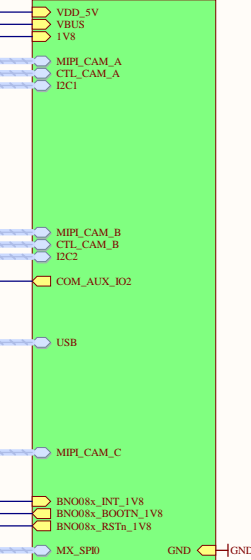
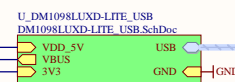
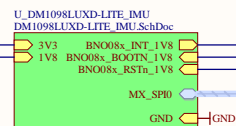
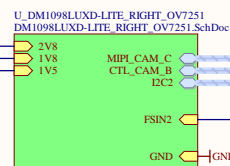
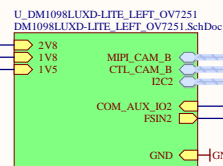
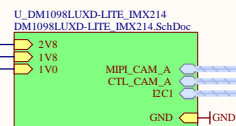


Project: *DM1098LUX-D-LITE*
Current Revision: *R0M0E0*

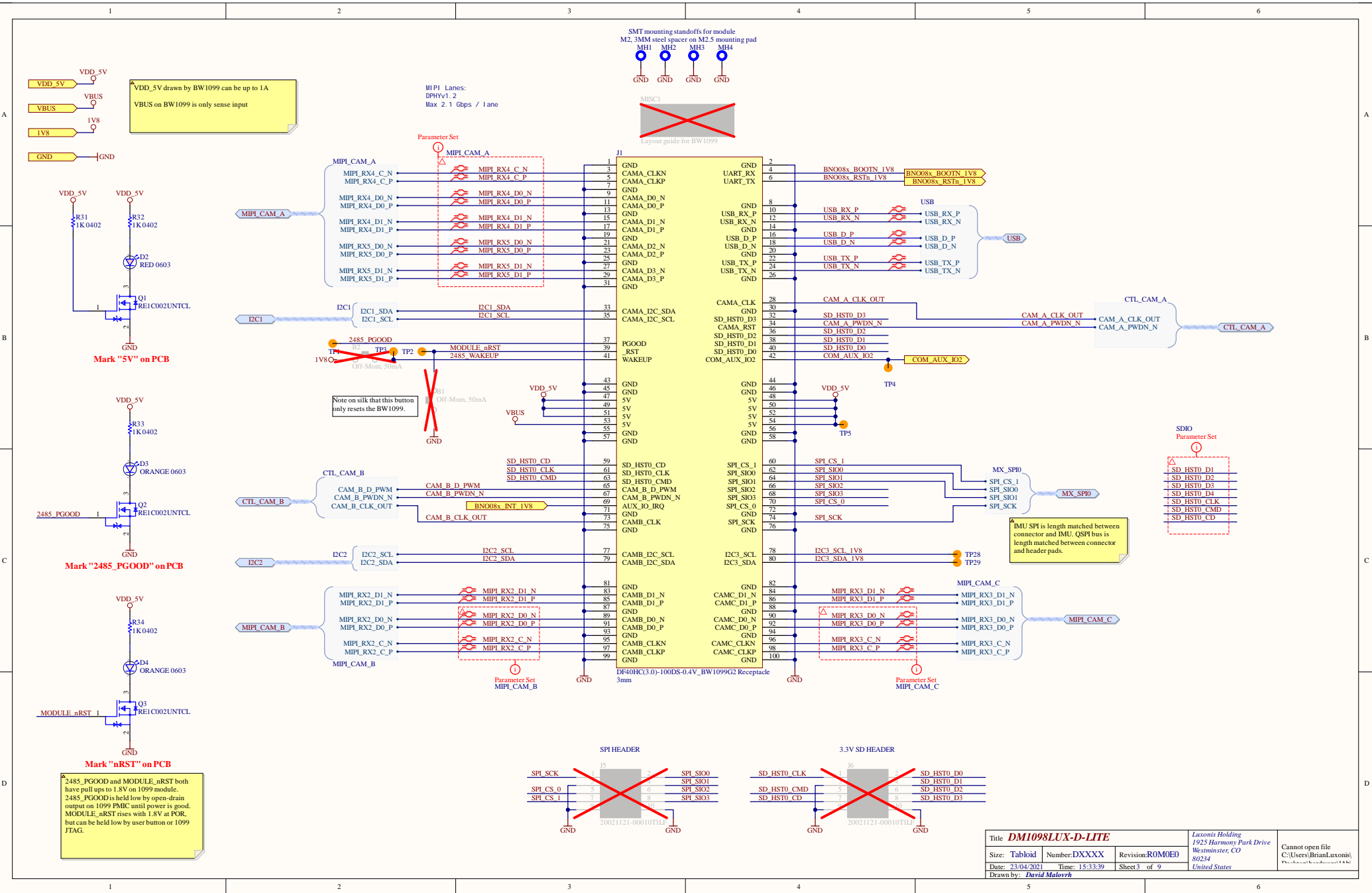
DM1098LUX-D-LITE **Revision History:**

Date	Revision	Reason for Change	Changes Implemented
04/22/2021	Initial release		

Title <i>DM1098LUX-D-LITE</i>			Luxonis Holding 1925 Harmony Park Drive Westminster, CO 80234 United States		Cannot open file C:\Users\Brian.Luxonis\Documents\Luxonis\1098
