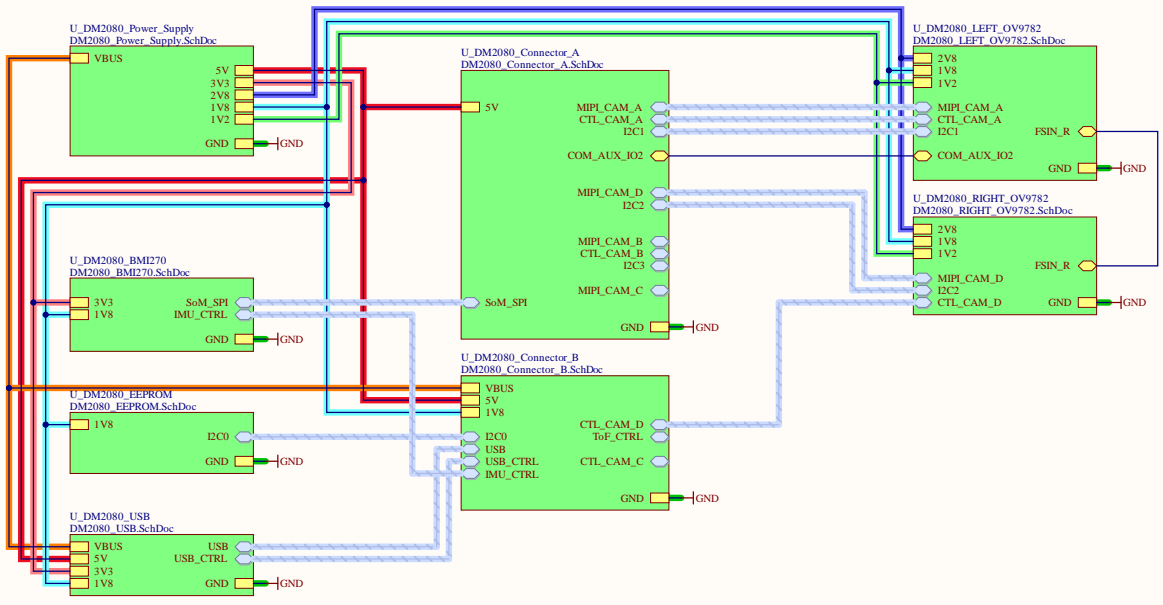


**Project:** *DM2080*  
**Current Revision:** *R1M1E1*

**DM2080** *Revision History:*

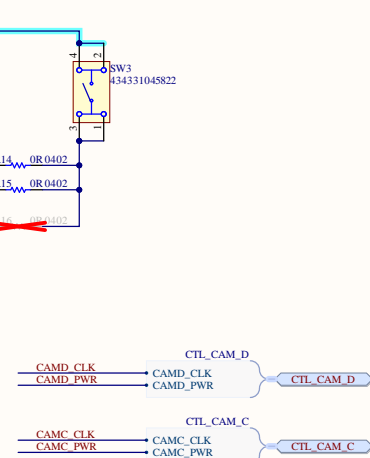
Date	Revision	Reason for Change	Changes Implemented
5th July 2022	Initial release		
21th October 2022	R1M1E1	Light bleeding of the LED light into the USB-C connector. Not enough feedback from buttons.	- moved LED to the other side of the PCB - moved LED pins to CONNECTOR A to the PWM capable pins - added 100k resistors to gates of mosfets - resized the PCB board - added new buttons



U\_Project\_Information  
Project\_Information.SchDoc

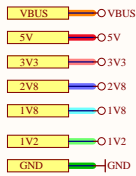
FID1 FID2 FID3 FID4 FID5 FID6

Title <i>DM2080</i>			Luxonis Holding 1925 Harmony Park Drive Westminster, CO 80234		Cannot open file C:\Users\Brian.Luxonis\Documents\DM2080
Size: <i>Tabloid</i>	Number: <i>D0001093</i>	Revision: <i>R1M1E1</i>			
Date: <i>24.11.2022</i>	Time: <i>16:27:14</i>	Sheet <i>2</i> of <i>9</i>	<i>United States</i>		
Drawn by: <i>David Malovrh</i>					

