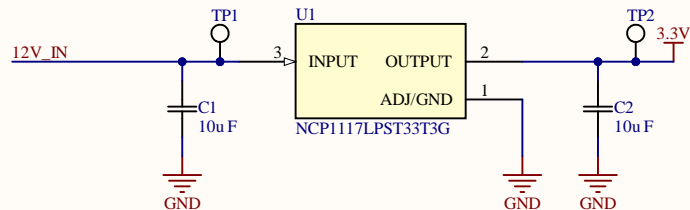
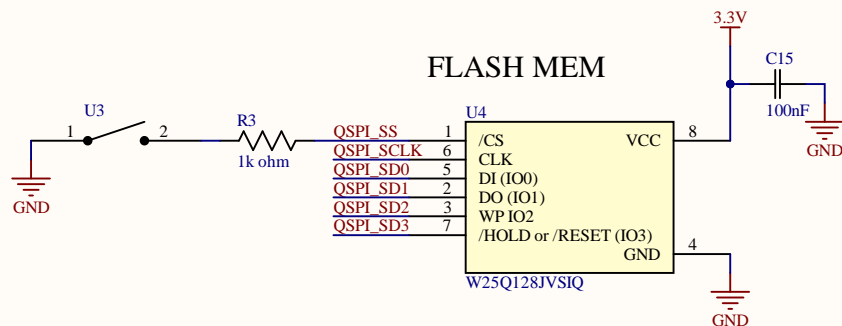


