

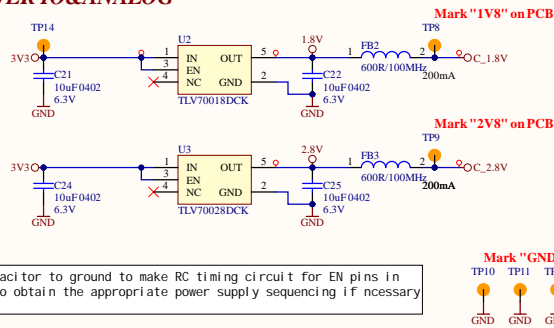
Project: DM0260
Current Revision: R2M1E1

DM0260 Revision History:

Date	Revision	Reason for Change	Changes Implemented
12/30/2020	BG0250TG-> R0M0E0	1) ESD protection 2) FPC connector stronger mechanics 3) Outdated stackup	1) Added protection diodes to MIP lines 2) Changed FPC with Molex 505278 series 3) Standardized 4L stackup
02/12/2020	R0M0E0 -> R1M1E1	1) Make FPC connectors type and pinout ArduCam standard so that camera modules will be compatible with DM1090FPC 2) Library and components not common w/ LuxonisMaster and some has bigger size footprint than needed	1) Changed FPC connectors to ArduCam standard pinout, updated all connections to the connectors. CBA can be connected with same side 26pin FPC to DM1090FPC 2) Updated all components using LuxonisMaster libraries 3) Removed unnecessary components from design (10k pull-ups on LDO enable connected directly) made downsizing of footprints for easier layout
02/12/2020	DM0250_R1M1E1 -> DM0260_R0M0E0	1) Add support for 33-pin standard FPC connector from Arducam 2) Add support for multiple cameras by option to change the core voltage	1) Used 33-pin standard FPC connector for CCM 2) With populating either R4 or R5 you can select 1V05 or 1V2 core voltage respectively.
02/12/2020	DM0260_R0M0E0 -> DM0260_R1M0E0	1) Correct the error because of unused pads 2) Add GND vias reducing the current loops	1) Corrected added pads on top/bottom layer 2) Added GND vias
11/04/2020	DM0260_R1M0E0 -> DM0260_R2M1E1	1) Rotate text for 180 deg for better readability 2) Add holes for M12 camera holder (PY111-577) 3) Change the logo from old one to new one	1) Rotated text for 180 deg for better readability 2) Added holes for M12 camera holder (PY111-577) 3) Changed the logo from old one to new one

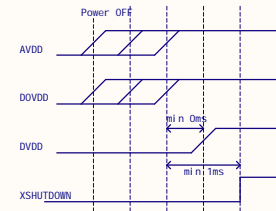
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Size: Tabloid	Number: D0000999	Revision: R2M1E1	United States		
Date: 07/11/2022	Time: 16:48:02	Sheet 1 of 3			
Drawn by: David Malorn					

POWER IO&ANALOG



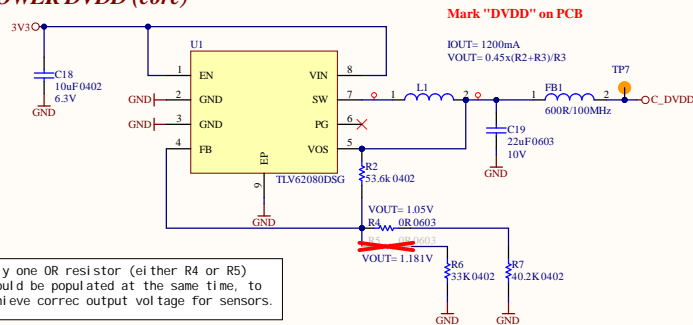
Add capacitor to ground to make RC timing circuit for EN pins in order to obtain the appropriate power supply sequencing if necessary

Power Supply Sequence & Requirements



1. AVDD rising can occur before or after DOVDD rising as long as they are rising before XSHUTDOWN rising
2. XSHUTDOWN is pulled up after AVDD and DOVDD are stable
3. DVDD rises after DOVDD, but before XSHUTDOWN is pulled high

POWER DVDD (core)

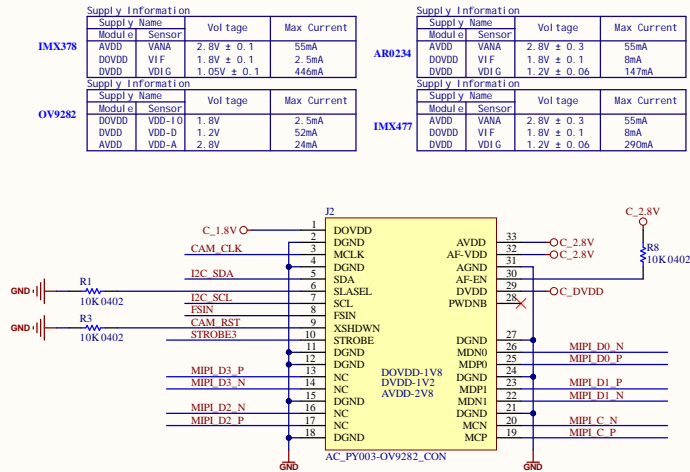


Only one OR resistor (either R4 or R5) should be populated at the same time, to achieve correct output voltage for sensors.

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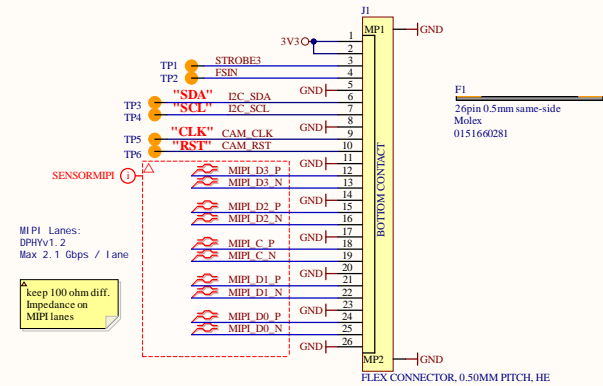
DM0260

MODULE CONNECTOR

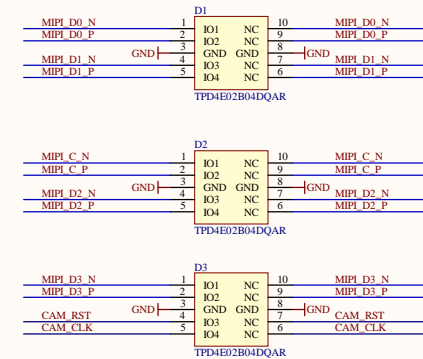


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FFC CAMERA CONNECTOR



ESD PROTECTION



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Date: <i>07/11/2022</i>	Time: <i>16:48:02</i>	Sheet <i>3</i> of <i>3</i>		
Drawn by: <i>David Malovich</i>				