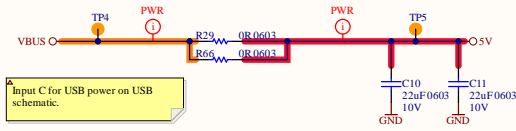


Title <b><i>DM2080</i></b>			<i>Luxonis Holding</i>	Cannot open file C:\Users\Brian.Luxonis\Documents\unclassified\2080
Size: <b>Tabloid</b>	Number: <b>D0001093</b>	Revision: <b>R1M1E1</b>	<i>1925 Harmony Park Drive</i>	
			<i>Westminster, CO</i>	
			<i>80234</i>	
Date: <b>24.11.2022</b>	Time: <b>16:27:15</b>	Sheet <b>3</b> of <b>12</b>	<i>United States</i>	
Drawn by: <i>David Malachuk</i>				

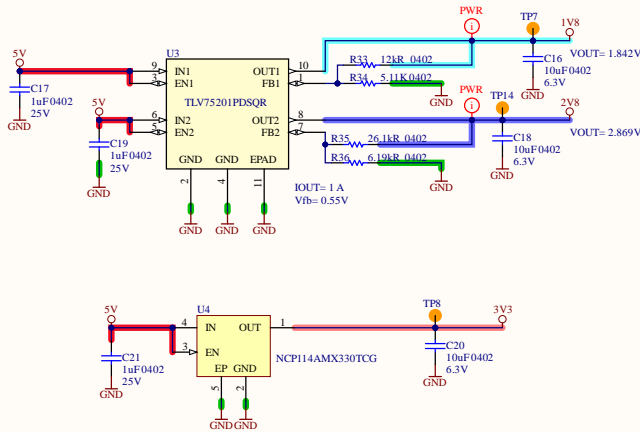




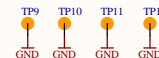
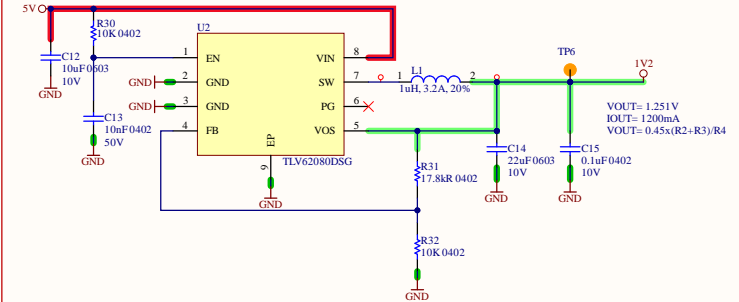
## POWER INPUT



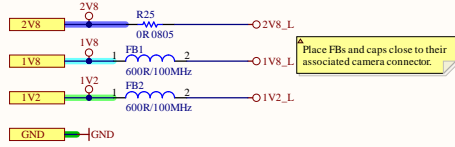
## LDO POWER SUPPLIES



## DC-DC POWER SUPPLIES



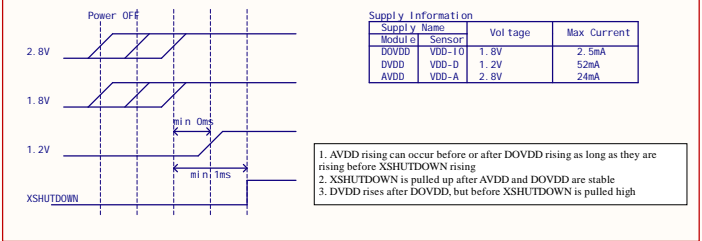
Title <i>DM2080</i>			<i>Luxonis Holding</i> <i>1925 Harmony Park Drive</i> <i>Westminster, CO</i> <i>80234</i> <i>United States</i>		Cannot open file C:\Users\Brian.Luxonis\Documents\DM2080
Size: <i>Tabloid</i>	Number: <i>D0001093</i>	Revision:			
Date: <i>24. 11. 2022</i>	Time: <i>16:27:15</i>	Sheet <i>4</i> of <i>9</i>			
Drawn by: <i>David Malorny</i>					