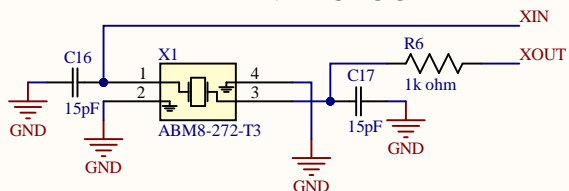
POWER



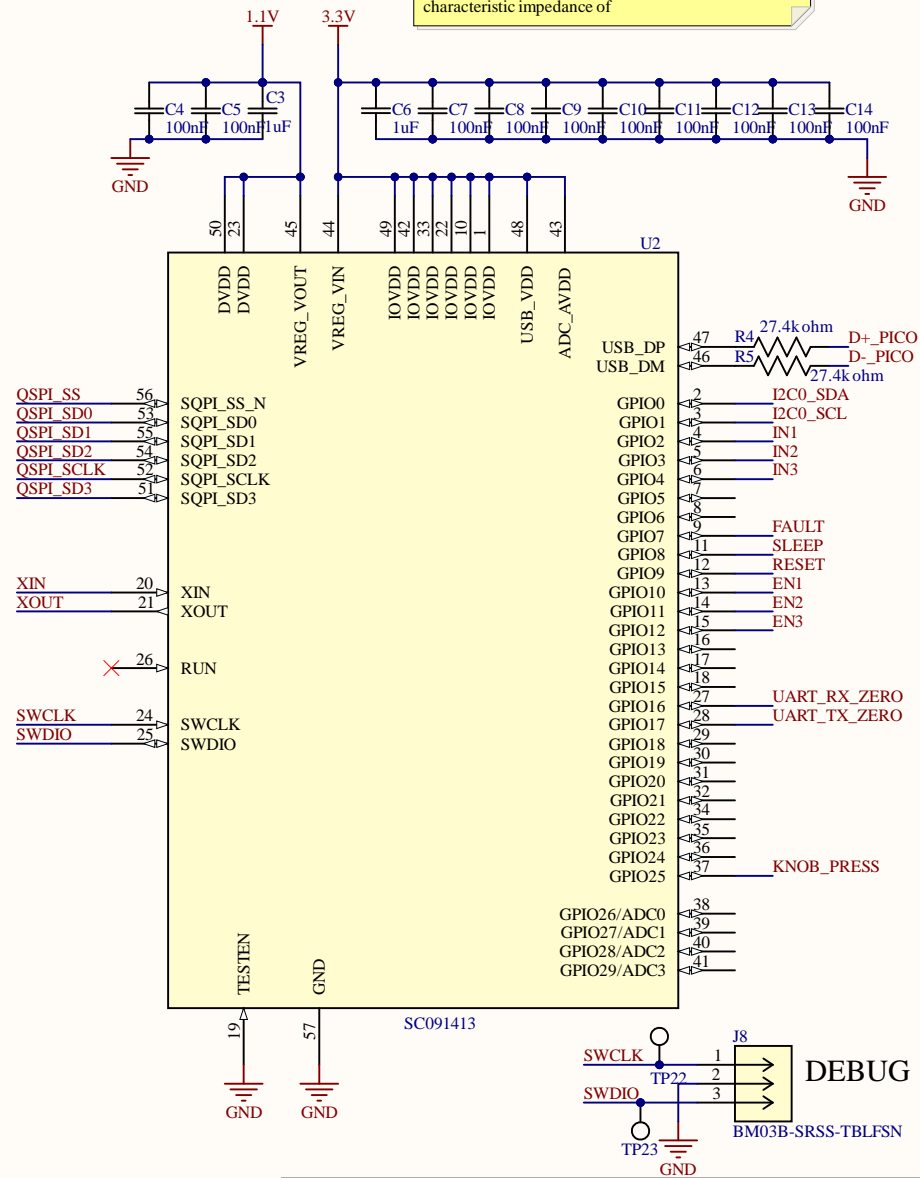
FLASH MEM



EXTERNAL CLOCK

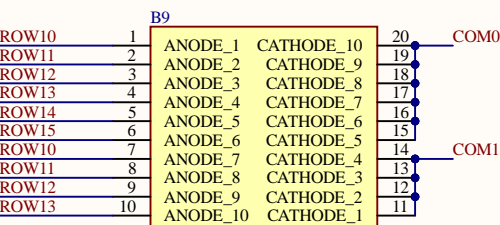
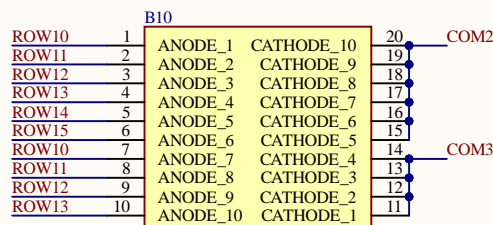
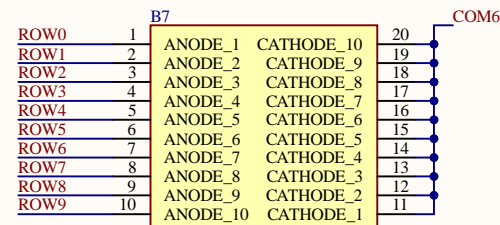
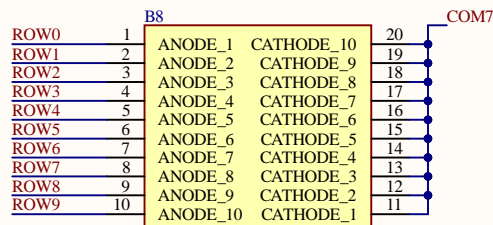
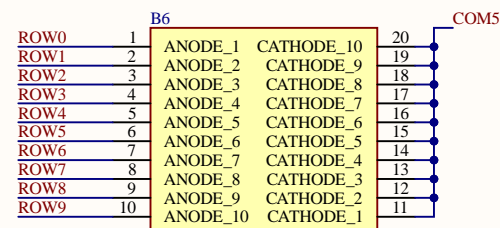
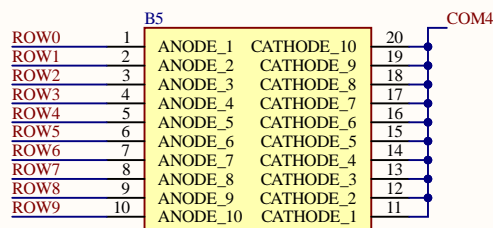
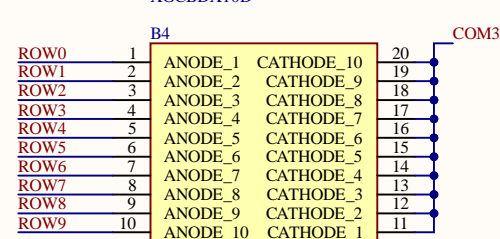
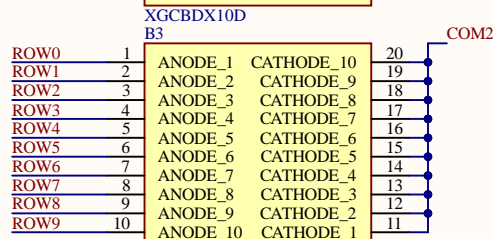
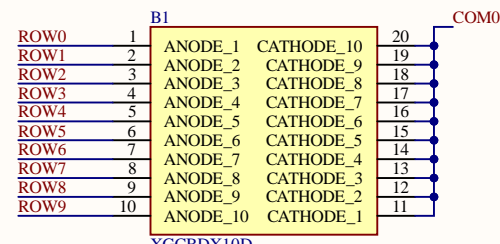
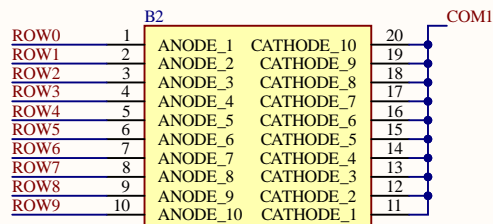
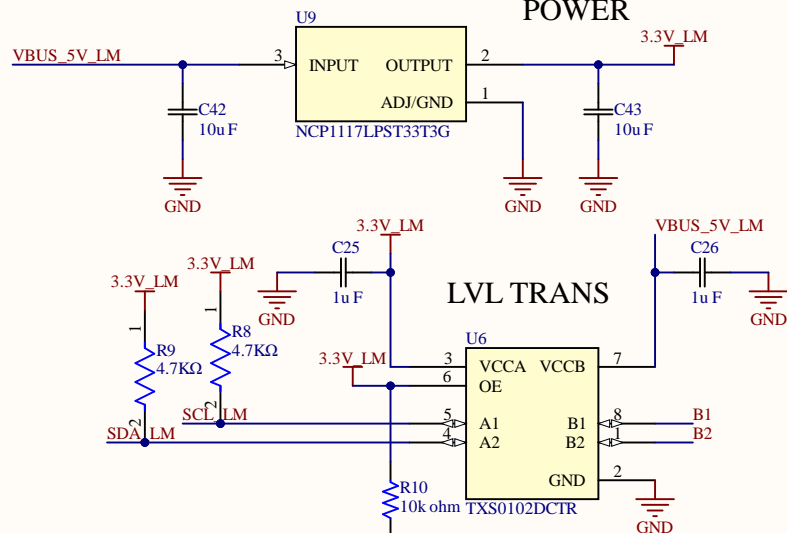


make sure that the characteristic impedance of the transmission lines (the copper tracks connecting the chip to the connector) are close to the USB specification of 90Ω (measured differentially). On a 1mm thick board if we use 0.8mm wide tracks on USB_DP and USB_DM, with a gap of 0.15mm between them,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

