Project: ***BW2098POE***
Current Revision: ***R2M1E2***

BW2098POE Revision History:

Date	Revision	Reason for Change	Changes Implemented
3/4/2020	Iniital Release -> R0M0E0		
5/29/2020	R0M0E0 --> R1M1E1	1) Pull up the EN pin on the 3.3V regulator 2) R1 should be depopulated (PU for MA2485 WAKEUP line) 3) Add ESD protection diodes to the Ethernet lines 4) LEDs labels for "nRST" and "5V" are switched. 5) Polygon 3V3_L01_P425 is underneath GND polygon on Layer 1 and didn't pour correctly (still electrically connected by tracing). 6) J5/J8 are a bit too close for both cable housings 7) RGB camera connector tab hard to get to as it's under the BW2099 8) Label the boot switches 9) KingTop doesn't like the L1 inductor. Says it's too fragile and hard to handle. Try to find alternate.	1) 3.3V regulator EN pin pulled high to 5V 2) Depopulated R1 on Production variant 3) Added pads for ESD protection diodes on ethernet diff pairs 4) Swapped "nRST" and "5V" labels on overlay and added netnames to LEDs in schematic to help prevent this in the future. 5) Removed polygon and thickened traces 6) Increased connector spacing by 50mils to allow clearance 7) Moved connector 2mm right to make it a bit easier to grab the latch. Still not great, but better. 8) Added overlay labeling for each BOOT[4:0] and GPIO58 9) Moved the L1 inductor to L1 on layout so it wasn't so exposed to impacts. Did not change PN or schematic.
7/23/2020	R1M1E1 --> R2M1E2	1) C35 preventing bridge from functioning properly. 2) Labeling of "GPIO6" is incorrect. Should be "GPIO8"	1) Removed C35 from PCB and BOM. 2) Changed references of GPIO6 to GPIO8. No physical change to PCB.

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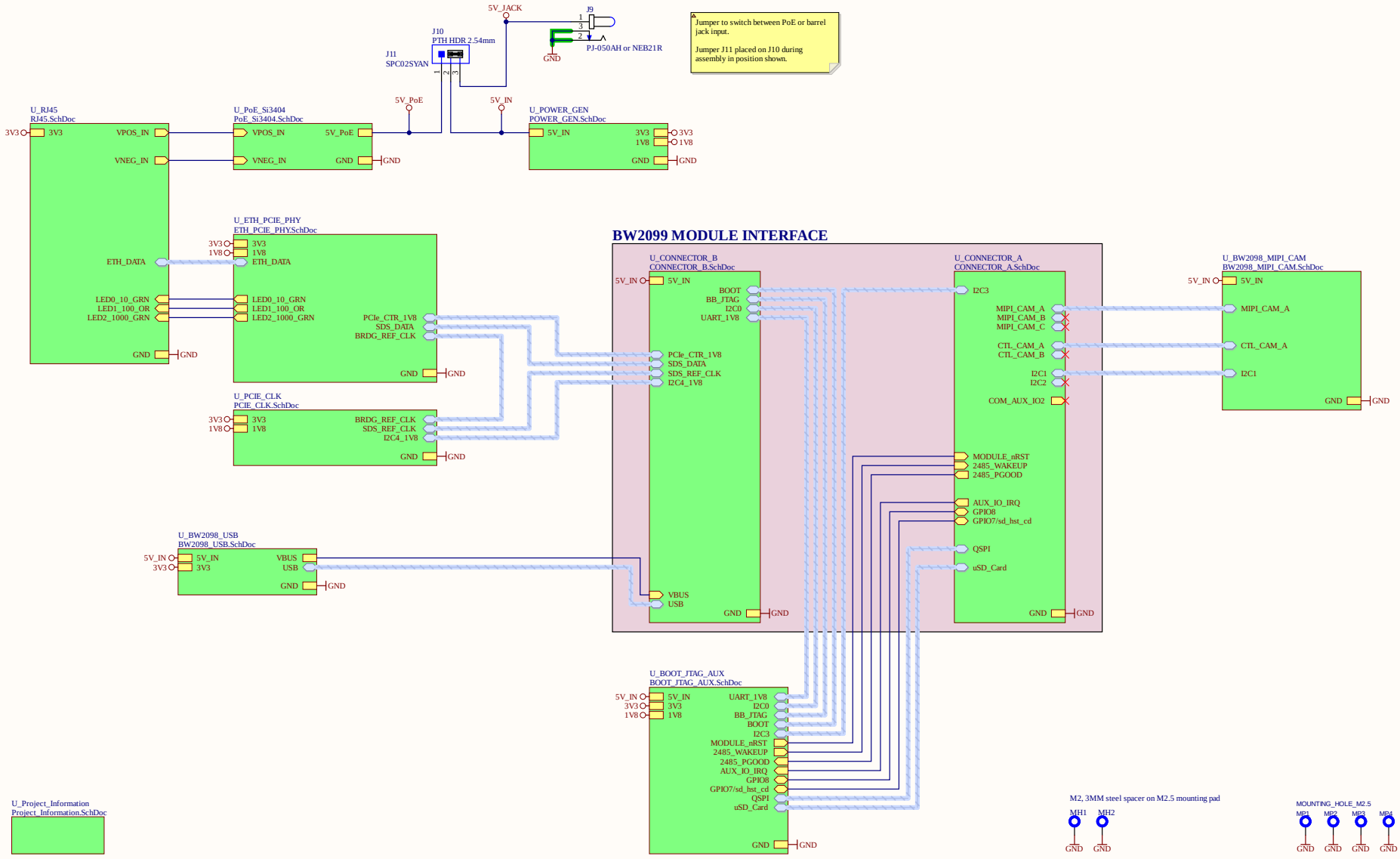
Date: 7/23/2020 Time: 3:20:27 PM	Sheet 1 of 12		
Drawn by: ***Brian Weinstein***			



