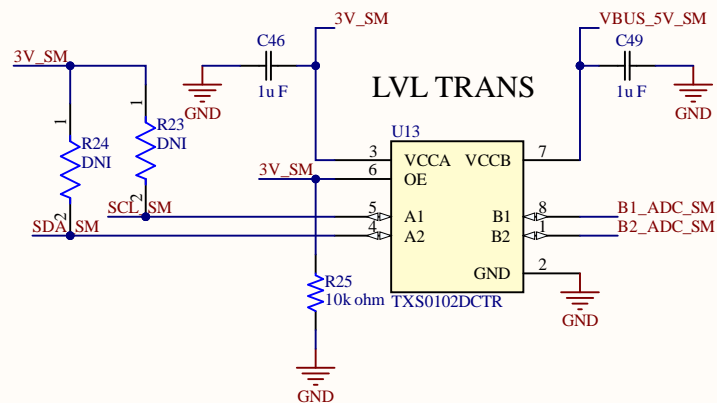
## MOTOR DRIVER



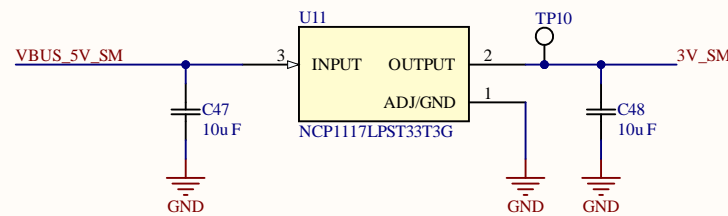
## KNOB BUTTON



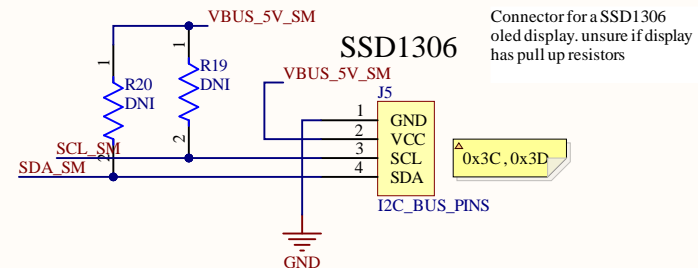
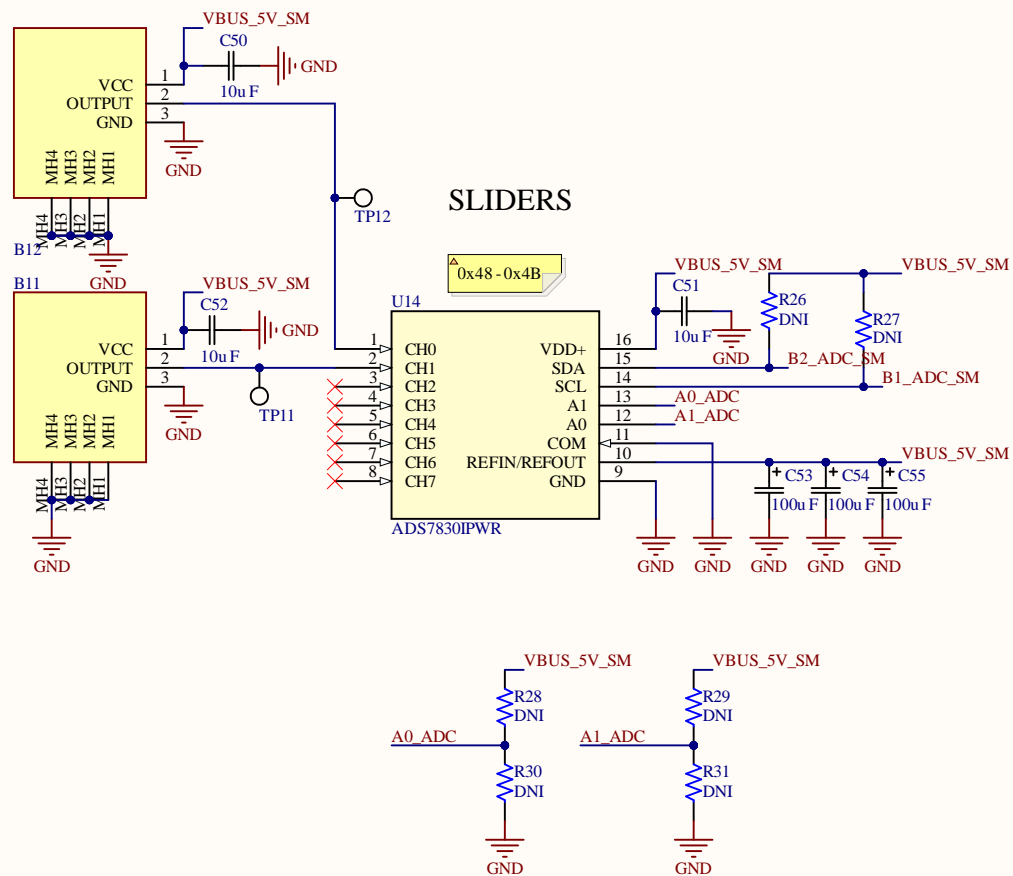
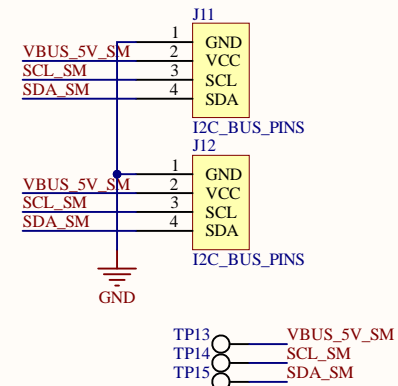
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File:	C:\Users\...\RMP_MAIN_HFB.SchDoc	Drawn By:



