
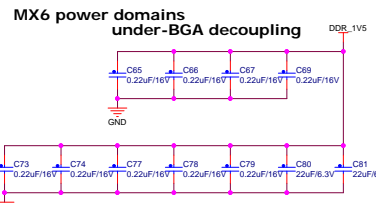
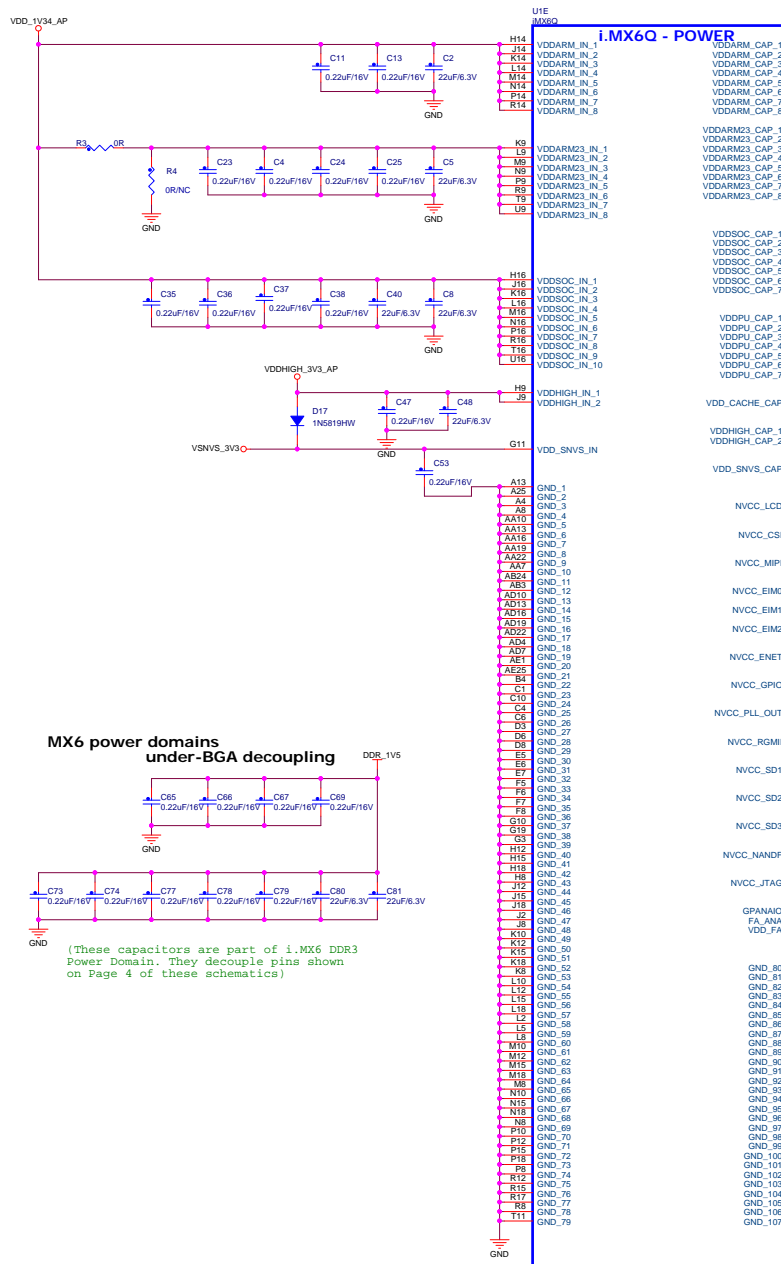


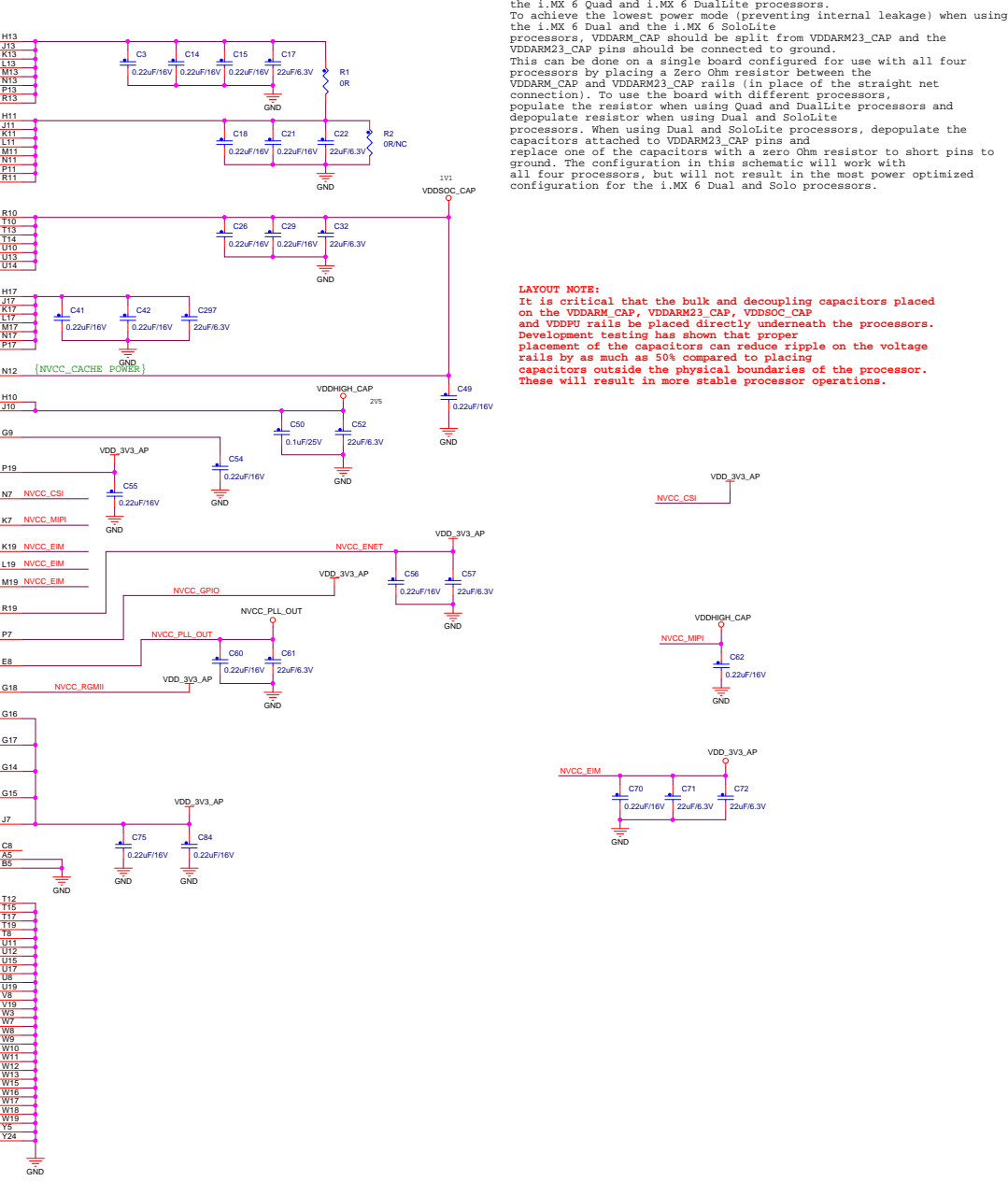