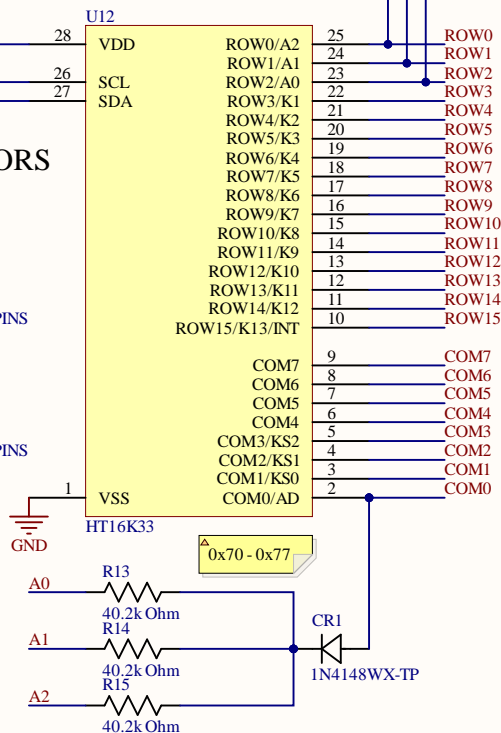
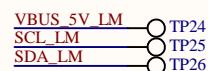
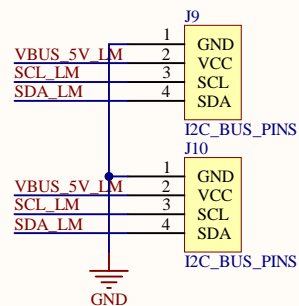


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POWER



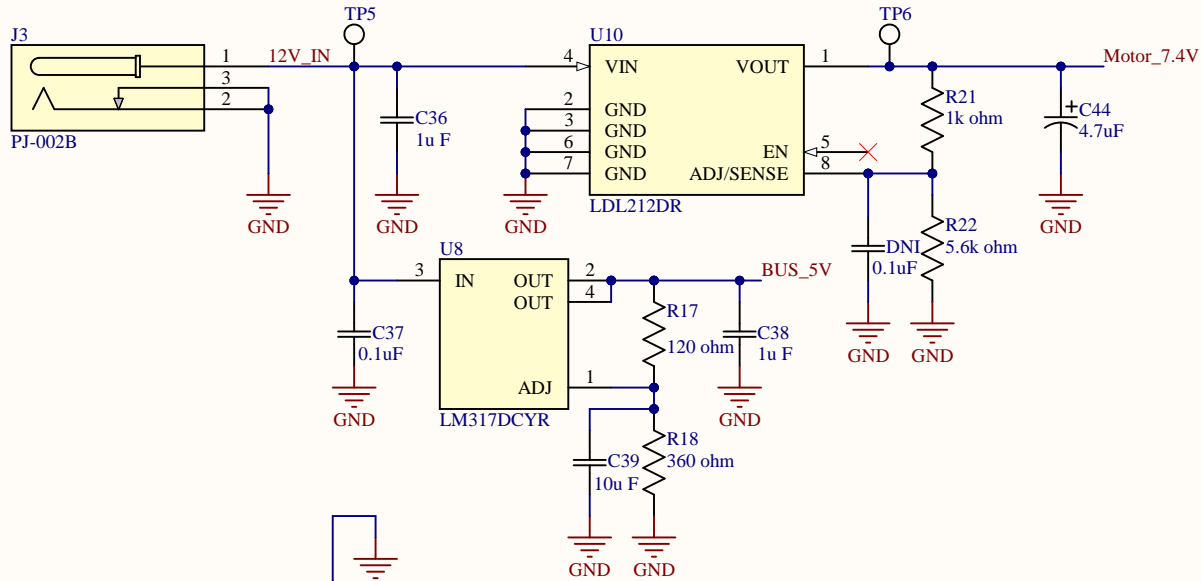
MODULE CONNECTORS



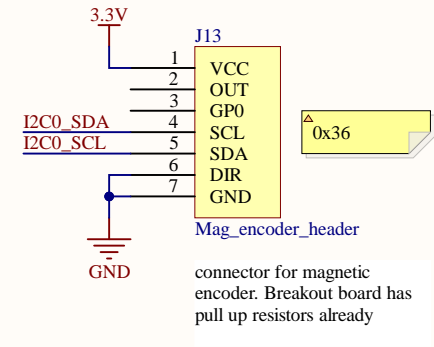
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12V SUPPLY