## POWER

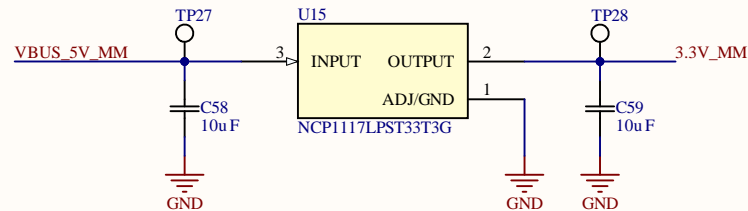
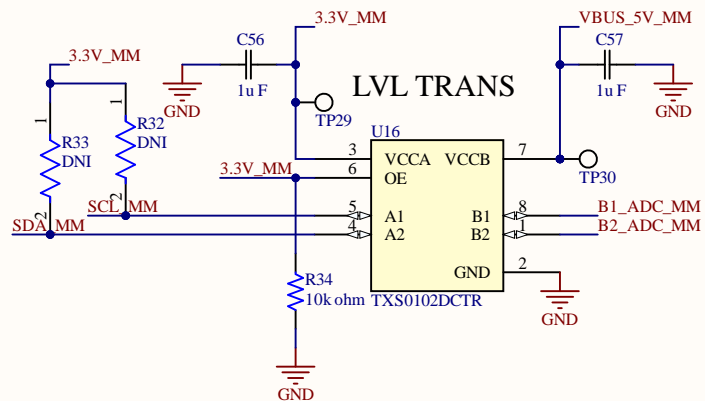


