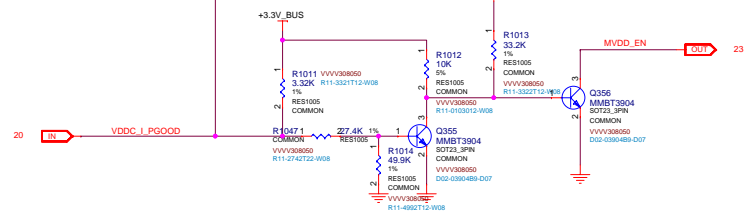
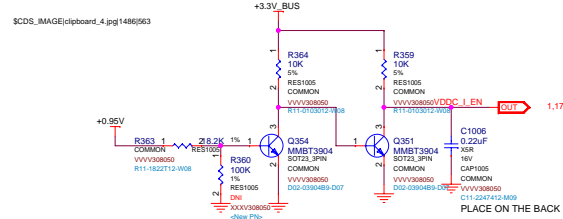
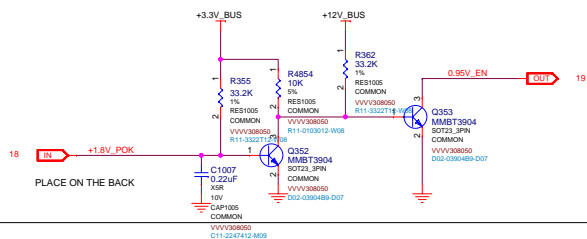
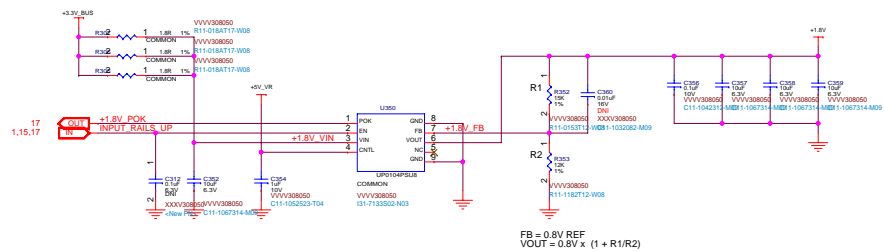


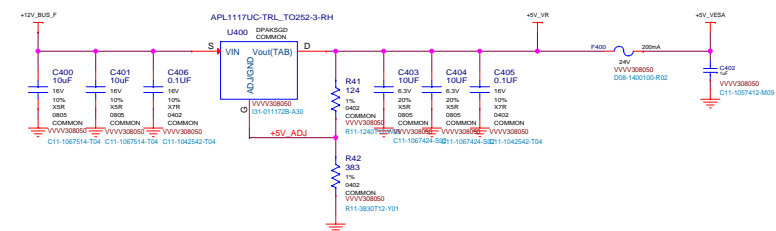
# POWER UP SEQUENCING



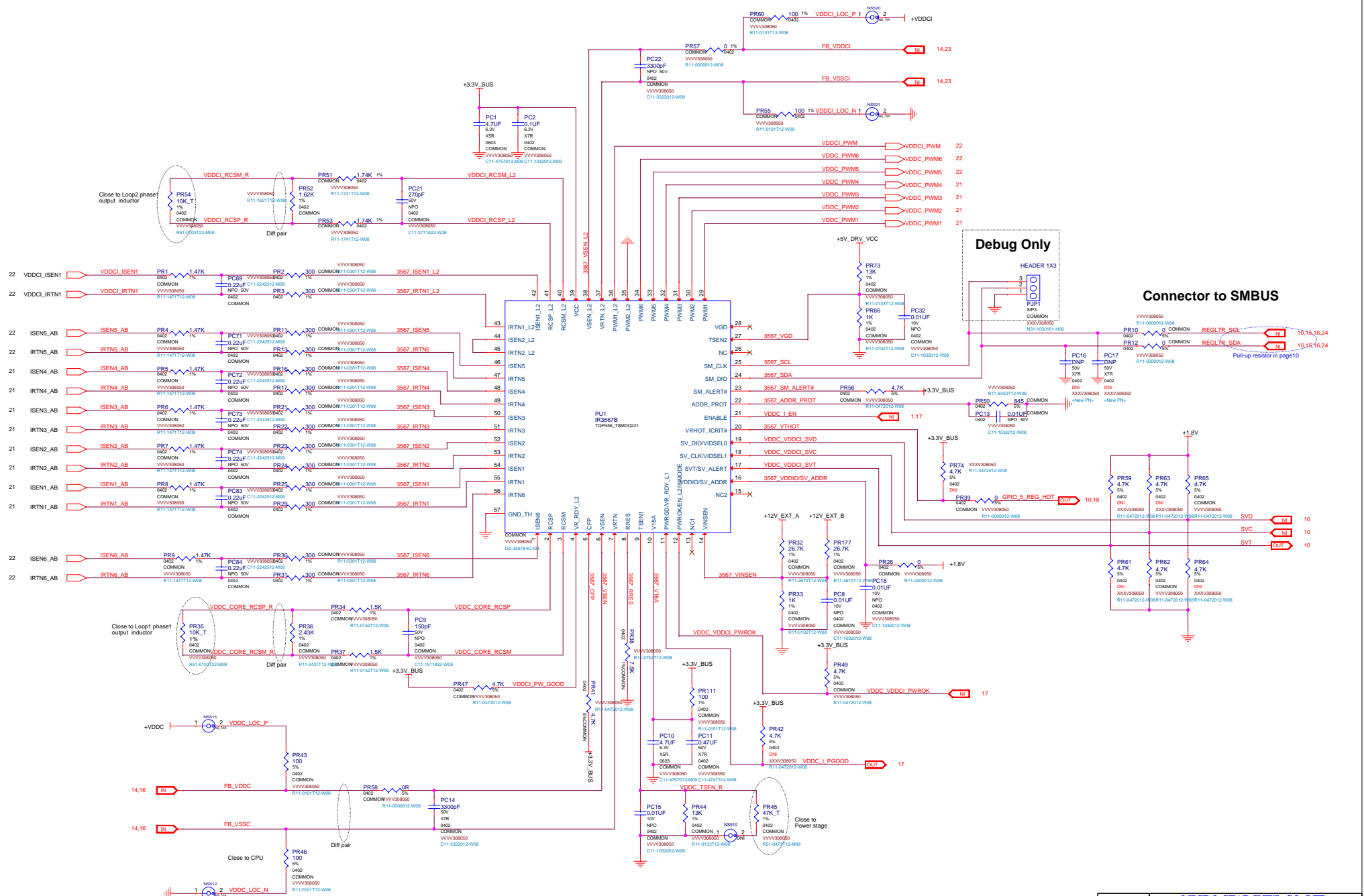
## Regulators for +1.8V



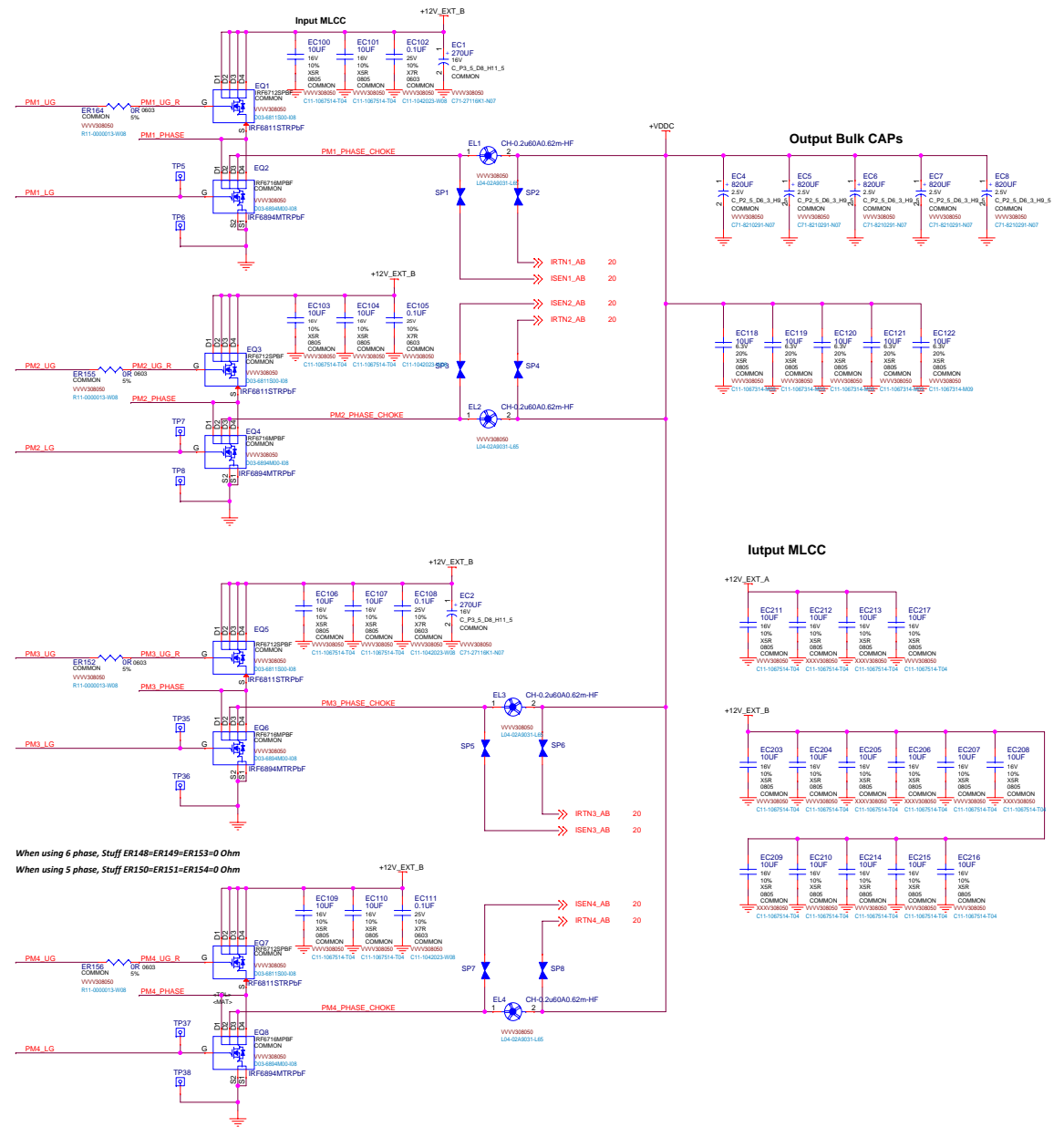
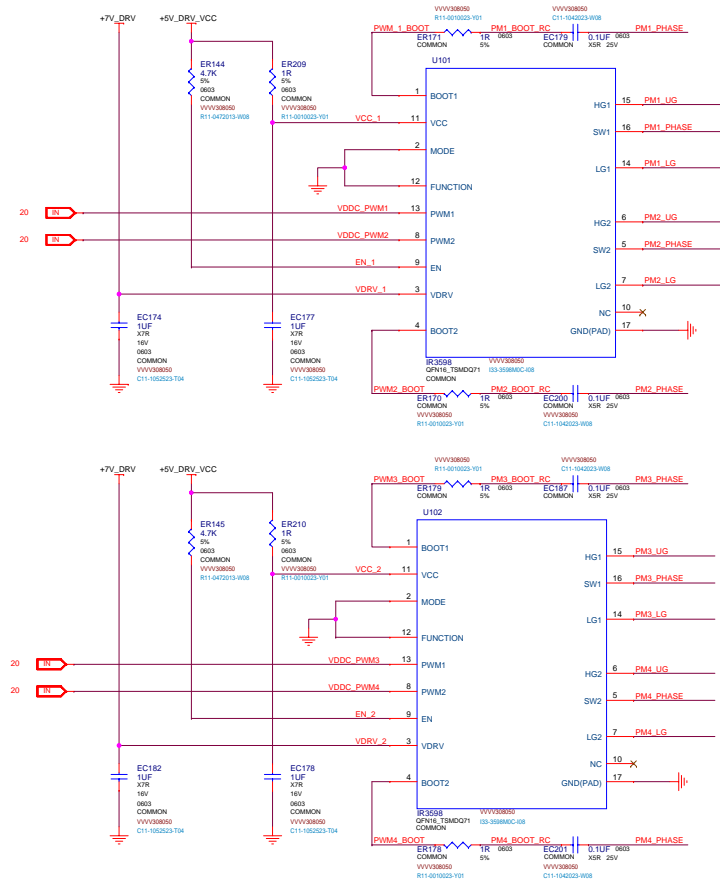
## Regulators for +5V, and +5V\_VESA



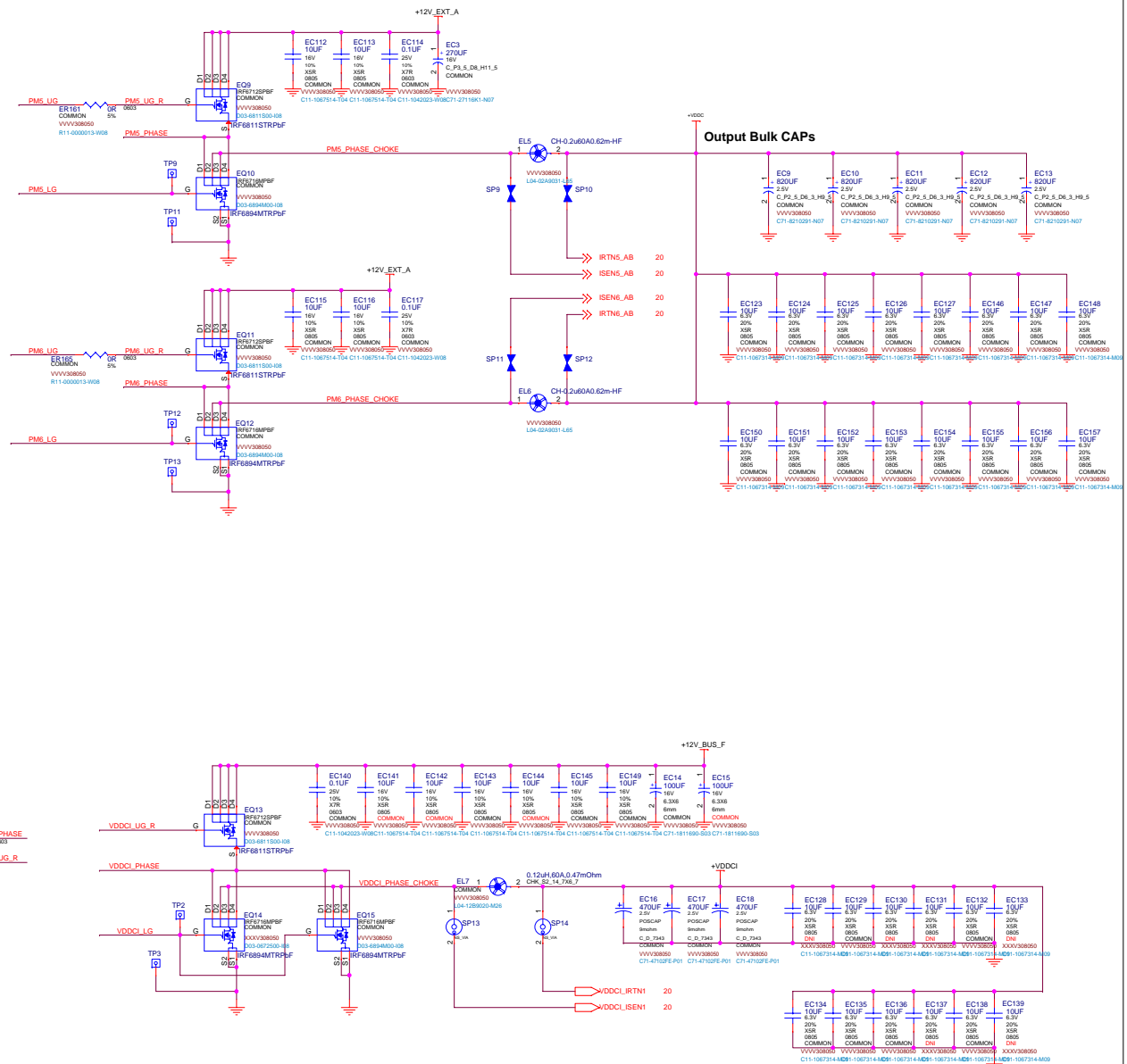