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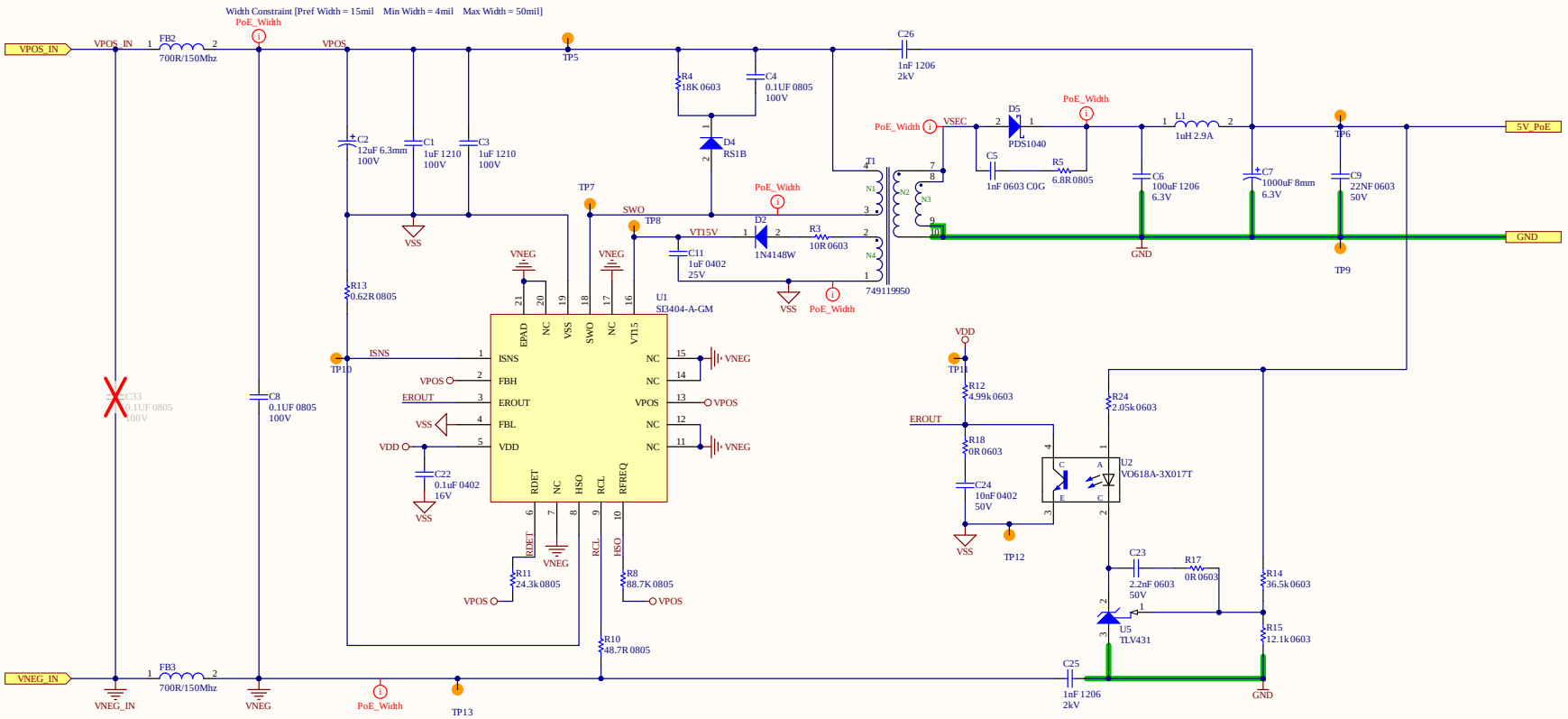