# Revision History

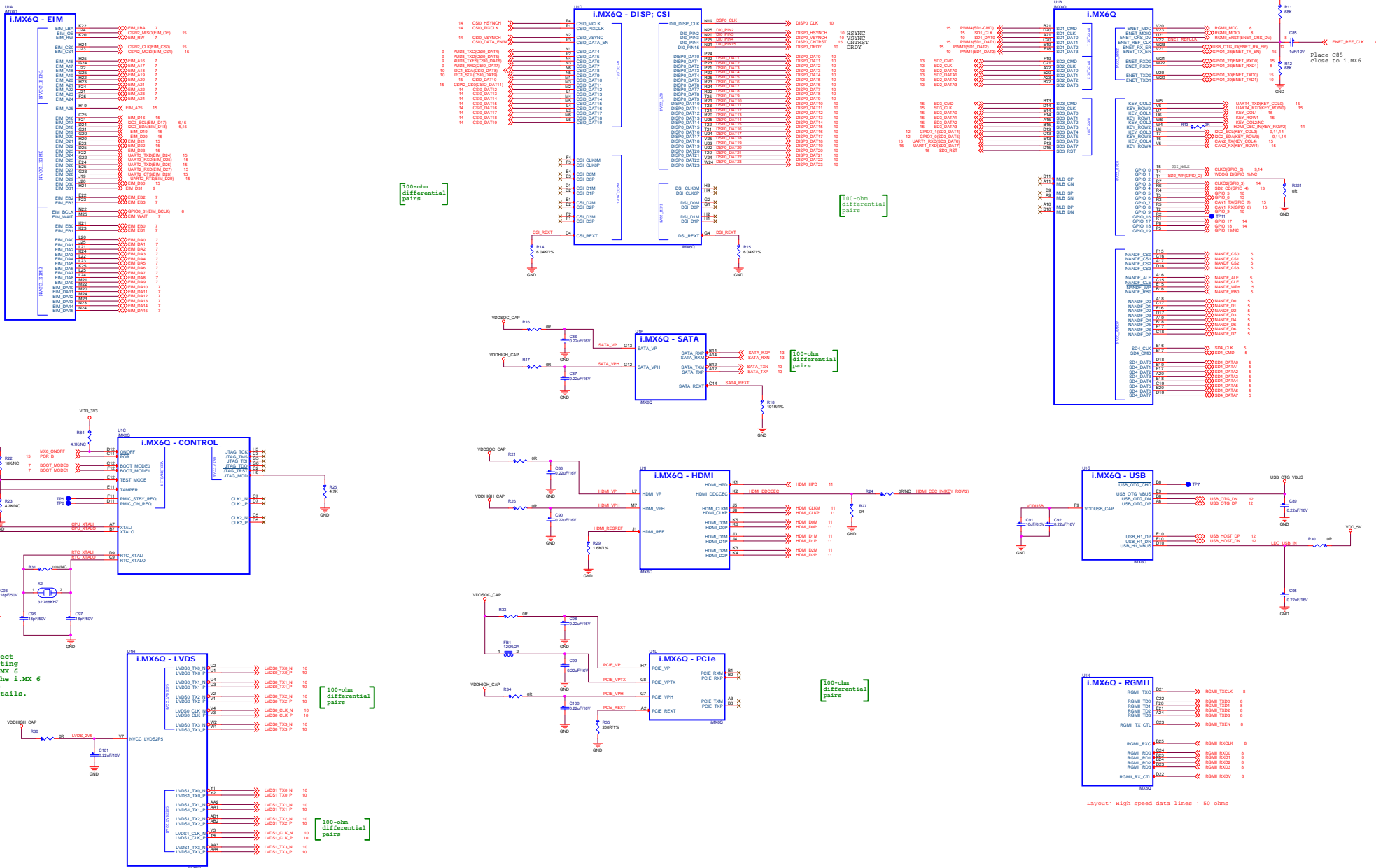
V1.0 Initial Released

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