## MODULE CONNECTORS

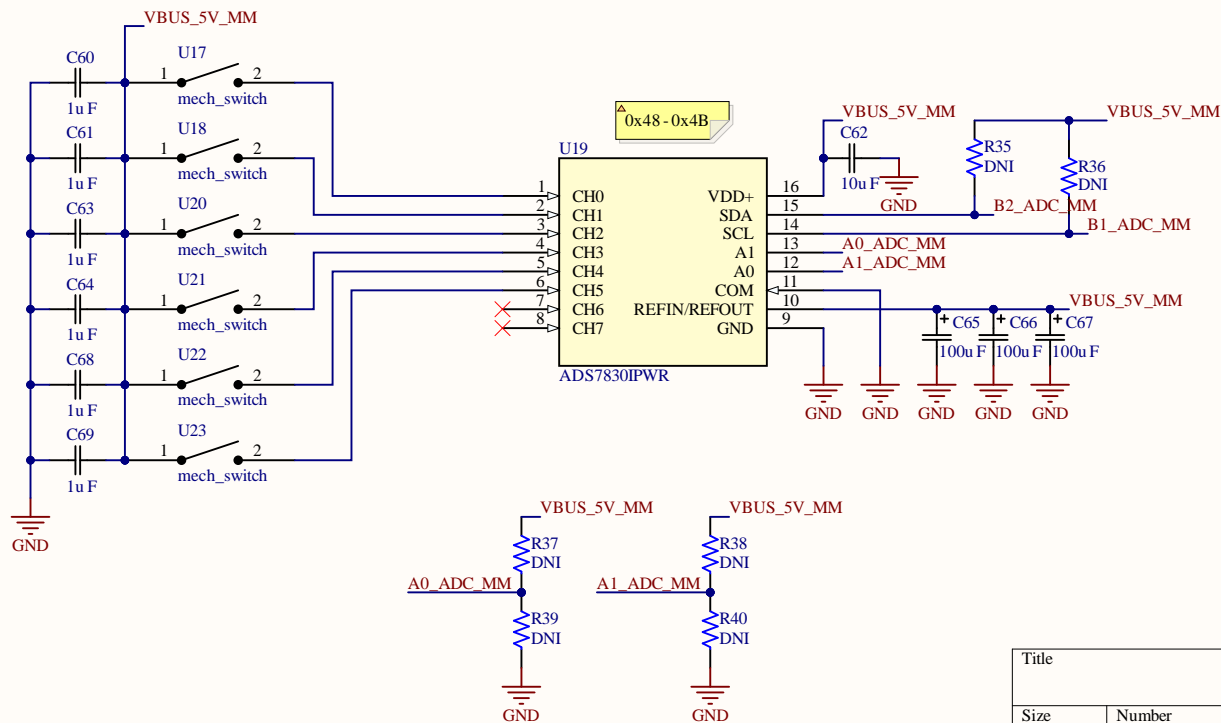
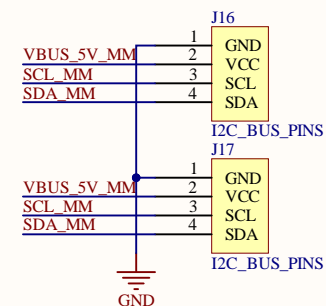