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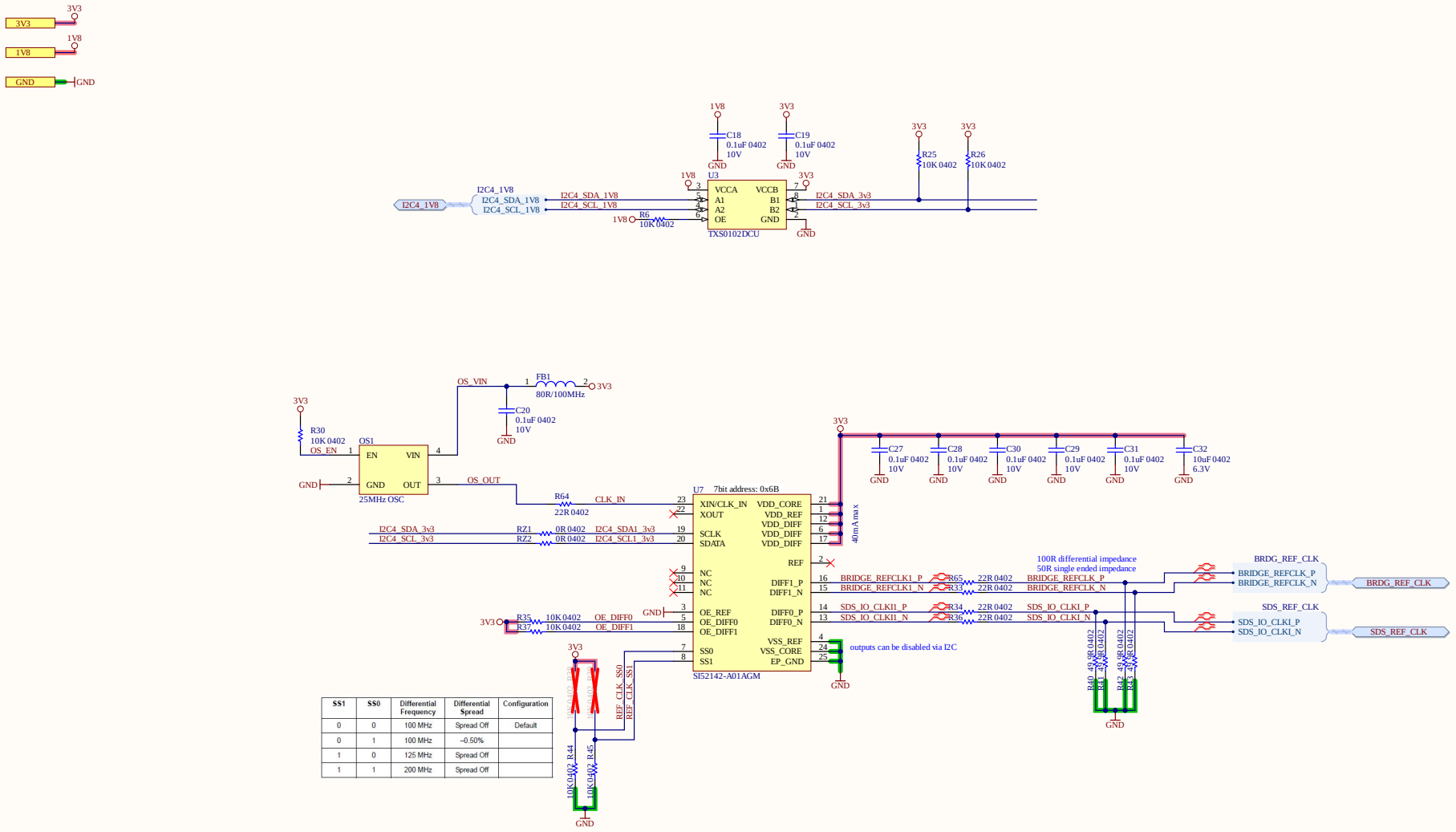

SS1	SS0	Differential Frequency	Differential Spread	Configuration
0	0	100 MHz	Spread Off	Default
0	1	100 MHz	–0.50%	
1	0	125 MHz	Spread Off	
1	1	200 MHz	Spread Off	