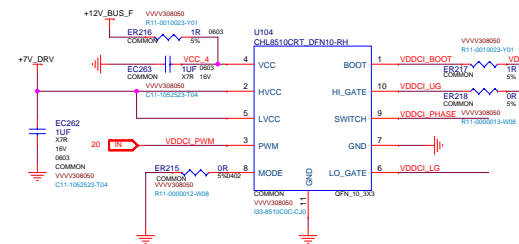
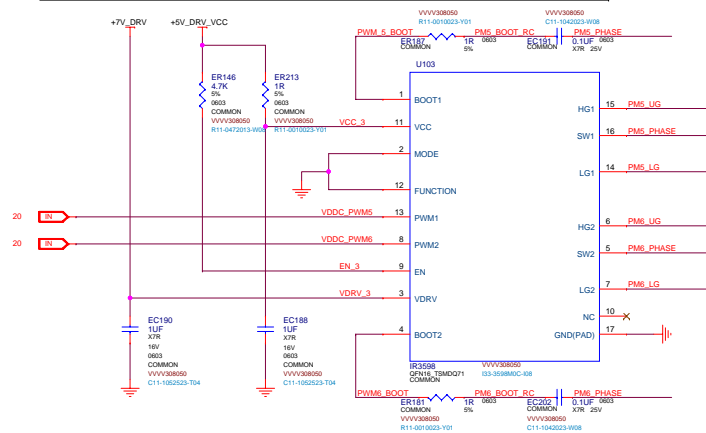






[illegible]

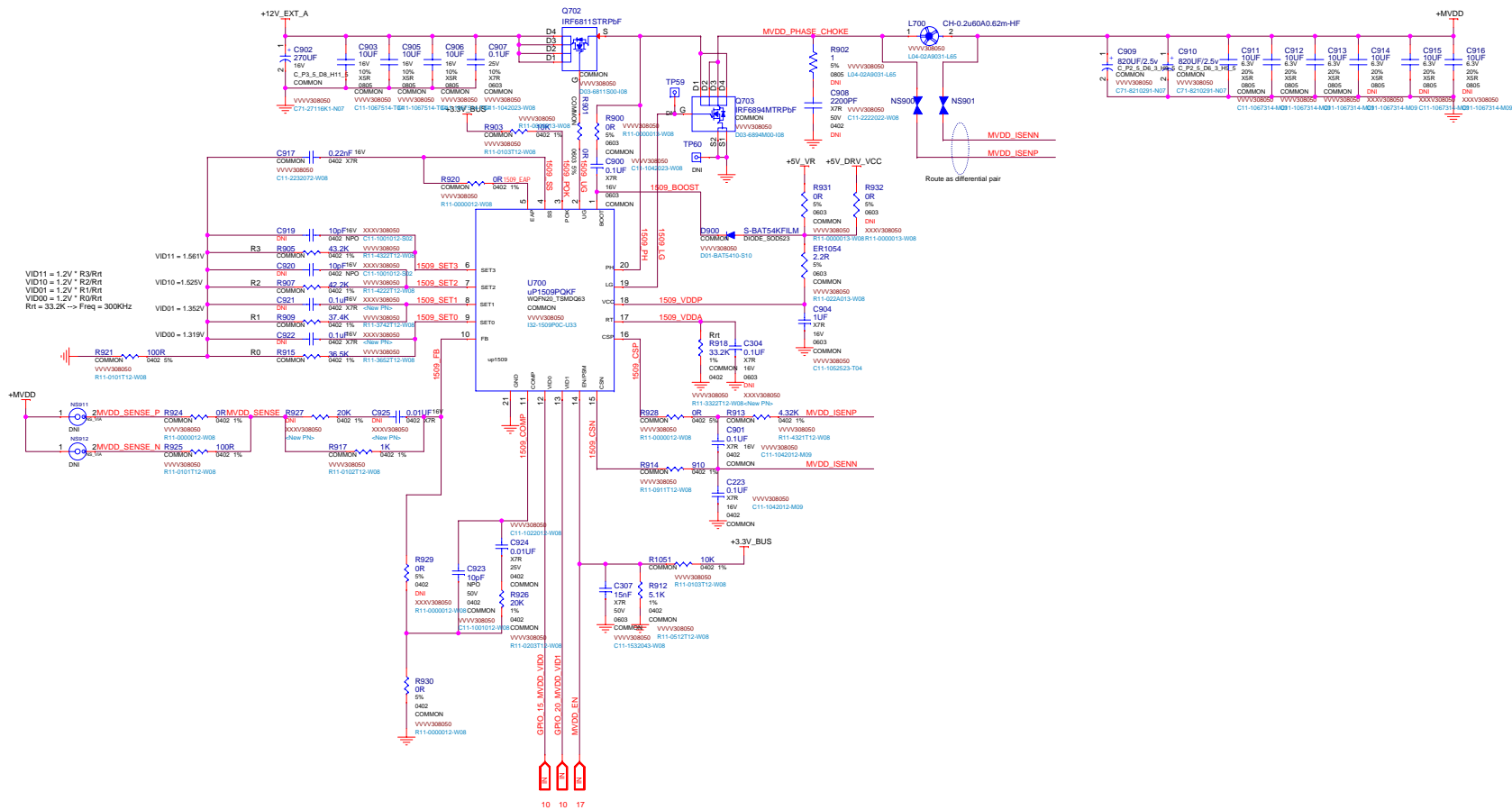
# 7V POWER SUPPLY FOR DRIVER

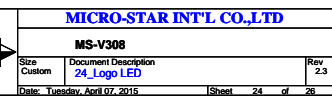
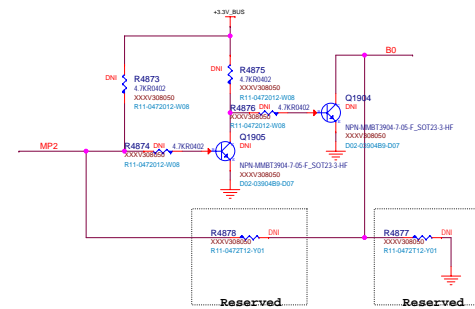
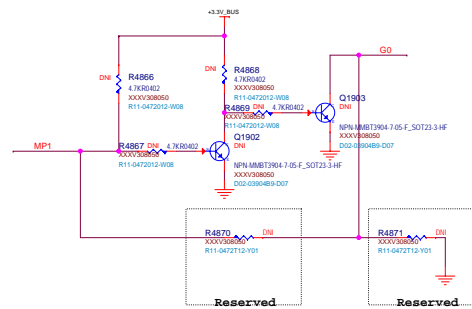
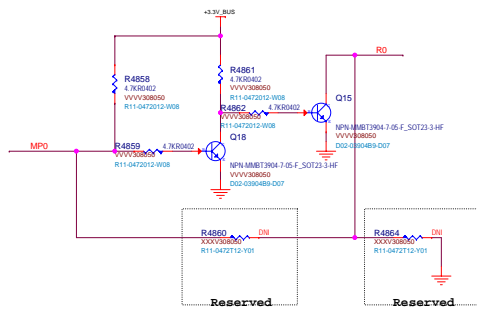
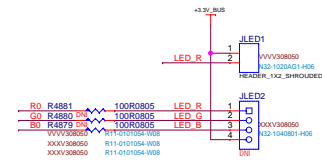


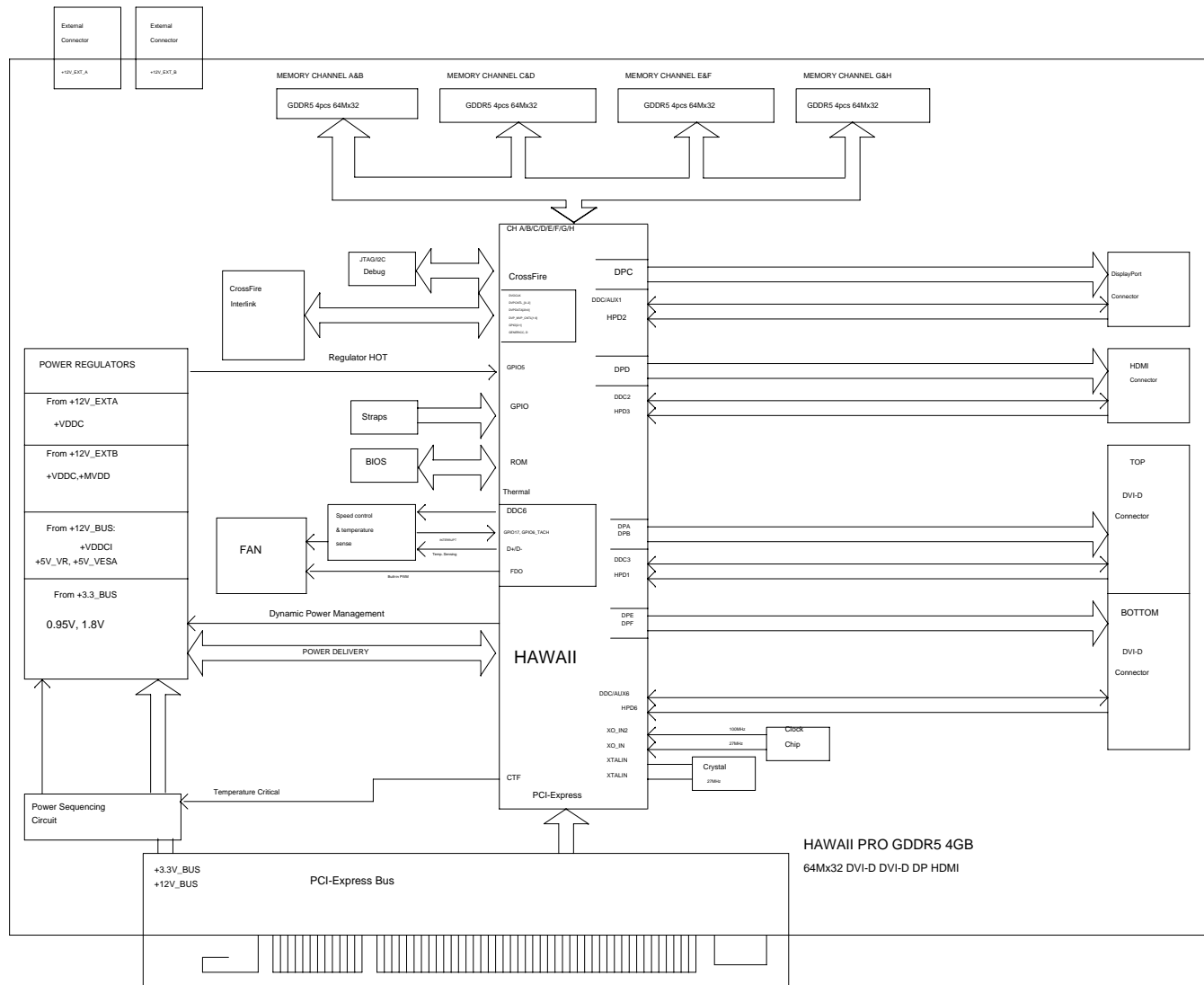
**MICRO-STAR INT'L CO.,LTD**

MS-V308

Size Custom	Document Description <b>22_VDDC Phase 5-6 &amp; VDDCI</b>	Rev 2.3
