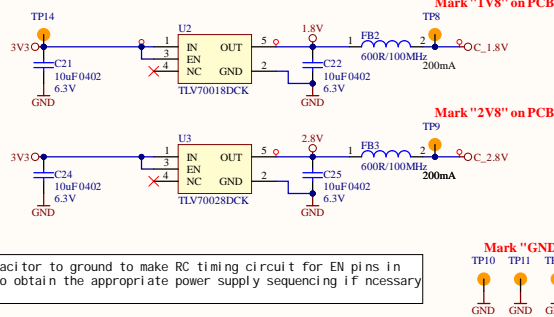


Project: DM0260
Current Revision: R4M2E2

DM0260 Revision History:

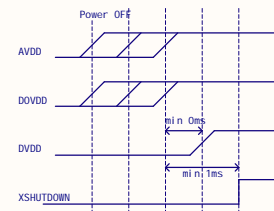
Date	Revision	Reason for Change	Changes Implemented
12/30/2020	BG0250TG-> R0M0E0	1) ESD protection 2) FFC connector stronger mechanics 3) Outdated stackup	1) Added protection diodes to MIPI lines 2) Changed FFC with Molex 505278 series 3) Standardized 4L stackup
02/12/2020	R0M0E0 -> R1M1E1	1) Make FFC connectors type and pinout ArduCam standard so that camera modules will be compatible with DM1090FFC 2) Library and components not common w/ LuxonisMaster and some has bigger size footprint than needed	1)Changed FFC connectors to ArduCam standard pinout, updated all connections to the conectors. CBA can be connected with same side 26pin FFC to DM1090FFC 2) Updated all componets 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 FFC connector from Arducam 2) Add support for multiple cameras by option to change the core voltage	1) Used 33-pin standard FFC 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
06/29/2023	DM0260_R2M1E1 -> DM0260_R3M1E2	Missing EEPROM.	Added EEPROM and connected CAM_RST to change address of EEPROM.
08/07/2023	DM0260_R3M1E2 -> DM0260_R4M1E2	missing pads on TOP and BOTTOM on GND vias, manufacturing problem.	Restoring removed unused pads.
10/11/2023	DM0260_R4M1E2 -> DM0260_R4M2E2	Missing holes for 20mm pitch CCM	Changing 2 mounting holes with pitch of 18 mm to slot to support 18 and 20mm mounting pitch.

POWER IO&ANALOG



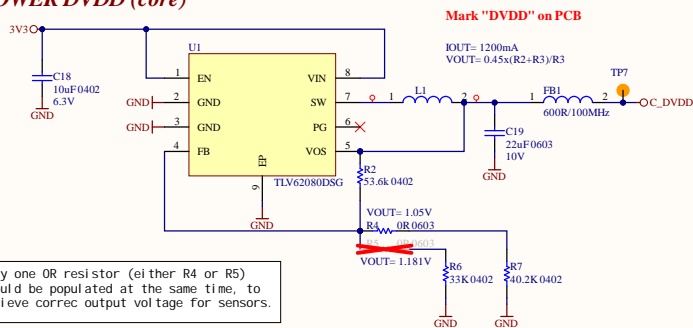
Add capacitor to ground to make RC timing circuit for EN pins in order to obtain the appropriate power supply sequencing if necessary

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.