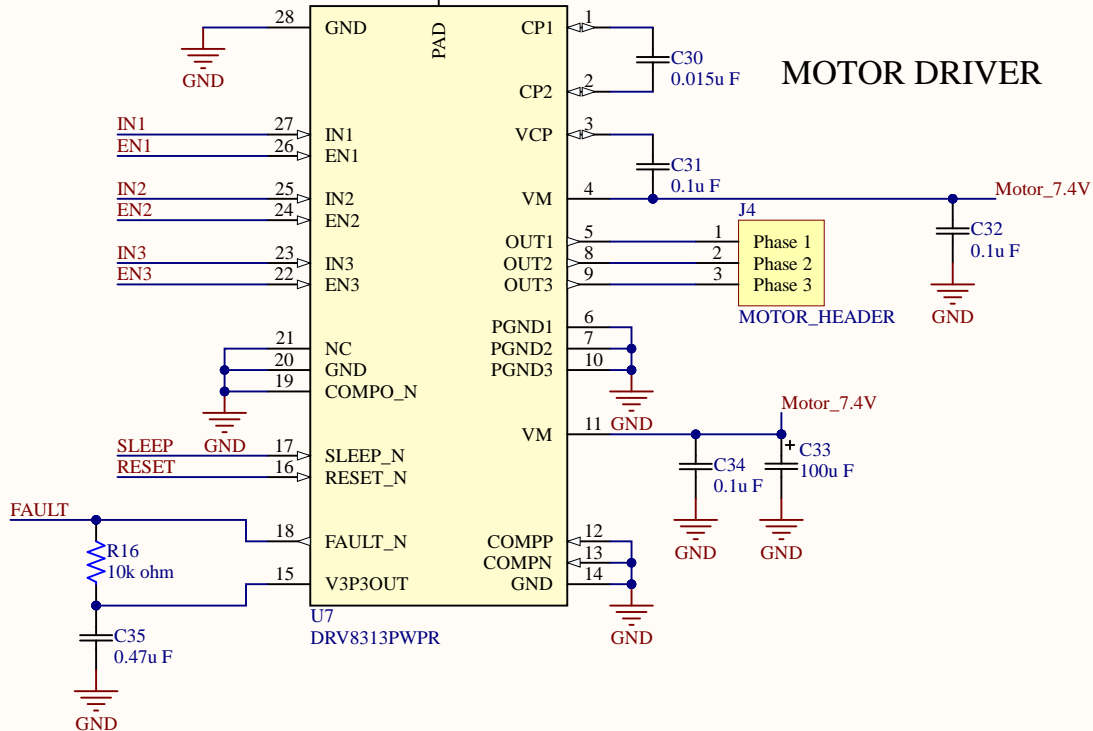
MOTOR POWER



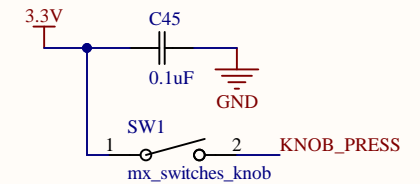
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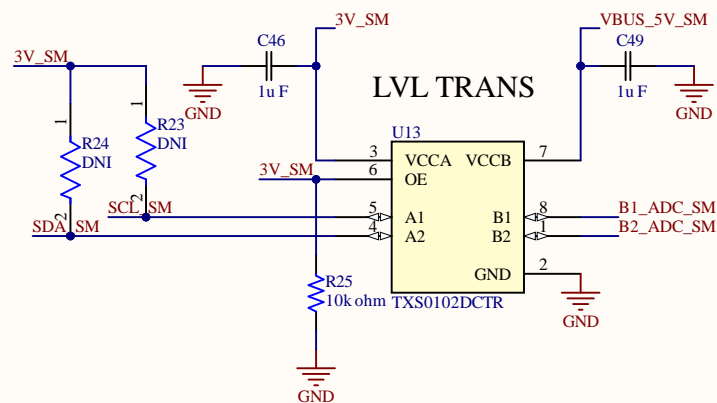
MOTOR DRIVER