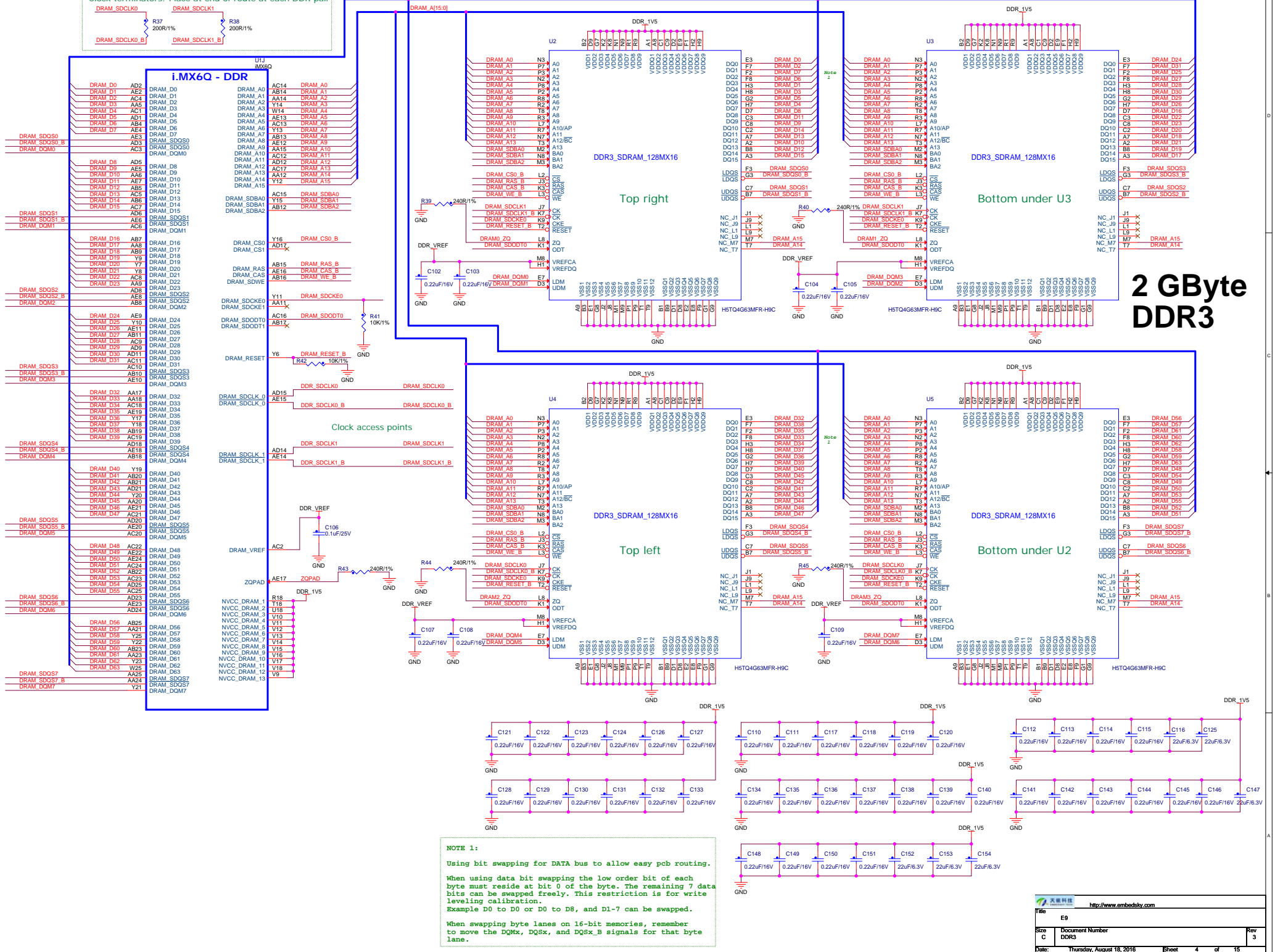
(These capacitors are part of i.MX6 DDR3 Power Domain. They decouple pins shown on Page 4 of these schematics)





