

Project: *DM0249*
Current Revision: *R1M1E1*

DM0249 *Revision History:*

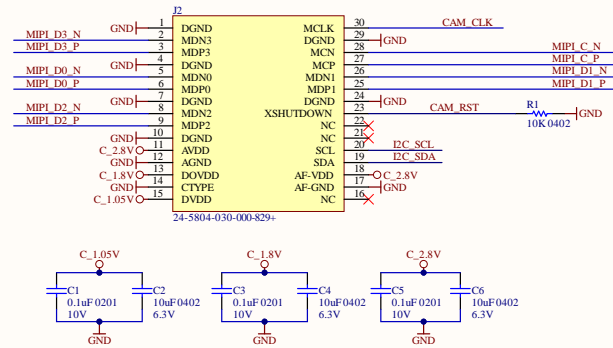
Date	Revision	Reason for Change	Changes Implemented
12/4/2019	R0M0E0 -> R1M1E1	1) Slot for camera did not get correctly generated in gerbers 2) Library and components not common w/ LuxonisMaster 3) BW1098FFC production will standardize on bottom-side contact connector, so for "face down" BG0249 orientation, 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 FFC is about \$0.75 cheaper, too.
12/28/2020	R1M1E1 -> R0M0E0	1) ESD protection 2) FFC connector stronger mechanics 3) Outdated stackup	1) Added protection diodes to MIPI lines 2) Changed FFC with Molex 505278 series 3) Standardized 4L stackup
02/12/2020	R0M0E0 -> R1M1E1	1) Make FFC connectors type and pinout ArduCam standard so that camera modules will be compatible with DM1090FFC 2) Some components uses bigger size footprint than needed	1) Changed FFC connectors to ArduCam standard pinout, updated all connections to the connectors. CBA can be connected with same side 26pin FFC to DM1090FFC 2) Updated all componets using LuxonisMaster libraries 3) Made downsizing of footprints for easier layout

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Size: <i>Tabloid</i>	Number: <i>D000103</i>	Revision: <i>R1M1E1</i>			
Date: <i>13/02/2021</i>	Time: <i>17:31:18</i>	Sheet <i>1</i> of <i>3</i>			
Drawn by: <i>David Malowh</i>					

DM0249

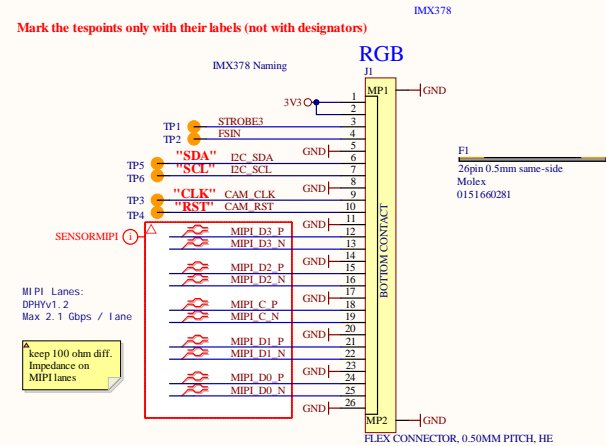
MODULE CONNECTOR

MODULE & SENSOR INFORMATION			
MODULE	A12N02A-201	I2C Clock Rate	1000 kHz Max
SENSOR	IMX378-AA0HS-C	I2C Address (8 bits)	0x34 (Sensor)
	12.3 Mega pixel CMOS		0x18 (VCM driver)
	1/2.3 inch		0xA0 (EEPROM driver)
MAX RESOLUTION	4056x3040	Sensor Clock Input	6 - 27 MHz

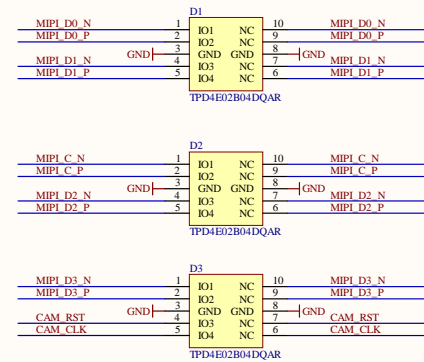


FFC CAMERA CONNECTOR

Mark the tespoints only with their labels (not with designators)



ESD PROTECTION



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Size: Tabloid	Number: D000103	Revision: R1M1E1		
Date: 13/02/2024	Time: 17:31:19	Sheet 3 of 3		
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