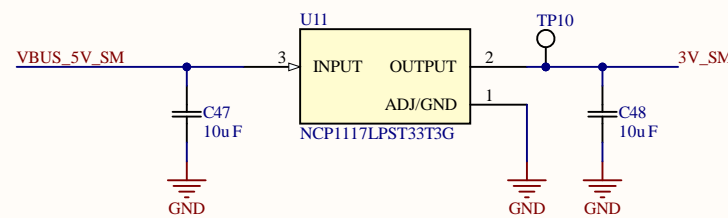
KNOB BUTTON



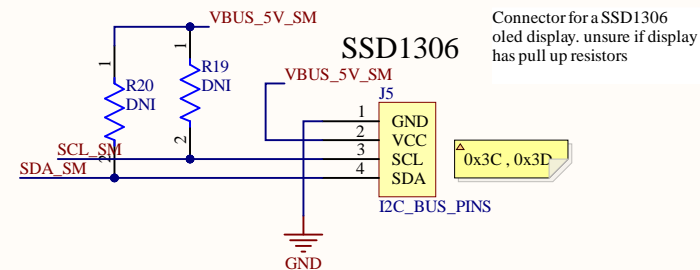
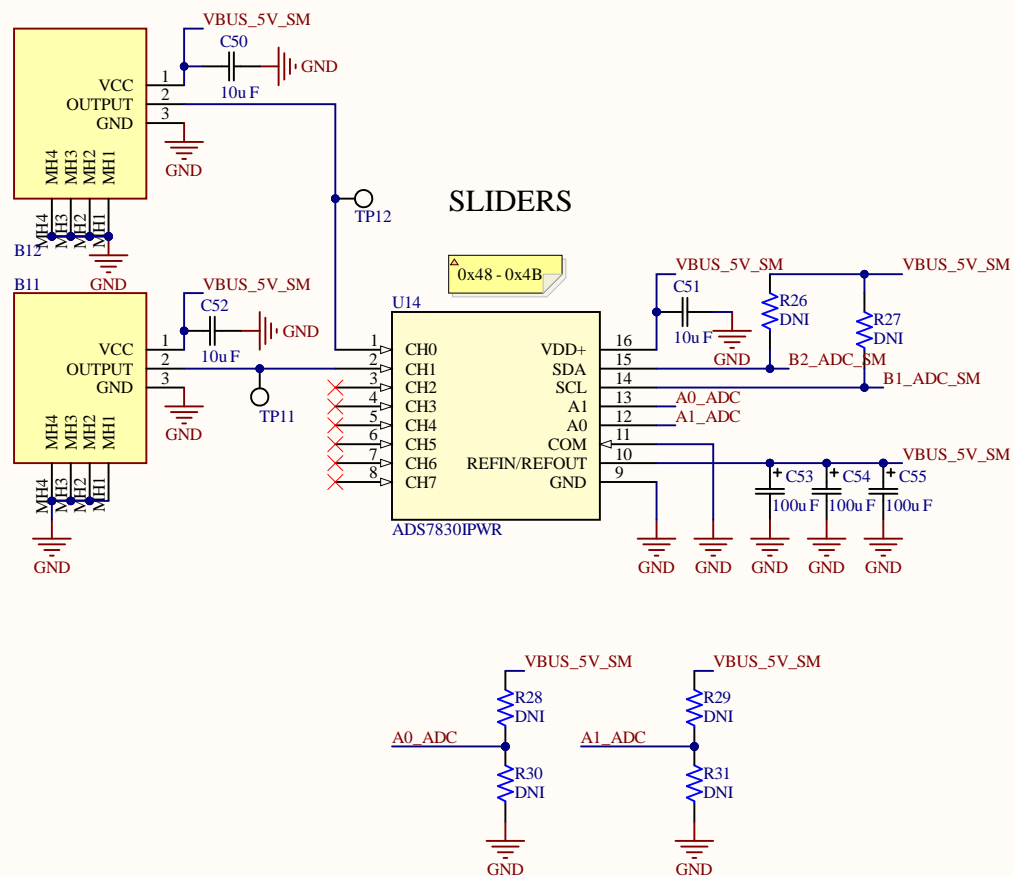
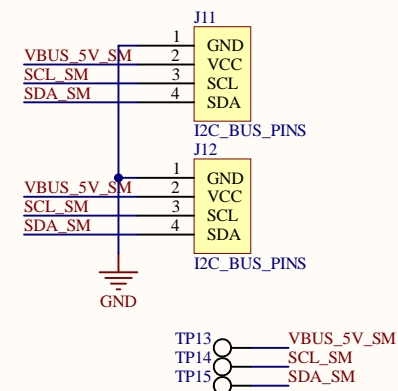
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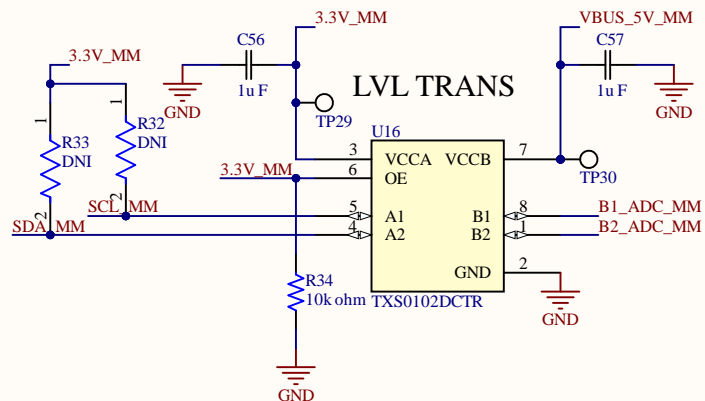
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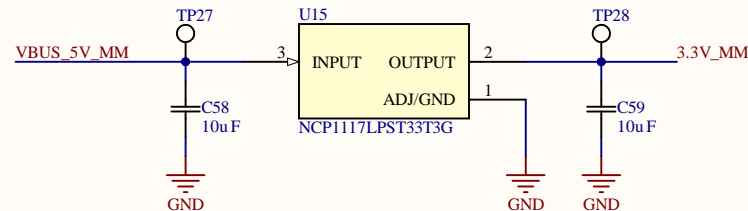
MODULE CONNECTORS