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## POWER

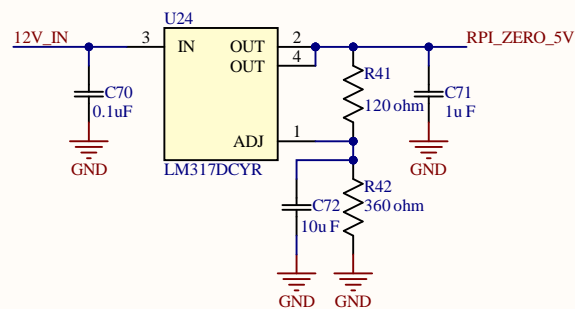
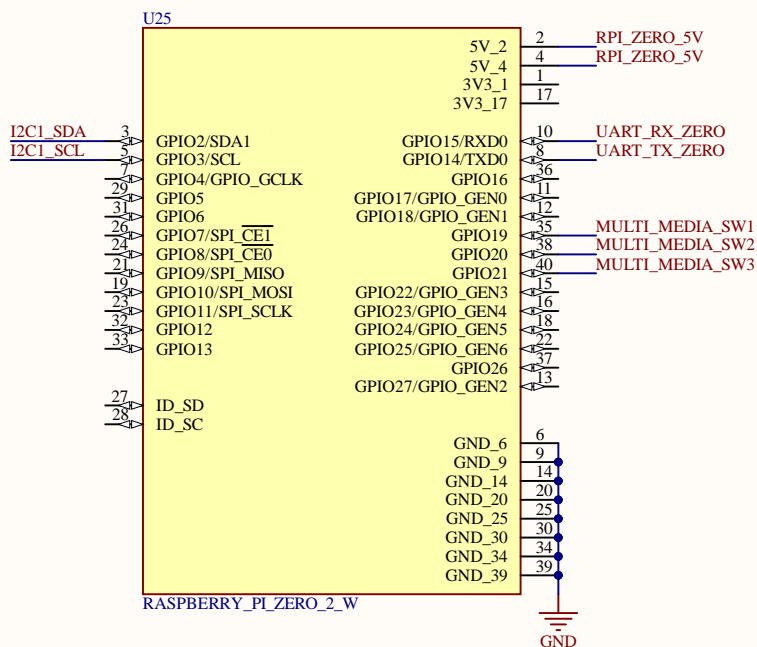


## MODULE CONNECTORS

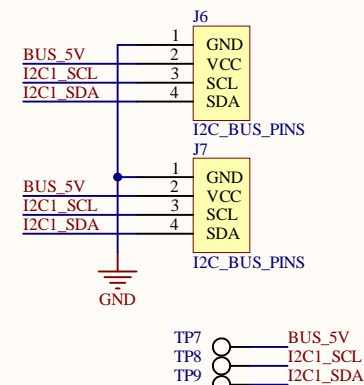


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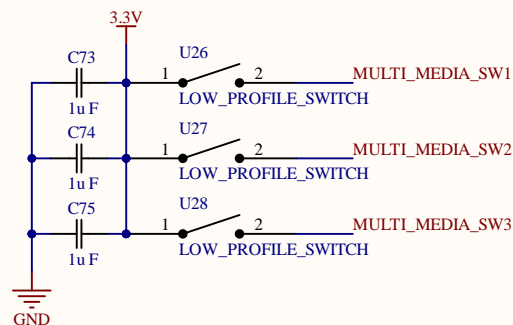
## RPI ZERO CONNECTIONS



## MODULE CONNECTORS

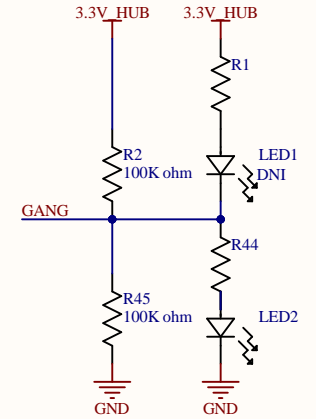
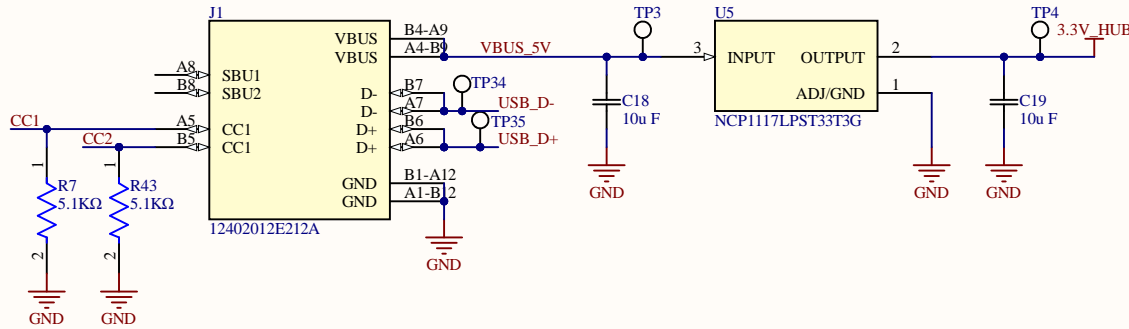