Size: <i>Tabloid</i>	Number: <i>DXXXX</i>	Revision: <i>ROM0E0</i>			
Date: <i>23/04/2021</i>	Time: <i>15:33:39</i>	Sheet <i>1</i> of <i>9</i>			
Drawn by: <i>David Malovrh</i>					

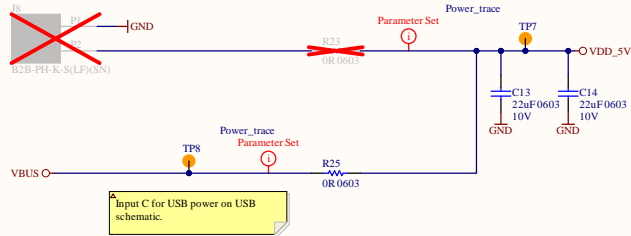


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Date: 23/04/2021	Time: 15:33:39	Sheet 2 of 9		
Drawn by: David Malovich				

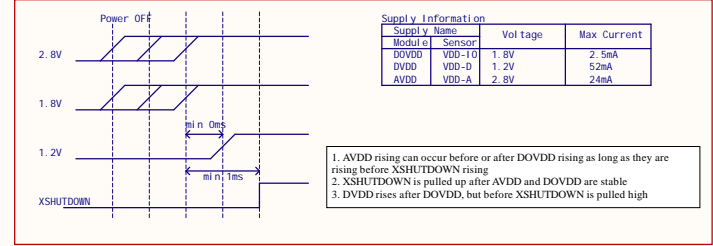


Title DM1098LUX-D-LITE			Laxsonis Holding 1925 Harmony Park Drive Westminster, CO 80234 United States		Cannot open file C:\Users\Brian\laxsonis\...
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Date: 23/04/2021	Time: 15:33:39	Sheet 3 of 9			
Drawn by: David Malovrh					