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- |   |     |               |   |
|---|-----|---------------|---|
| 1 | 00A | Feb01<br>2013 | Initial release for engineering review.   |
| 2 | 00B | Apr12<br>2013 | 1) Added provision to combine Ext_A and Ext_B on MVDD input.<br>2) Added filter on 12V_BUS.<br>3) "Fixed" CTF_DIS connection.<br>4) MVDDPWGOOD pull-up changed to 1.8V.<br>5) Removed diode from 1.8V_POK.<br>6) Improved power sequence for MVDD_EN.   |
| 3 | 00C | Jul24<br>2013 | 1) WAKEB enable changed to VDDC_I_EN.<br>2) Changed polarity of PCC comparator and added the circuitry to provide fast rising and delayed falling edges<br>3) Added filter on MVDD enable input<br>4) Added provision to connect 1.8V_DAC directly to PCC comparator.<br>5) Added extra MLCCS and polymers for whining noise reduction. |
| 4 | 00D | Sep30<br>2013 | 1) Added option for 300W board power.<br>2) Added option of PCC circuitry from C671 board.<br>3) Added VR_HOT option from C673.<br>4) Added extra filtering options for VDDC current measuring.<br>5) Added more caps on DP_VDDR.   |

- |   |         |   |         |  |
|---|---------|---|---------|--|
| 5 | V308-20 | Page01 : 1. MVDD_PWRGD change to INPUT_RAILS_UP<br>2. Remove JTAG | V308-21 | Page17 : 1. L1000/L1001/L1002/J1000/J1001 change footprint<br>2.Remove R1020/R1021/MJ1001  |
|   |         | Page10 : Remove CF Test Point                                     |         | Page19 : Add 0.95_En pull-high resistor  |