## MULTI MEDIA BUTTONS

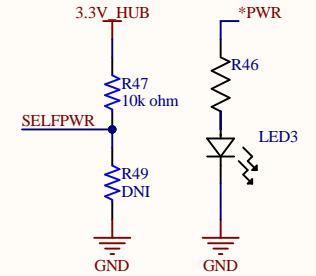
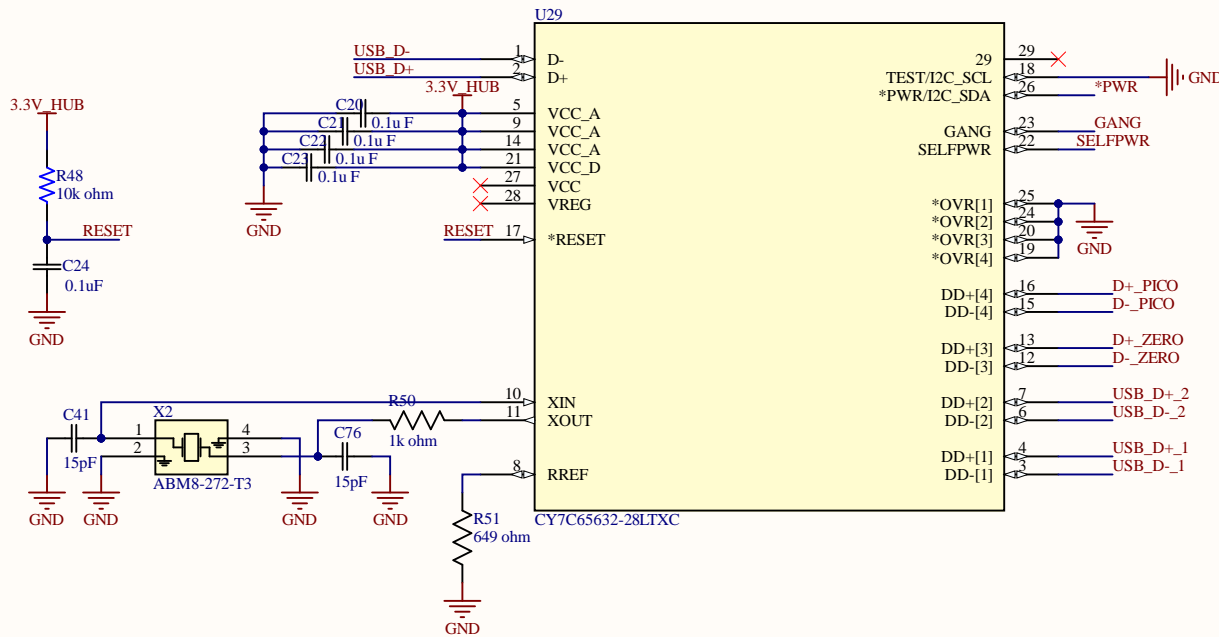


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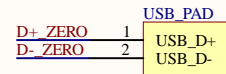
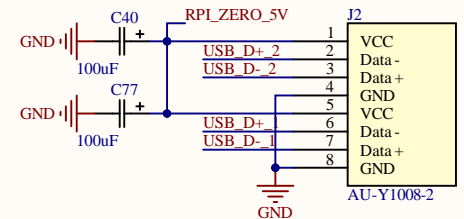
## USBC