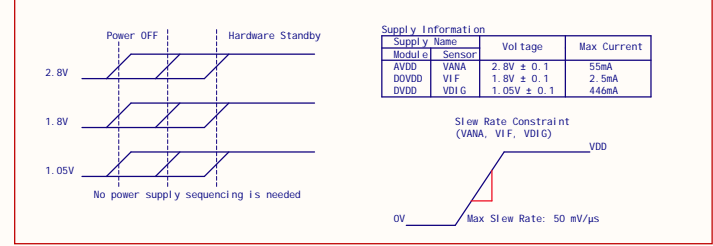
POWER INPUT



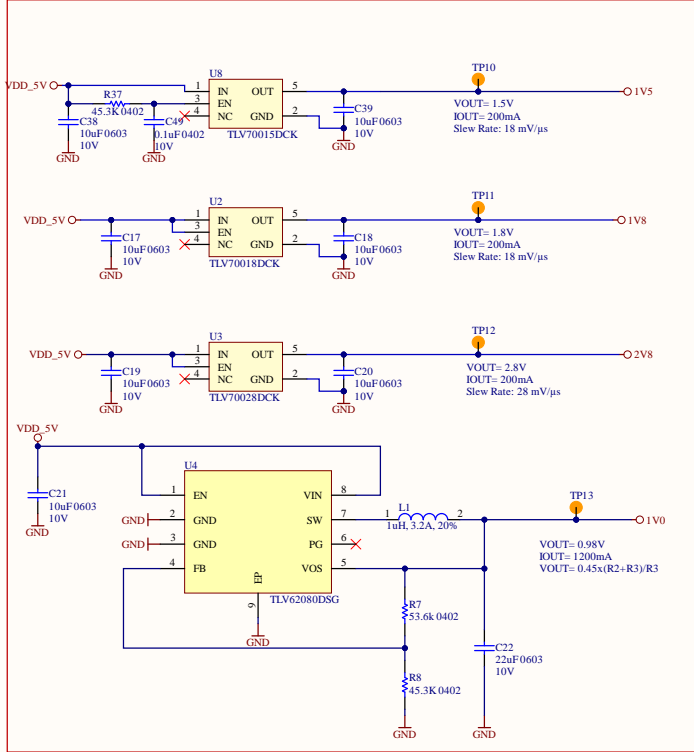
OV9282 POWER REQUIREMENTS



IMX378 POWER REQUIREMENTS



POWER SUPPLIES FOR CAMERA MODULES

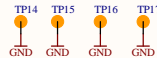
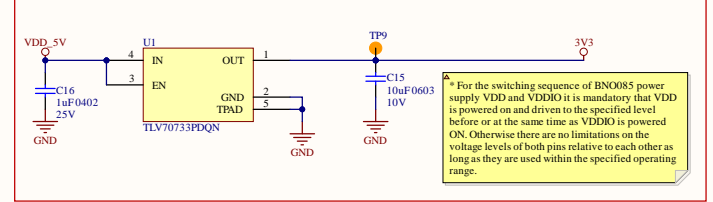


POWER SEQUENCING REQUIREMENTS:

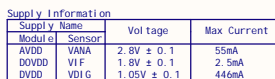
The BW1099 module handles it's own power sequencing on-board.

The camera modules have their own power sequencing requirements. The OV9282 have requirements for sequencing, and the IMX378 has a max slew rate requirement. See above.

3.3V USB SW POWER



Title DM1098LUX-D-LITE			<i>Luxonis Holding</i> <i>1925 Harmony Park Drive</i> <i>Westminster, CO</i> <i>80234</i> <i>United States</i>	Cannot open file C:\Users\BrianLuxonis\Documents\1098LUX-D-LITE
Size: Tabloid	Number: DXXXXX	Revision: ROM0E0		
Date: 23/04/2021	Time: 15:33:39	Sheet 4 of 9		
Drawn by: David Malovrh				



Note: It is still a limitation that the clock source for the cameras must be shared between CAMA/C and CAMB/D.

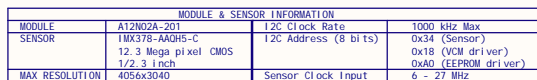
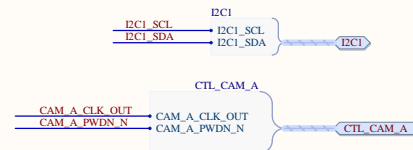
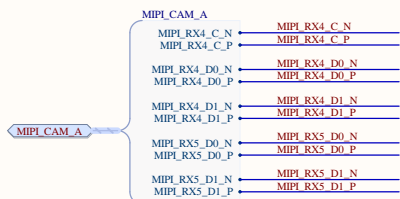


table needs to be updated	
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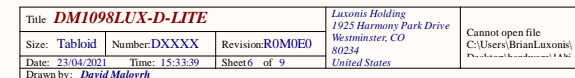


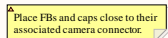
MIPI Lanes:
DPHYv1.2
Max 2.1 Gbps / lane





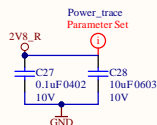
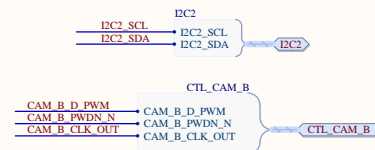
current consumption not updated
test if it works without 1V5





Supply Information

current consumption not updated
test if it works without 1V5



Because the stereo pair of OV9282 modules hard wired to CAM_B (below) no additional reset circuitry is required to account for different conditions. This means that "CAM1" (Left) is reset via CAM_PWDN, and "CAM2" (Right), is reset via CAM_PWM. This also means that the signal CAM_AUX_I01 is no longer required here, as that was only possible if the stereo pair were connected to CAM_C or CAM_D

0V9282 sensor I2C address may be changed via I2C protocol. Therefore, in order to assign different I2C address to the sensors on the same I2C bus, one needs to hold the reset of all sensors except one and assign a unique I2C address to the active sensor. This routine should be applied for all sensors in the initialization routine.

CAM NO	CAMERA CONNECTOR			
	CAM_A	CAM_B	CAM_C	CAM_D
CAM 1	CAM_PWDN	CAM_PWDN	CAM_PWDN	CAM_PWDN
CAM 2	CAM_PWM	CAM_PWM	CAM_AUX_101	CAM_AUX_101

inrush current limiter

Title DM1098LUX-D-LITE			<i>Luxonis Holding 1925 Harmony Park Drive Westminster, CO 80234 United States</i>	Cannot open file C:\Users\Brian\Luxonis\Documents\dwg\1098LUX-D-LITE.dwg
Size: Tabloid	Number: DXXXXX	Revision: R0M0E0		
Date: 23/04/2021	Time: 15:33:39	Sheet 8 of 9		
Drawn by: David Malovich				