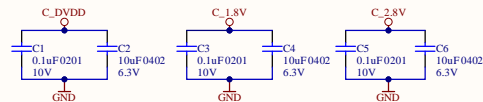
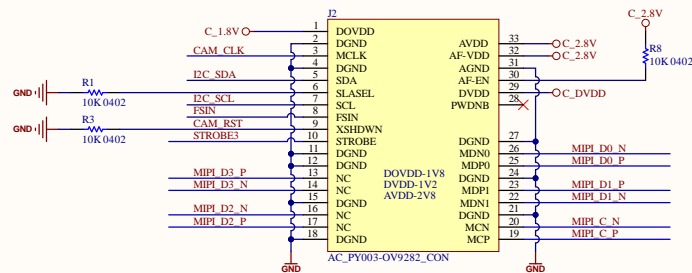
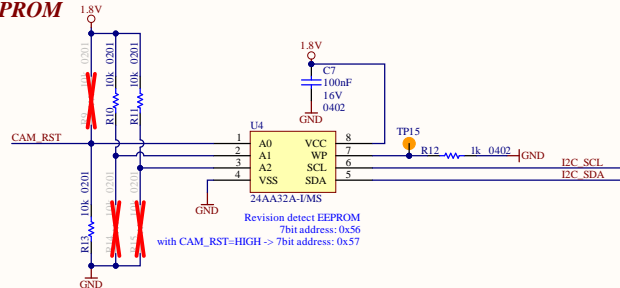
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Size: Tabloid	Number: D0000999	Revision: R4M2E2		
Date: 26.06.2024	Time: 16:09:04	Sheet 2 of 3		
Drawn by: David Malovrh				

DM0260

MODULE CONNECTOR

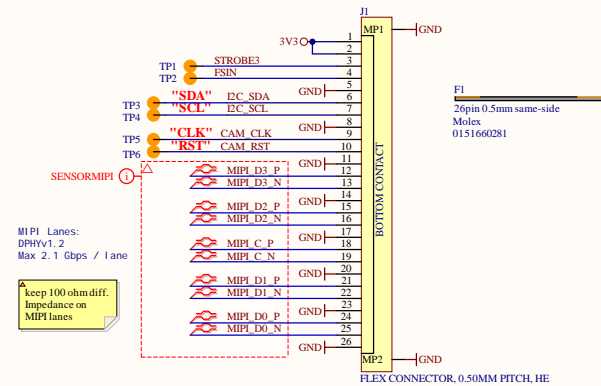
Supply Information				
IMX378	Supply Name		Voltage	Max Current
	Module	Sensor		
	AVDD	VANA	2.8V ± 0.1	55mA
	D0VDD	V1F	1.8V ± 0.1	2.5mA
	DVDD	VDIG	1.05V ± 0.1	446mA
Supply Information				
OV9282	Supply Name		Voltage	Max Current
	Module	Sensor		
	D0VDD	VDD-I/O	1.8V	2.5mA
	DVDD	VDD-D	1.2V	52mA
	AVDD	VDD-A	2.8V	24mA

Supply Information				
AR0234	Supply Name		Voltage	Max Current
	Module	Sensor		
	AVDD	VANA	2.8V ± 0.3	55mA
	DOVDD	VI F	1.8V ± 0.1	8mA
	DVDD	VDIG	1.2V ± 0.06	147mA
Supply Information				
IMX477	Supply Name		Voltage	Max Current
	Module	Sensor		
	AVDD	VANA	2.8V ± 0.3	55mA
	DOVDD	VI F	1.8V ± 0.1	8mA
	DVDD	VDIG	1.2V ± 0.06	290mA

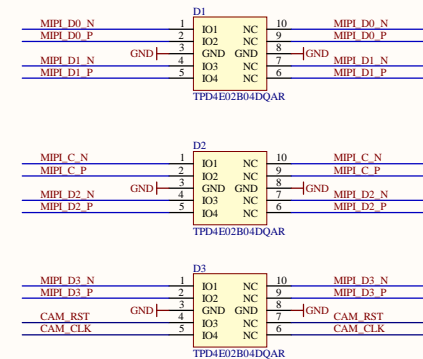
***EEPROM***

Revision: R4M2E2

FFC CAMERA CONNECTOR



ESD PROTECTION



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Size: Tabloid	Number: D0000999	Revision: R4M2E2		
Date: 26.06.2024	Time: 16:09:04	Sheet 3 of 3		
Drawn by: David Malarch				