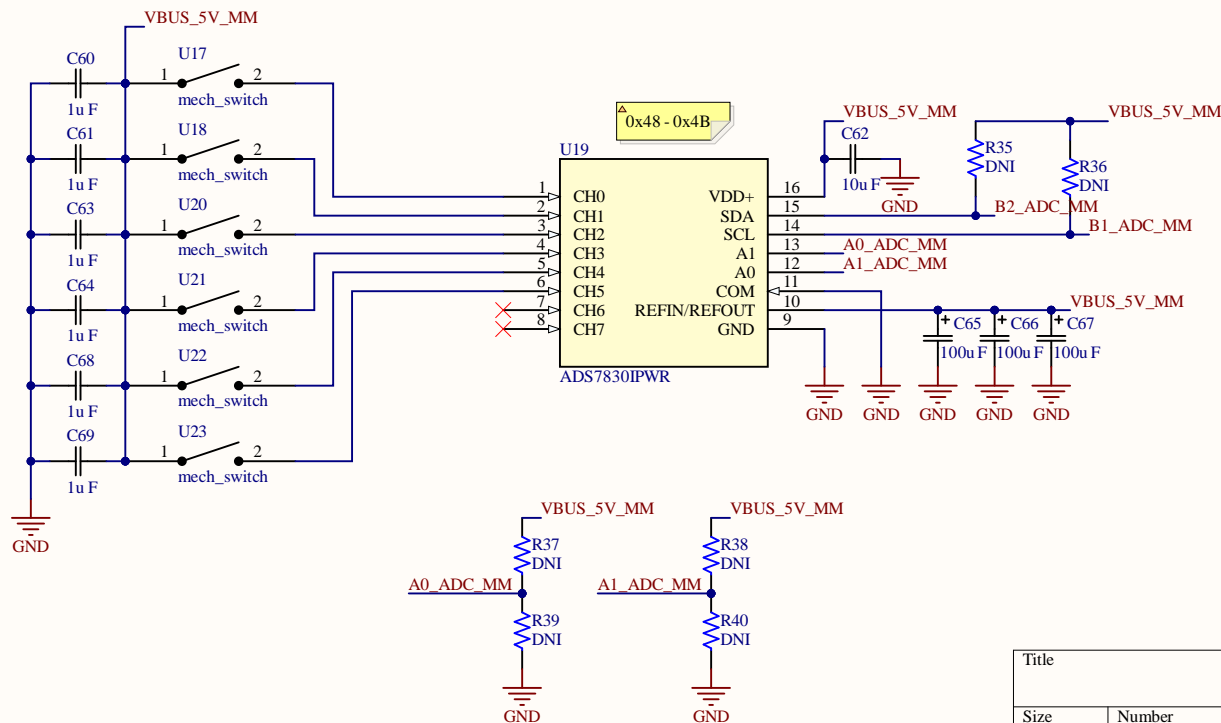
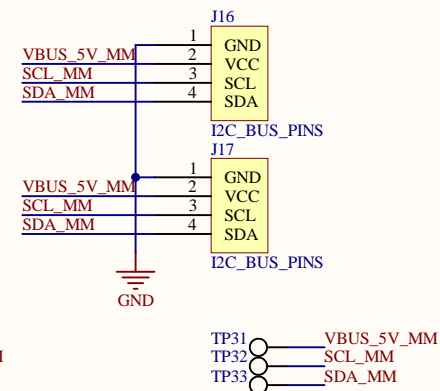
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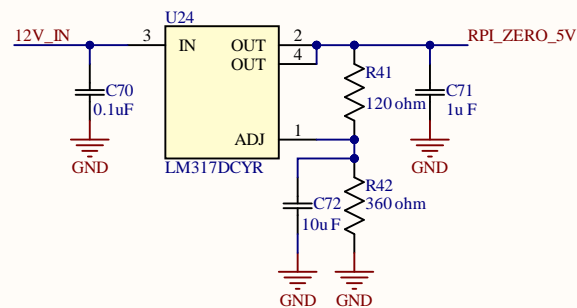
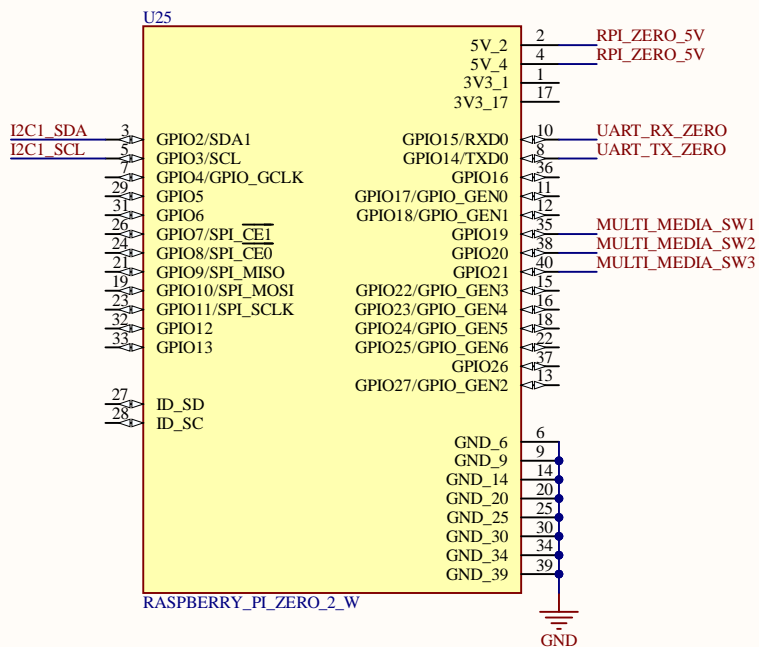