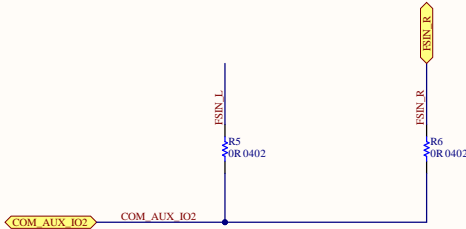
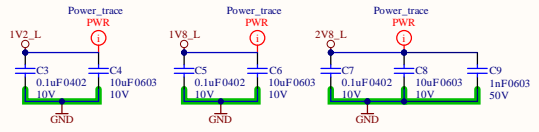
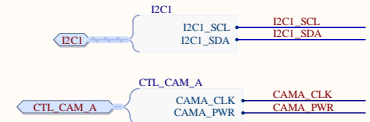
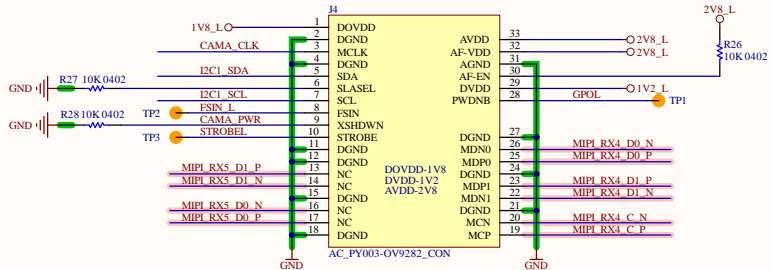
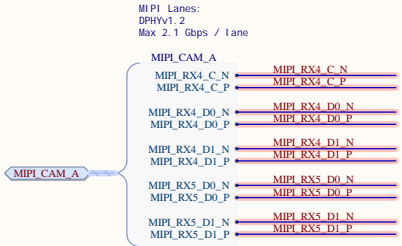
MODULE & SENSOR INFORMATION			
MODULE	TG161B-201 OR AN01V32-0JG	I2C Clock Rate	TBD kHz Max
SENSOR	OV9782 RGB 1 Mega pixel CMOS 1/4 inch	I2C Address (8 bits)	0x7BD(W) 0x7BD(R)
MAX RESOLUTION	1280X800	Sensor Clock Input	6 - 27 MHz (24 MHz typ.)

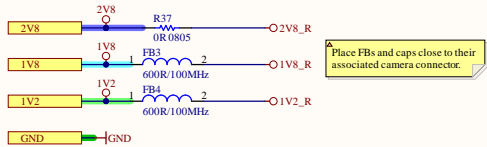
Supply Information			
Supply Name	Module	Sensor	Vol tage
DOVDD	VDD-I/O	1.8V	2.5mA
DVDD	VDD-D	1.2V	52mA
AVDD	VDD-A	2.8V	24mA

### OV9282 POWER REQUIREMENTS



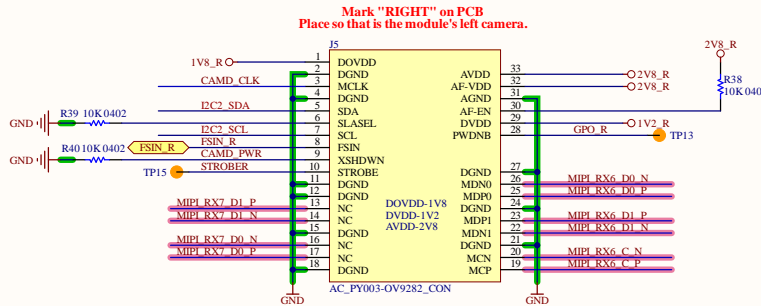
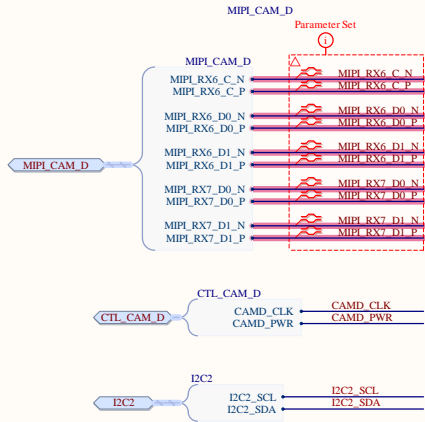
Mark "LEFT" on PCB  
Place so that is the module's left camera.

