

Project: *DM0249*
Current Revision: *R0M0E0*

DM0249 *Revision History:*

Date	Revision	Reason for Change	Changes Implemented
12/4/2019	R0M0E0 -> R1M1E1	1) Slot for camera did not get correctly generated in gerbers 2) Library and components not common w/ LuxonisMaster 3) BW1098FFC production will standardize on bottom-side contact connector, so for "face down" BG0249 orientation, we need a same-side contact flex.	1) Updated camera footprint, removed duplicate board cutout, fixed physical board shape in Altium, and removed unnecessary layers from project. 2) Updated all components to the new LuxonisMaster library format in order to standardize layer usage, supply chain, and data. Some caps and resistors changed footprints and MFRs to align with LuxonisMaster, but no component values were changed. Only exception is a change to the SwReg inductor to DFE252012P-1R0M-P2, which has same inductance, higher current rating, and is being used on other Luxonis boards in this application. 3) Changed flex from opposite-side Wurth 687726152002 to same-side Molex 0151660281. Molex FPC is about \$0.75 cheaper, too.
12/28/2020	R1M1E1 -> R0M0E0	1) ESD protection 2) FPC connector stronger mechanics 3) Outdated stackup	1) Added protection diodes to MIPI lines 2) Changed FPC with Molex 505278 series 3) Standardized 4L stackup

Title <i>DM0249</i>			<i>Luxonis Holding</i> <i>1925 Harmony Park Drive</i>	Cannot open file C:\Users\Brian.Luxonis\ Documents\.....
Size: <i>Tabloid</i>	Number: <i>D000103</i>	Revision: <i>R0M0E0</i>	<i>Westminster, CO</i> <i>80234</i>	
Date: <i>4.01.2021</i>	Time: <i>15:23:24</i>	Sheet 1 of 3	<i>United States</i>	
Drawn by: <i>David Maloruh</i>				



Supply Name		Voltage	Max Current
Module	Sensor		
AVDD	VANA	2.8V \pm 0.1	55mA
DOVDD	VI F	1.8V \pm 0.1	2.5mA
DVDD	VDIG	1.05V \pm 0.1	446mA

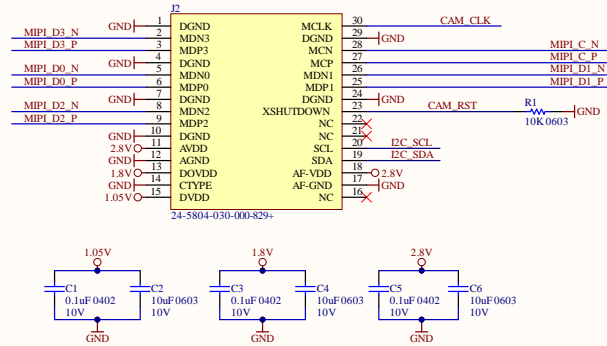


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Size: Tabloid	Number: D000103	Revision: R0M0E0	Westminster, CO	
Date: 4.01.2021	Time: 15:23:24	Sheet 2 of 3	80234	
Drawn by: David Malarch			United States	

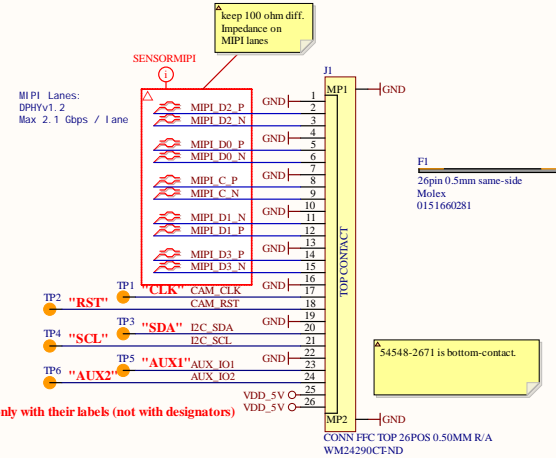
DM0249

MODULE CONNECTOR

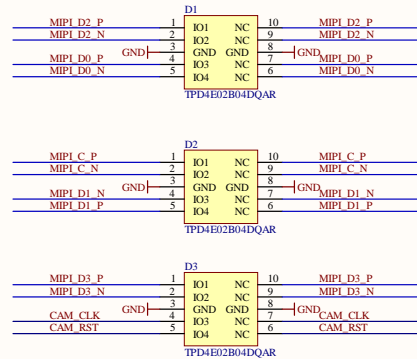
MODULE & SENSOR INFORMATION			
MODULE	A12N02A-201	I2C Clock Rate	1000 kHz Max
SENSOR	IMX376-AGHS-C	I2C Address (8 bits)	0x34 (Sensor) 0x19 (VCM driver) 0xA0 (EEPROM driver)
	12.3 Mega pixel CMOS		
MAX RESOLUTION	4056x3040	Sensor Clock Input	6 - 27 MHz



FFC CAMERA CONNECTOR



ESD PROTECTION



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