MODULE CONNECTORS

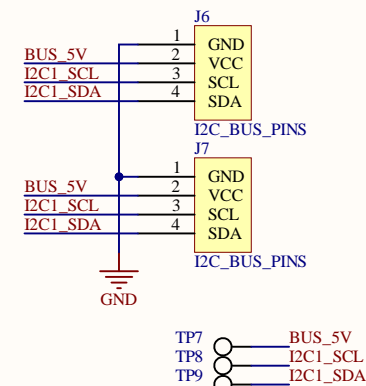


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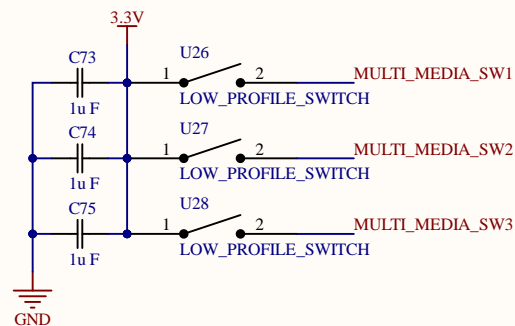
RPI ZERO CONNECTIONS



MODULE CONNECTORS



MULTI MEDIA BUTTONS

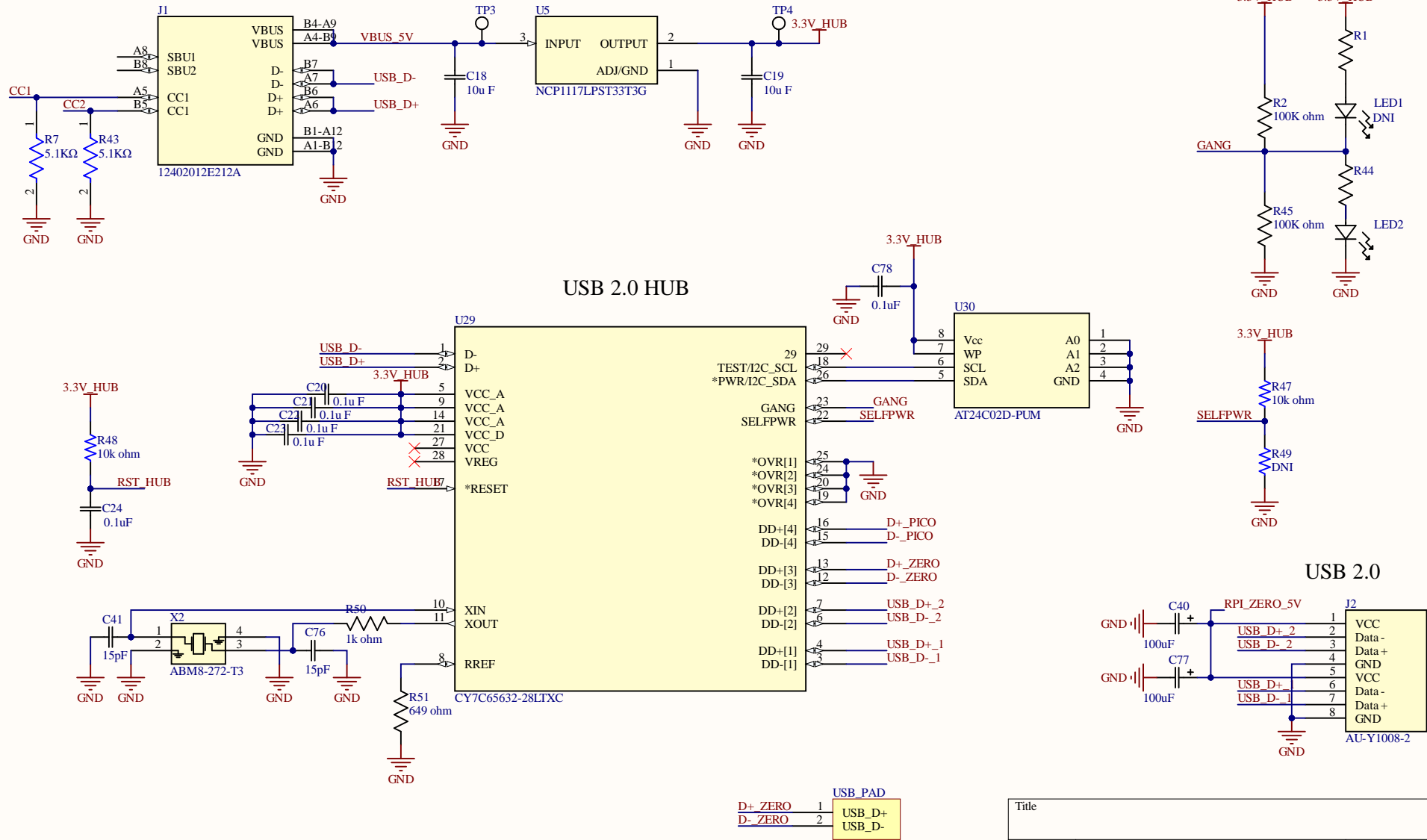