Layout: High speed data lines : 50 ohms

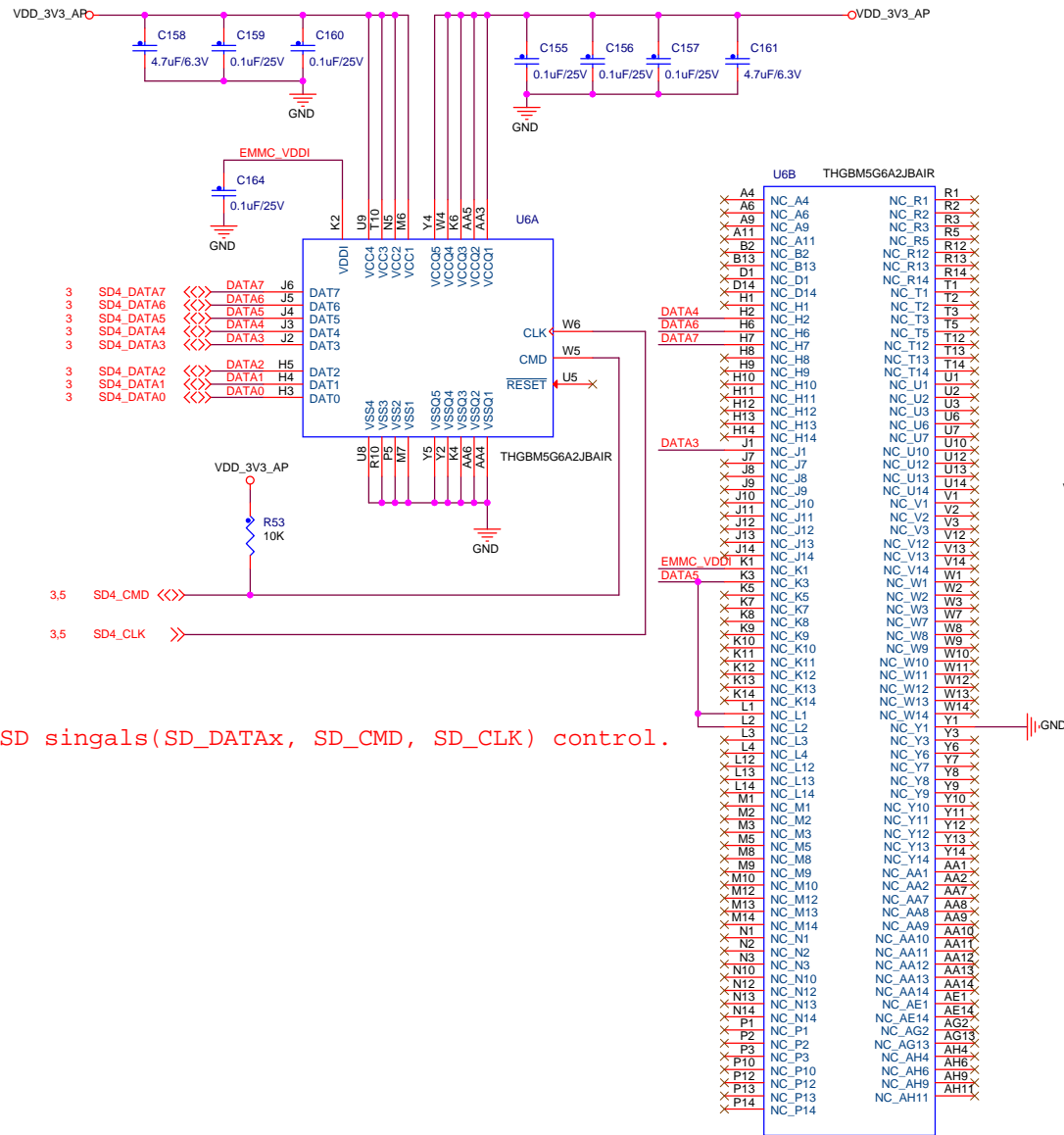
Clock terminators: Place at end of route at each DDR pair