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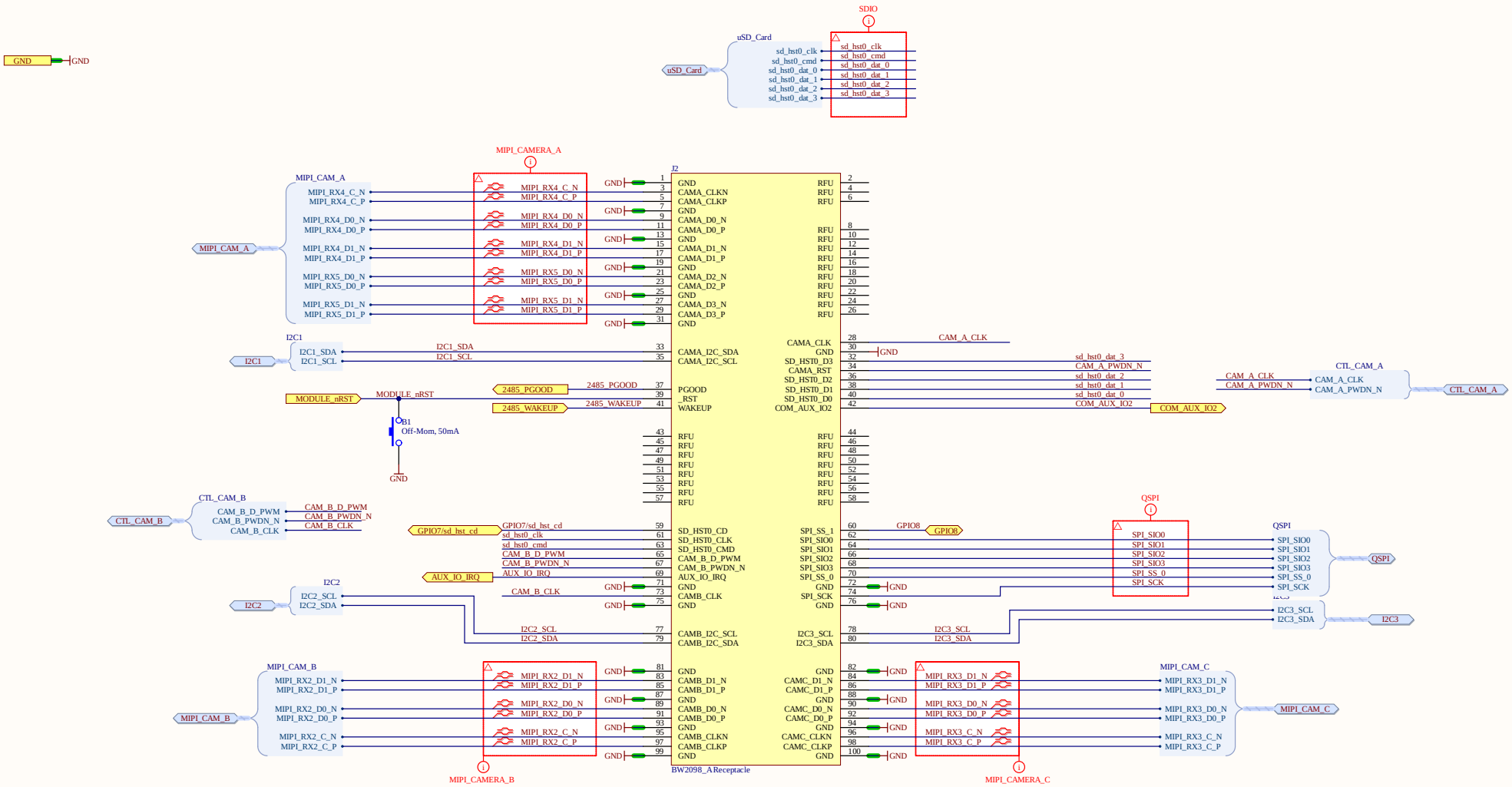

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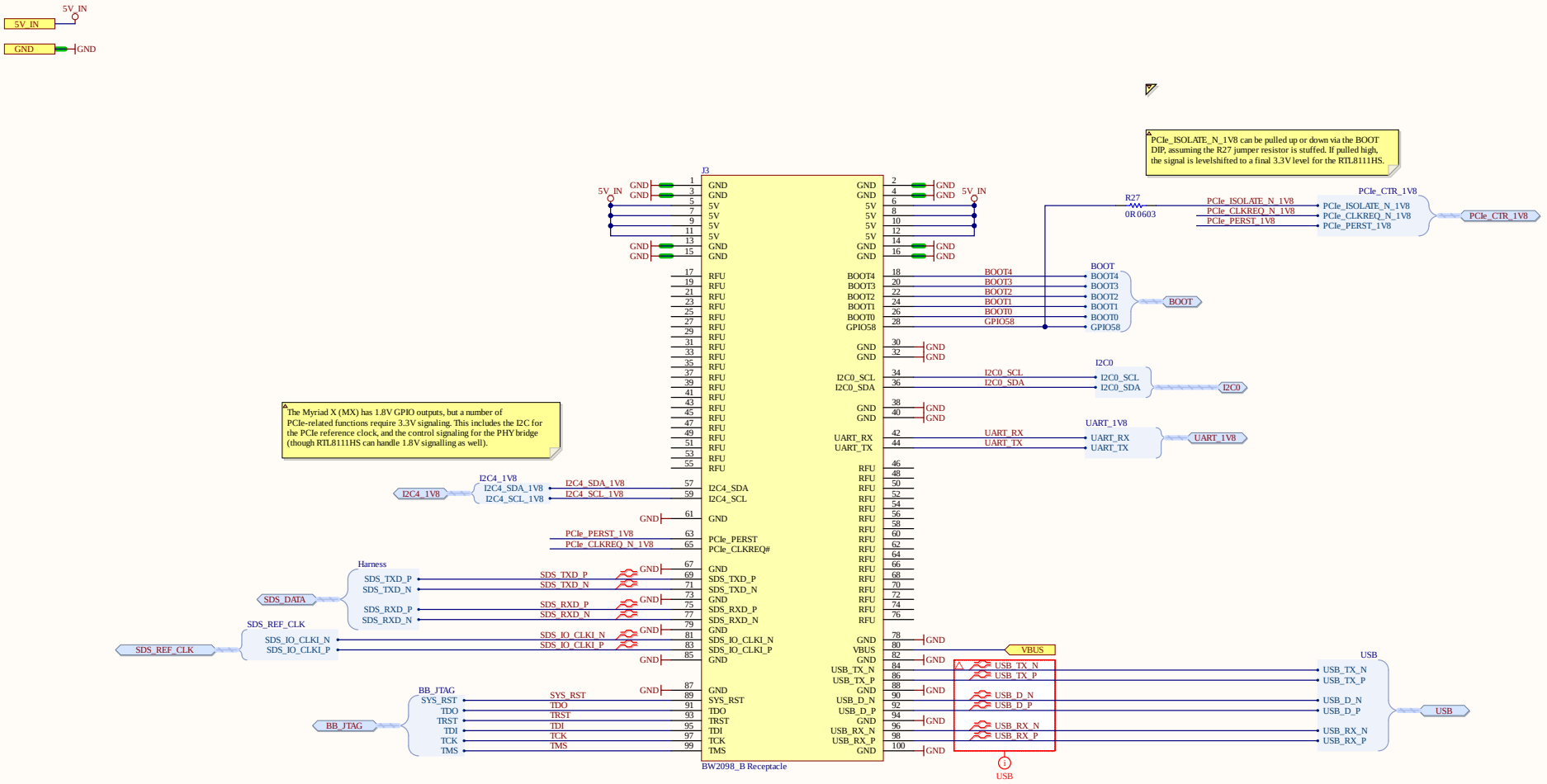