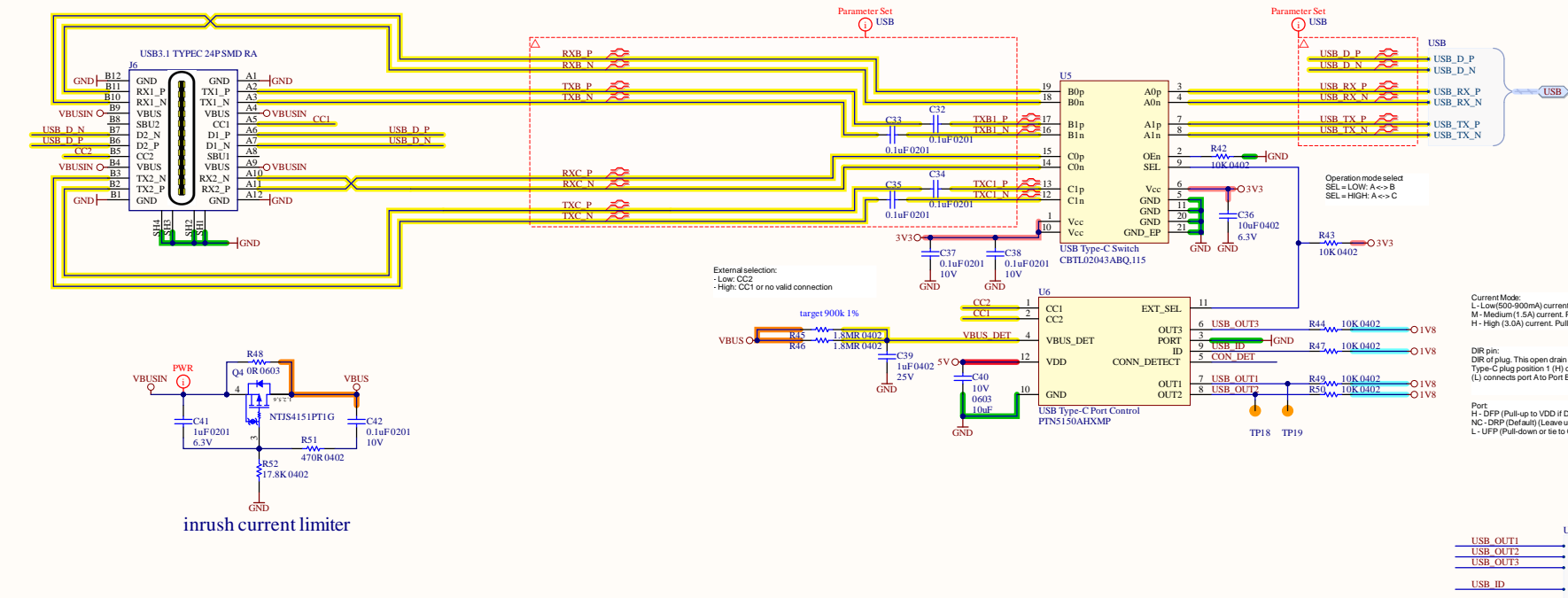




MODULE & SENSOR INFORMATION			
MODULE	TG161B-201 OR AN01V32-0JG	I2C Clock Rate	TBD KHz Max
SENSOR	OV9782	I2C Address (8 bits)	0x1BD(0) 0x1BD(1)
	RGB 1 Mega pixel CMOS		
	1/4 inch		
MAX RESOLUTION	1280X800	Sensor Clock Input	6 - 27 MHz (24 MHz typ.)