# 2 GByte DDR3

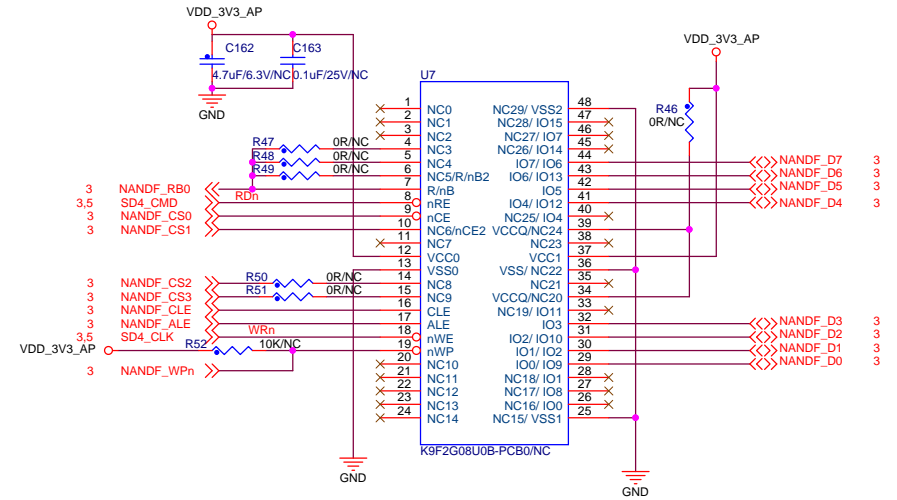
**NOTE 1:**  
Using bit swapping for DATA bus to allow easy pcb routing.  