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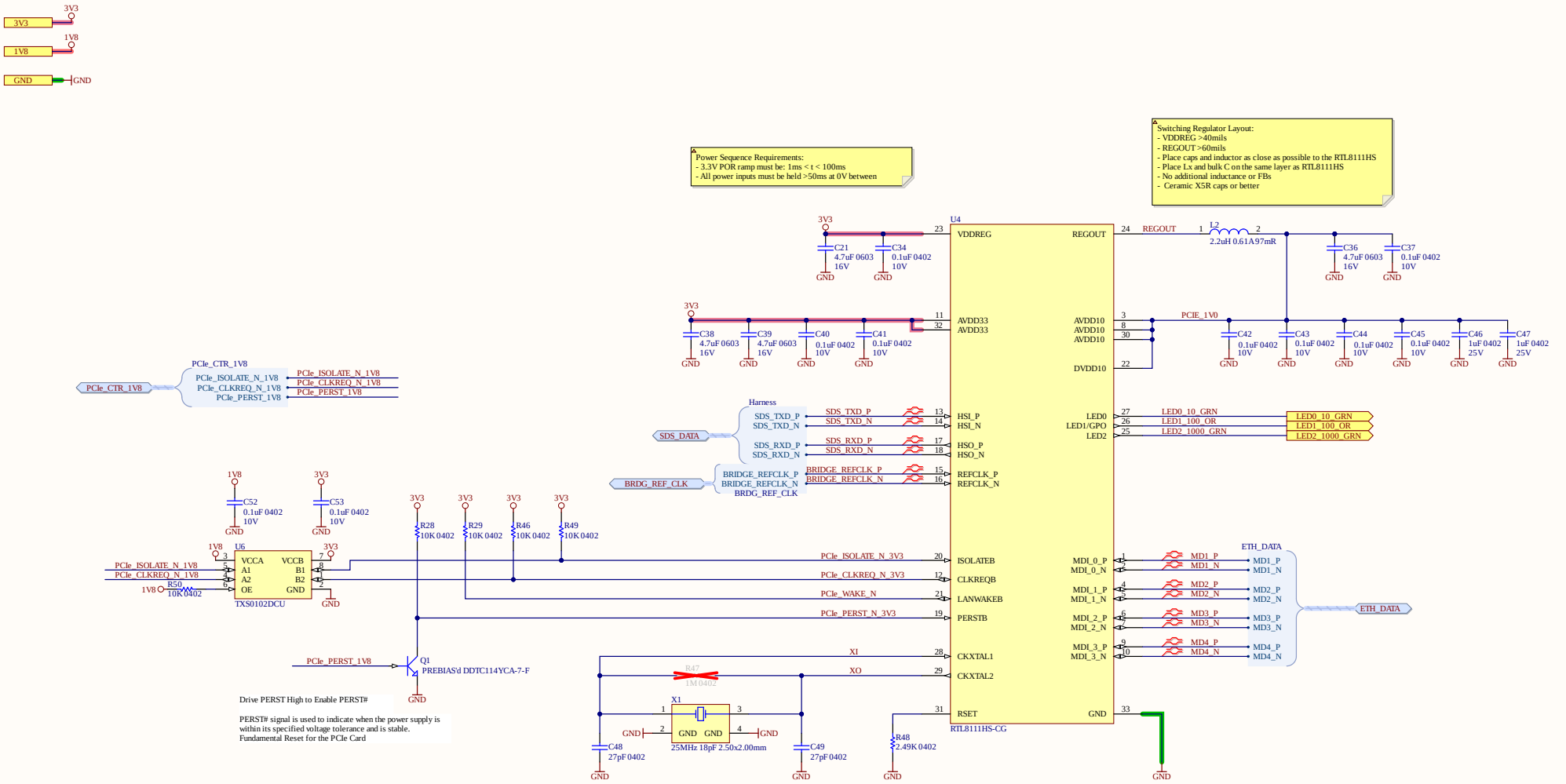

