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Project: DD2090 4CAM FFC

Current Revision: R7M1E7

Assembly variant: Production_BMO085

DD2090 4CAM FFC Revision History:

Date	Revision	Reason for Change	Changes Implemented	
10 June 2021	DM1099FFC R1M0E1-> DD2090 4CAM FFC R0M0E0	I) Changed SoM to BW2099 2) Added MIP(CAMD (4 lane) 3) Added uSD card 4) Added SoFware controll over FSIN signal between the 2 lane and 4 lane cameras (U5) 5) Added ESD protection on USB signals		
	R0M0E0> R1M1E1	Corrected SoM footprint (mounting posts error) BOOT should be connected to BOOT2 and BOOT4 for USB recovery Updated assembly variant to default NOR boot mode	1) Increase the board from 62x38mm to 65x38mm 2) Added EEPROM	
29 Dec 2021	RIM1E1 -> R2M1E2	1) Change the 3,3V power supply to 2A capability 2) Increase silkscreen size and position for the connector markings to be more visible when assembled 3) Change USBC switch 4) Connecte BNOOS WAKE signal to MX 5) Update PRBS connector adding Strobe and 4-Lane FSYNC	1) Change the 3.3V power supply to 3A capability (should be enough for any kind of CCM) 2) Increased silkscreen size and updated position for the connector markings 3) Changed USBC swidte with NXP alternative 4) Connected WAKE signal to MXIO10 5) Updated PSRBS connector adding Strobe and 4-Lane FSYNC	
15 Apr 2022	R2M1E2 -> R3M1E3	Correct issue on the swapped silkscreen (QSPI and AUX) Remove IMU BNO068 from BOM due to shortage and add BMI270	1) Correct issue on the swapped silkscreen (QSPI and AUX) 2) Remove IMU BNO068 from BOM added BMI270	
15 Apr 2022	R3M1E3 -> R4M1E4	1) Add additional 0R resistor which will short BOOT_SEL with BOOT_AUX for KB recovery mode 2) Add GND vias on 3V3 regulator	Added additional OR resistor which will short BOOT_SEL with BOOT_AUX for KB recovery mode Added GND vias on 3V3 regulator	
8 Sep 2022	R4M1E4 -> R5M1E5	1) Add additional FFC connector for active illumination (dot projector, IR LED)	Added additional FFC connector for active illumination (dot projector, IR LED)	
16 Nov 2022	RSM1E5 -> R6M1E6	Barrel jack ideal diode cut off when illumination module was attached Some pins are not supported on KB Junecessary componens on SV power LED We external reset needed for KB	I JReplaced ideal diode with mosfet 2) - FSIN_MODE_SELECT moved to MXIO_38 - WAKE moved to MXIO_39 - AUX_JO_IR,0 moved to MXIO_11 3) Removed mosfet and wired the LED directly 4) Connected GPIO to reset pin	
8 Sep 2022	R6M1E6 -> R7M1E7	1) FSYNC needs to be enabled (connected together by default)	Enabled the swith by default with additional resistor (R44)	

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