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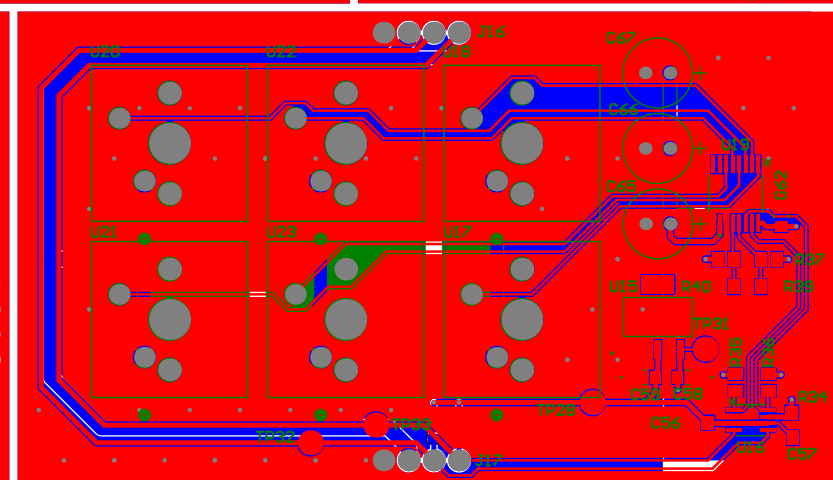
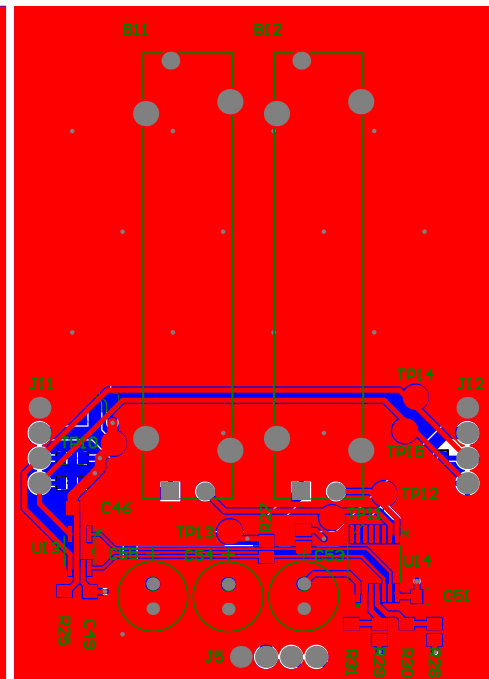
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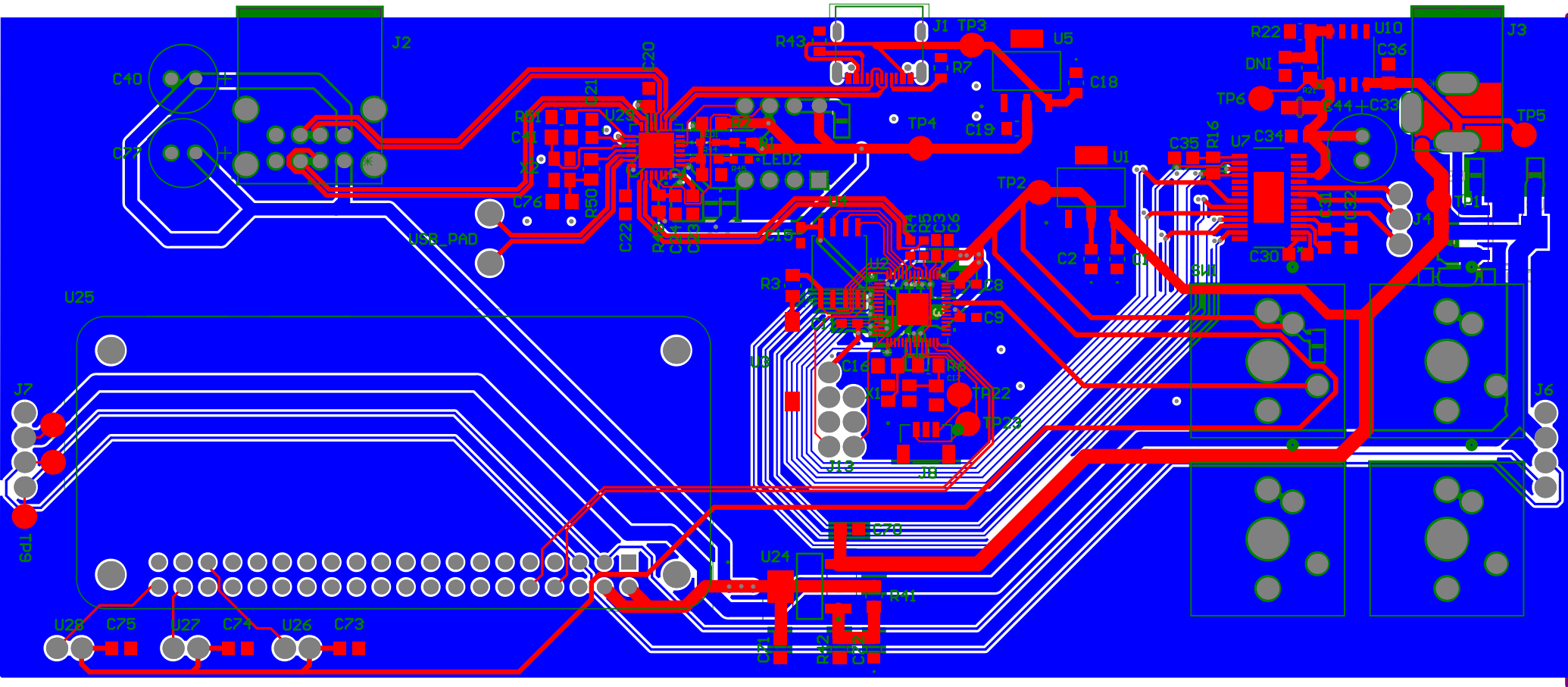
USB 2.0 HUB

USB 2.0



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Board Stack Report