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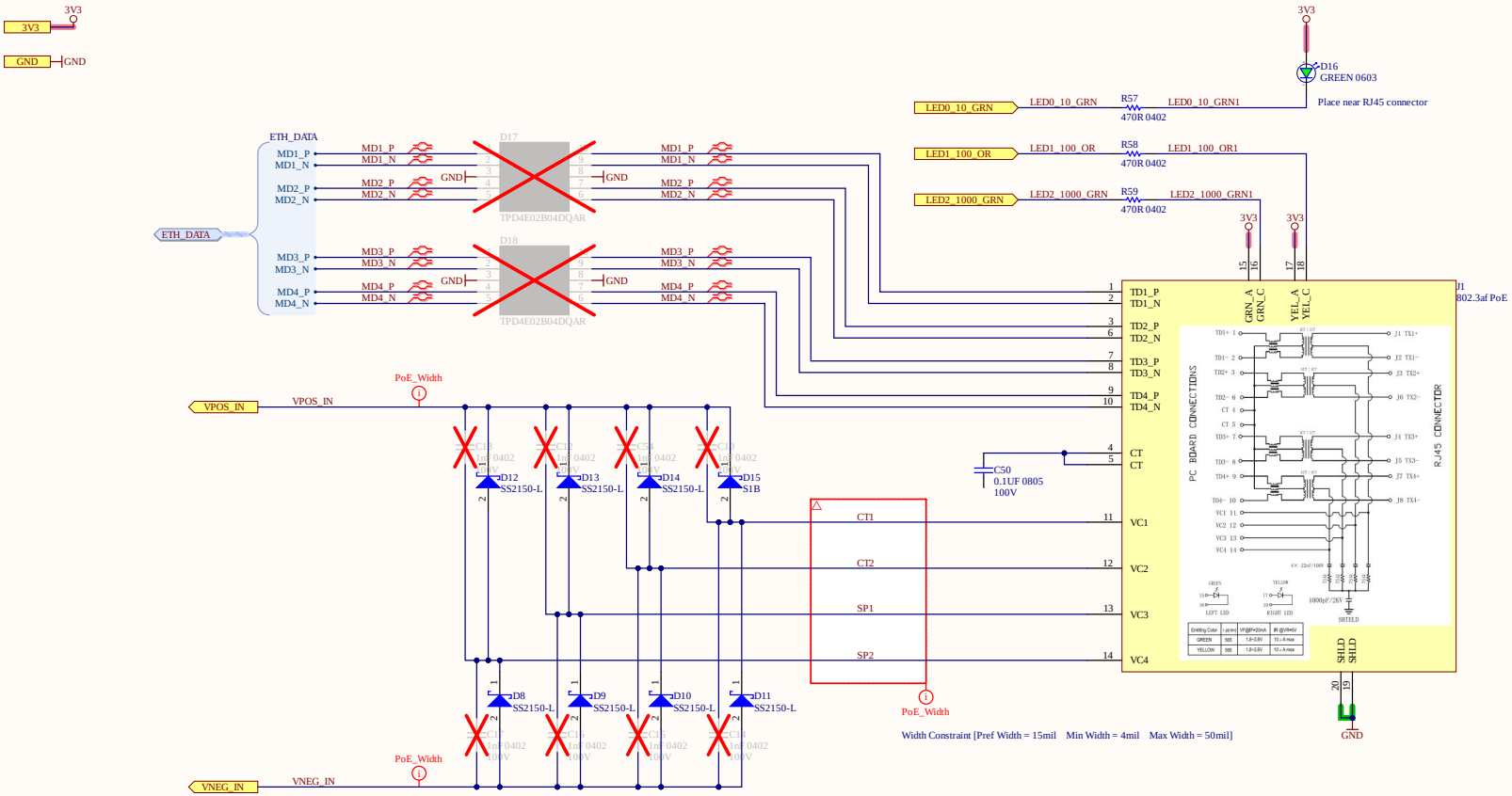

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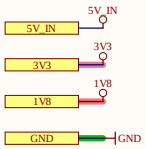
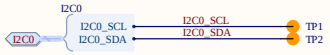
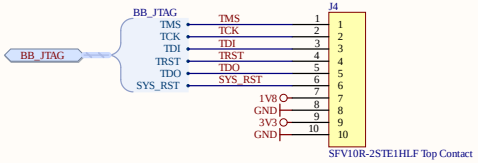
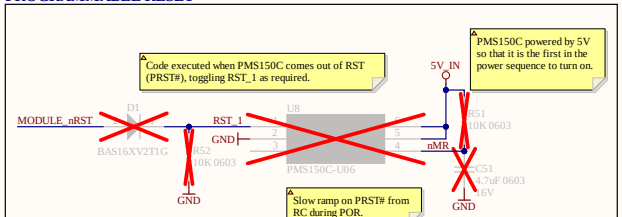