|   |         | Page11 : 1. Change DVI footprint and library<br>2. Add ESD        |         | Page21 : Add Ext_12V input MLCC  |
|   |         | Page12 : 1. Change DP/HDMI footprint and library<br>2. Add ESD    | V308-22 | No change  |
|   |         | Page13 : 1. Change DVI footprint and library<br>2. Add ESD        | V308-23 | Page 10 : Remove BIOS (U3)<br>Page 16 : Add R559/R560<br>Page 20 : Remove PR219/PR220/PR67/PR68<br>Page 21 : Change EL1/EL2/EL3/EL4 footprint<br>Page 22 : 1. Change EL5/EL6 footprint<br>2. Add EC12 - EC150-EC157<br>Page 23 : Change L700 footprint<br>Page 24 : Add Logo LED circuit |
|   |         | Page15 : 0.95V_EN change to INPUT_RAILS_UP                        |         |  |
|   |         | Page16 : Copy from C671 PCC circuit                               |         |  |
|   |         | Page17 : Copy from C671 sequence circuit                          |         |  |
|   |         | Page18 : 1. Change 1.8V LDO<br>2. 5V change to 1117               |         |  |
|   |         | Page19 : 0.95V Change to I9C-1741P0C-U33                          |         |  |
|   |         | Page20 : VDDC/VDDCI controller change to IR3567B                  |         |  |
|   |         | Page23 : MVDD PWM change to I32-1509P0C-U33                       |         |  |
|   |         | Page24 : Remove Debug circuit                                     |         |  |