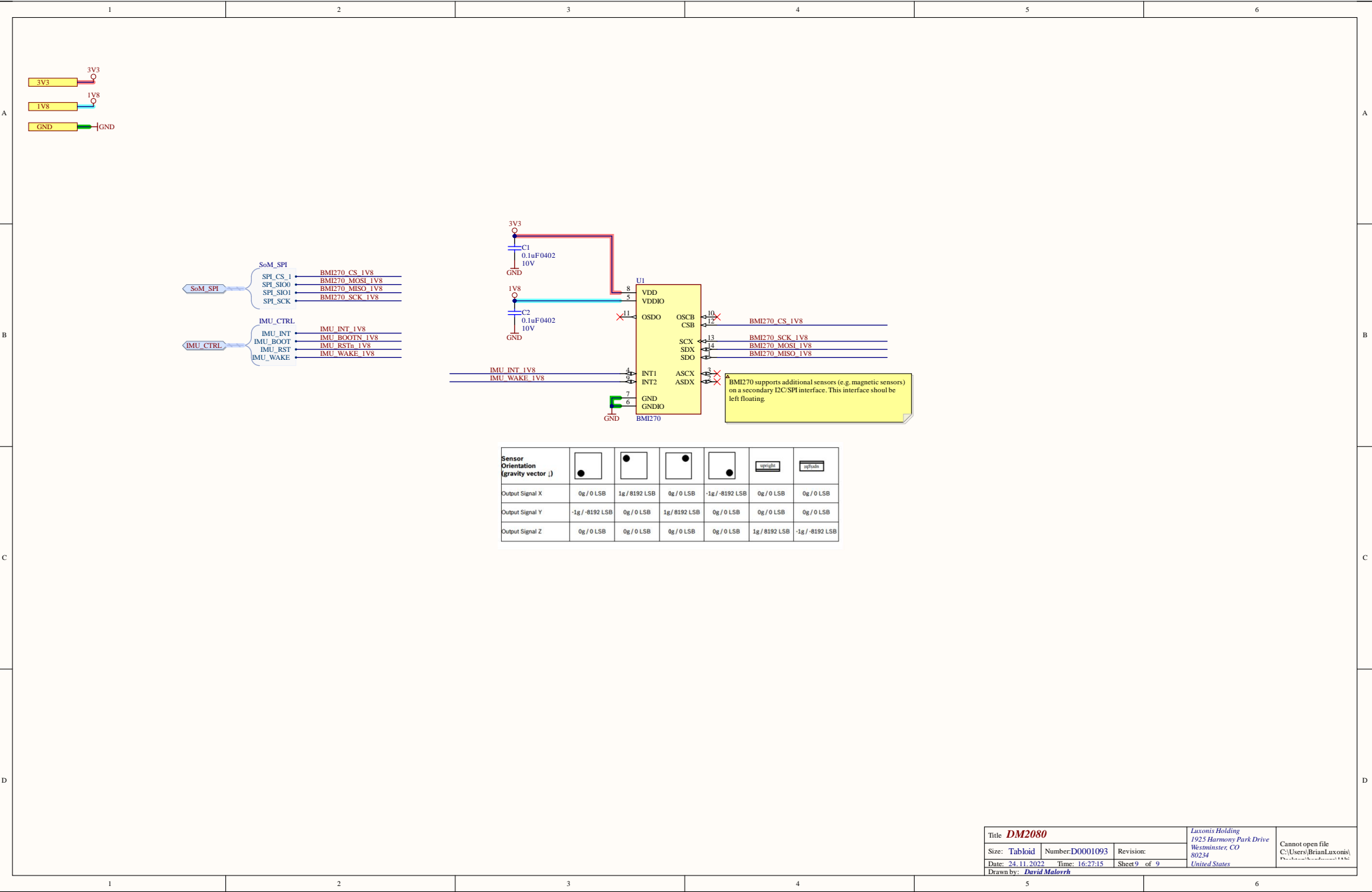
Supply Information			
Module	Sensor	Voltage	Max Current
DOVDD	VDD-I/O	1.8V	2.5mA
DVDD	VDD-D	1.2V	52mA
AVDD	VDD-A	2.8V	24mA