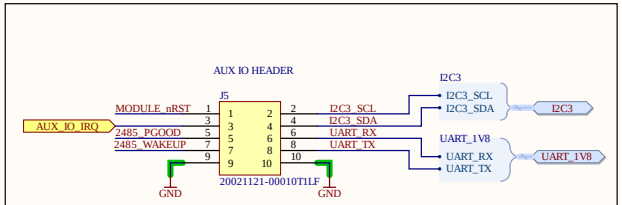
LED INDICATORS



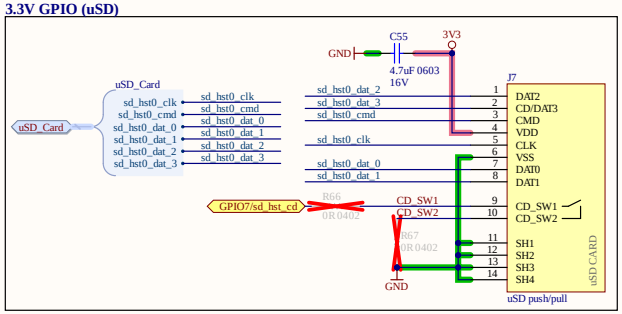
PROGRAMMABLE RESET



AUX IO HEADER



3.3V GPIO (uSD)



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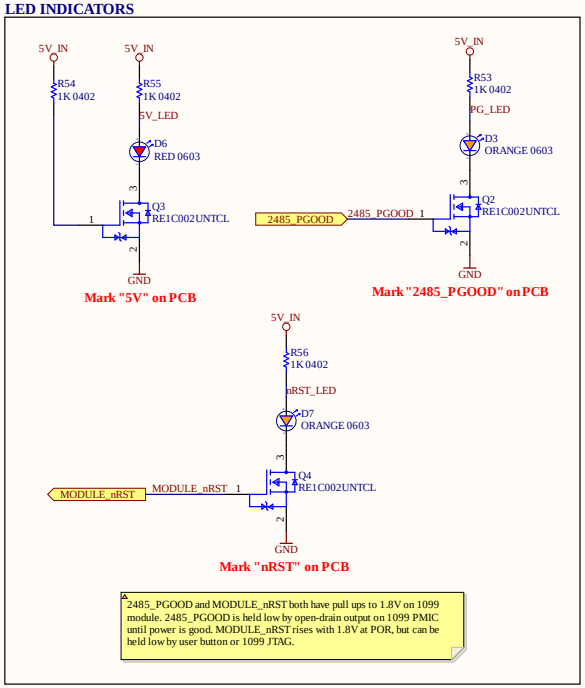
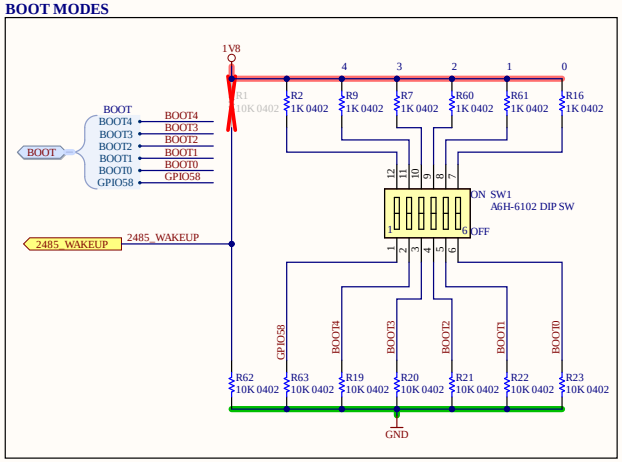
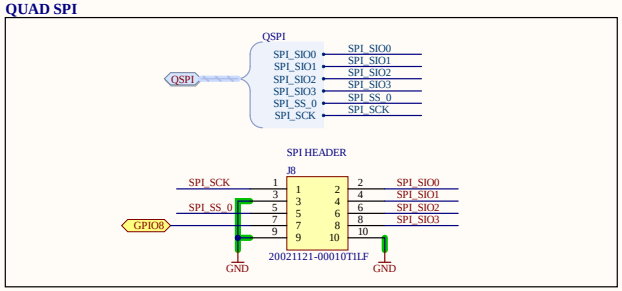


BOOT MODES



QUAD SPI



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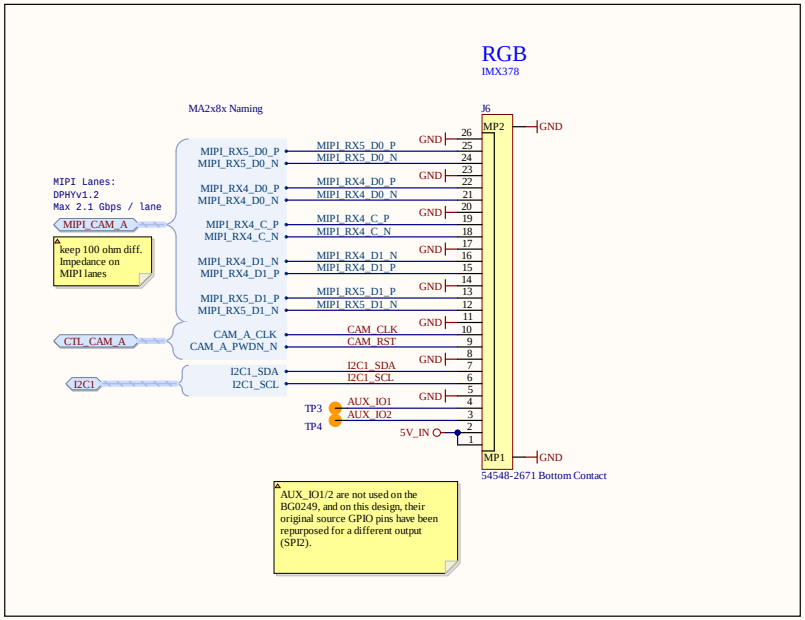
RGB CAMERA