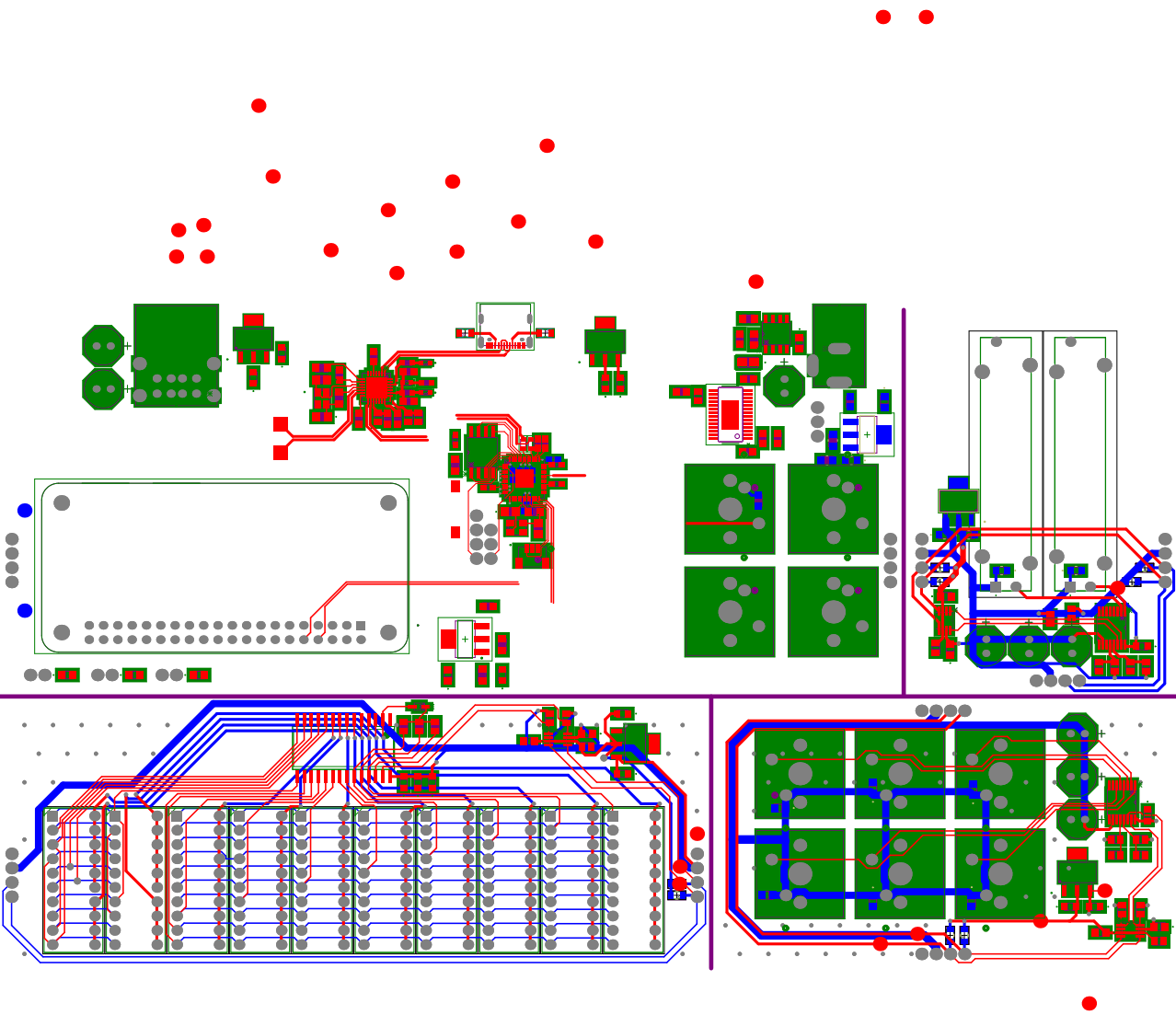
## USB 2.0 HUB



## USB 2.0



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# Board Stack Report