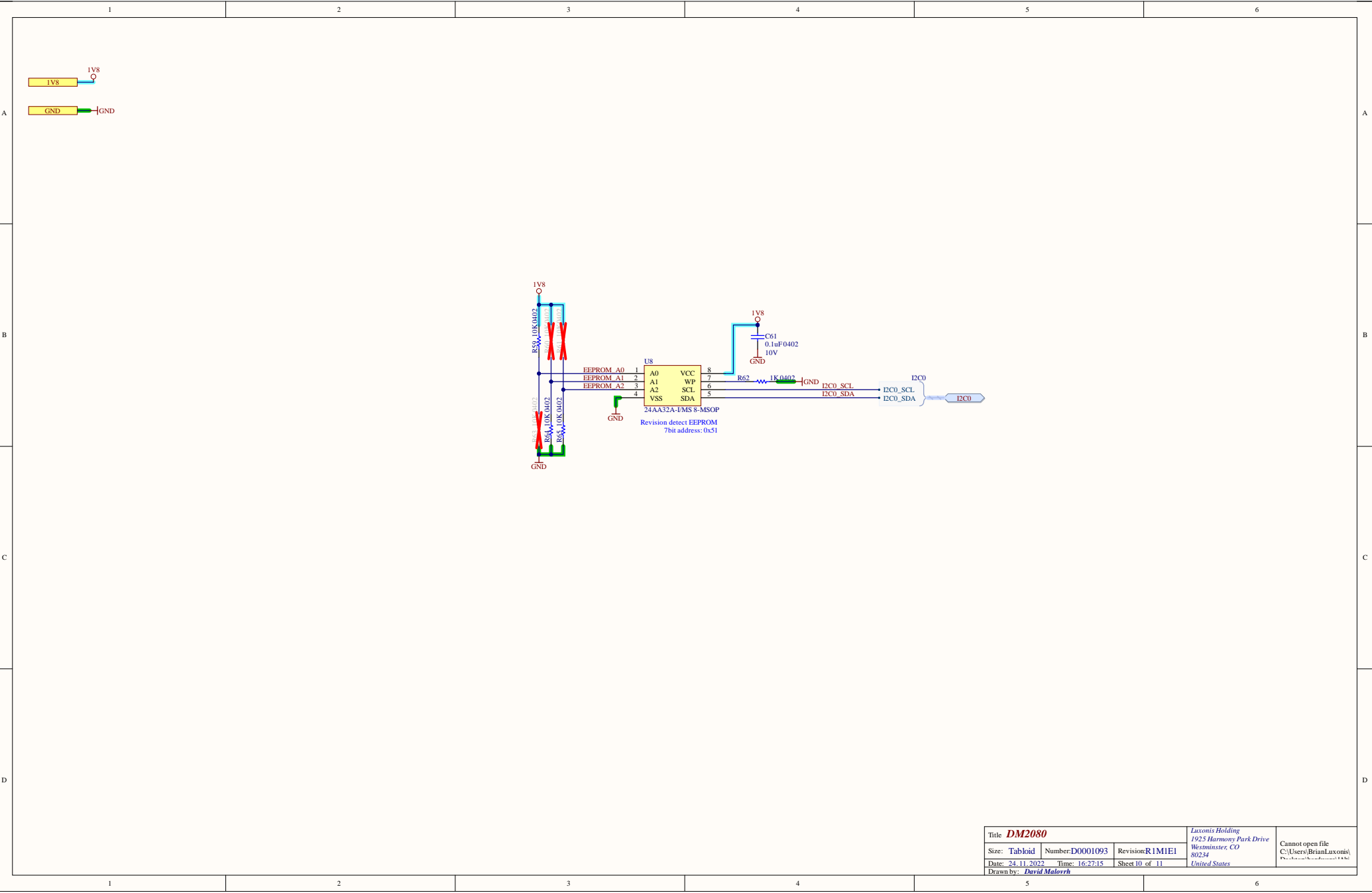




Title <b><i>DM2080</i></b>			Luxonis Holding 1925 Harmony Park Drive Westminster, CO 80234 <i>United States</i>	Cannot open file C:\Users\Brian\Luxonis\Documents\DM2080
Size: <b>Tabloid</b>	Number: <b>D0001093</b>	Revision: <b>R1M1E1</b>		
Date: <b>24.11.2022</b>	Time: <b>16:27:15</b>	Sheet <b>9</b> of <b>9</b>		
Drawn by: <b>David Malovrh</b>				







Title <b>DM2080</b>			Luxonis Holding 1925 Harmony Park Drive Westminster, CO 80234	Cannot open file C:\Users\Brian.Luxonis\Documents\DM2080
Size: <b>Tabletoid</b>	Number: <b>D0001093</b>	Revision: <b>R1M1E1</b>	United States	
Date: 24.11.2022	Time: 16:27:15	Sheet 10 of 11		
Drawn by: <b>David Malvern</b>				