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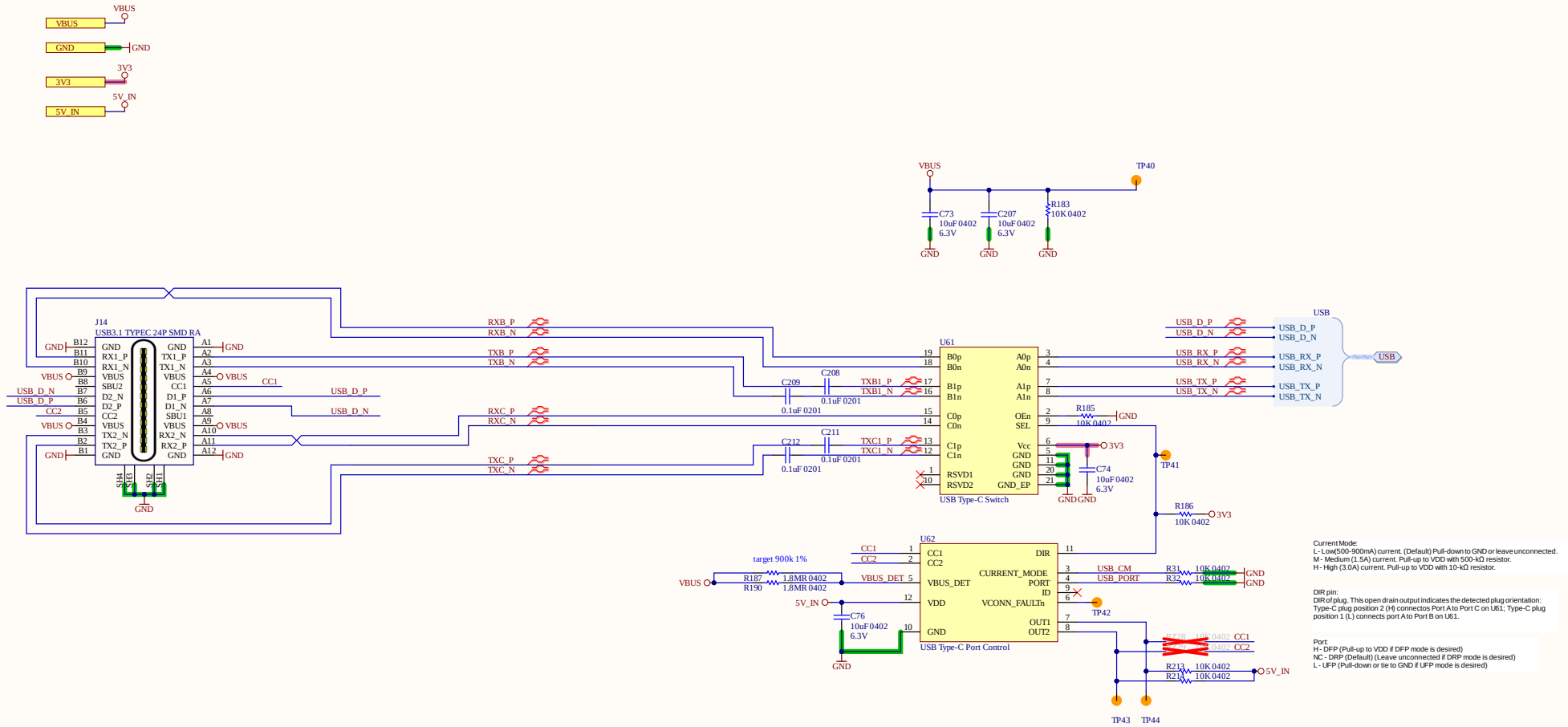

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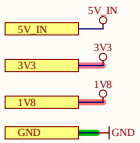

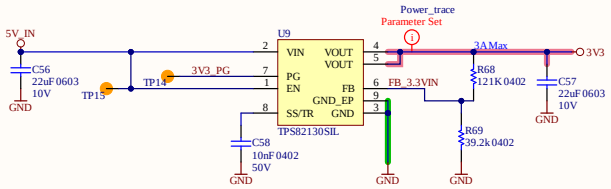

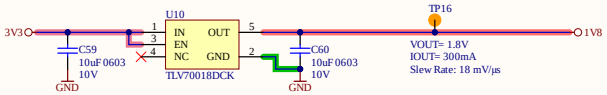

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