When using data bit swapping the low order bit of each byte must reside at bit 0 of the byte. The remaining 7 data bits can be swapped freely. This restriction is for write leveling calibration.  
Example D0 to D0 or D0 to D8, and D1-7 can be swapped.  
When swapping byte lanes on 16-bit memories, remember to move the DQmX, DQsX, and DQsX\_B signals for that byte lane.

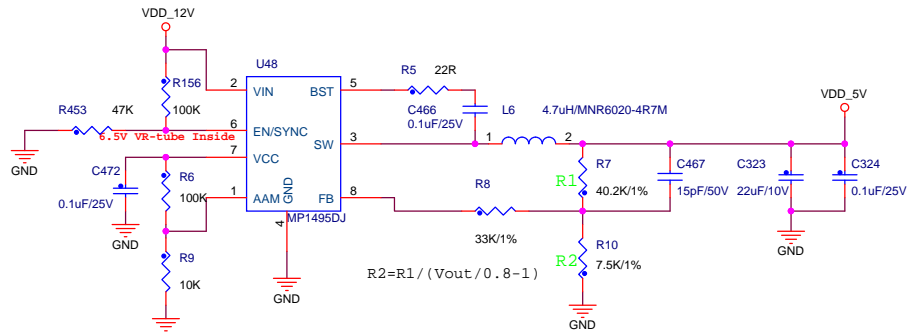
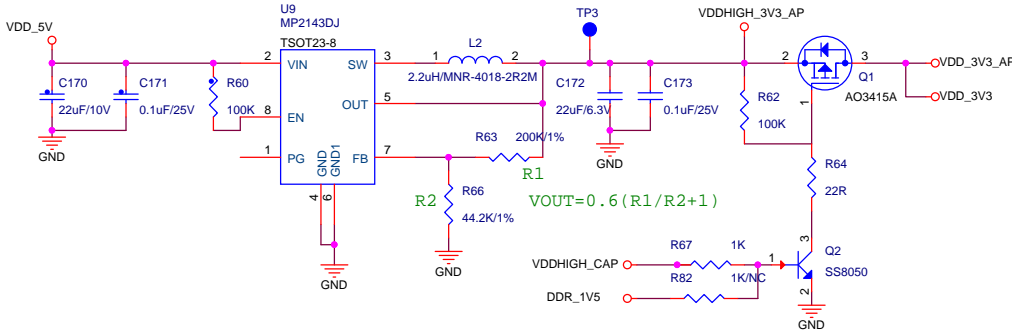
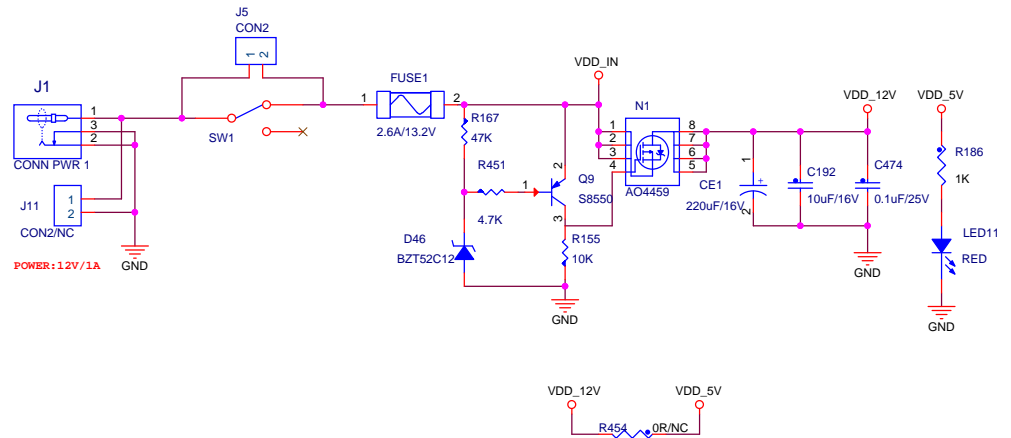
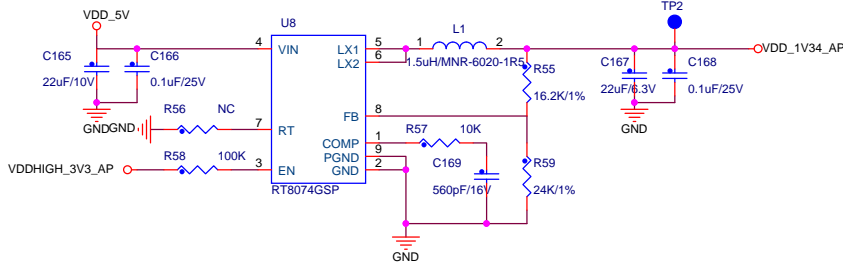
# 8GB eMMC MEMORY



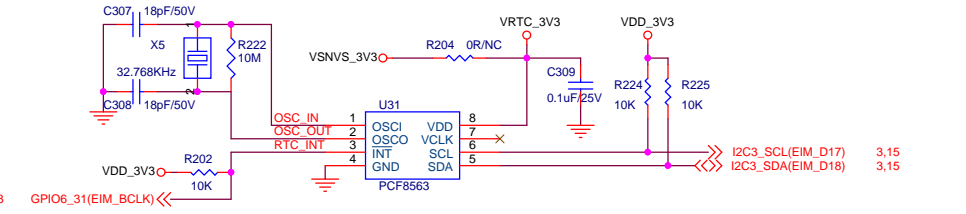
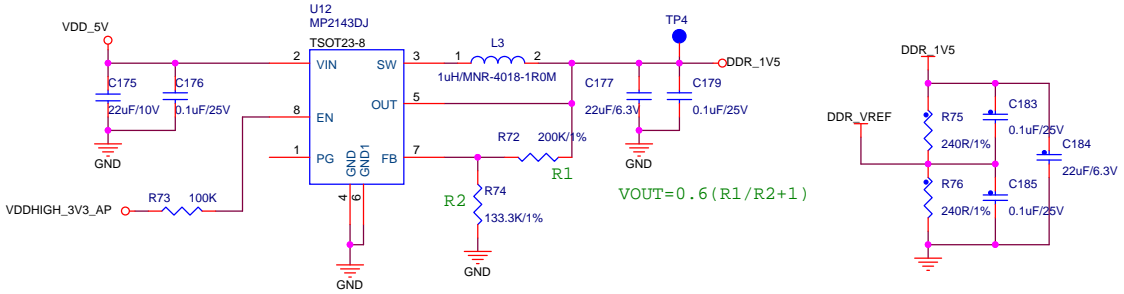
Layout:  
50ohm, SD singals(SD\_DATAx, SD\_CMD, SD\_CLK) control.

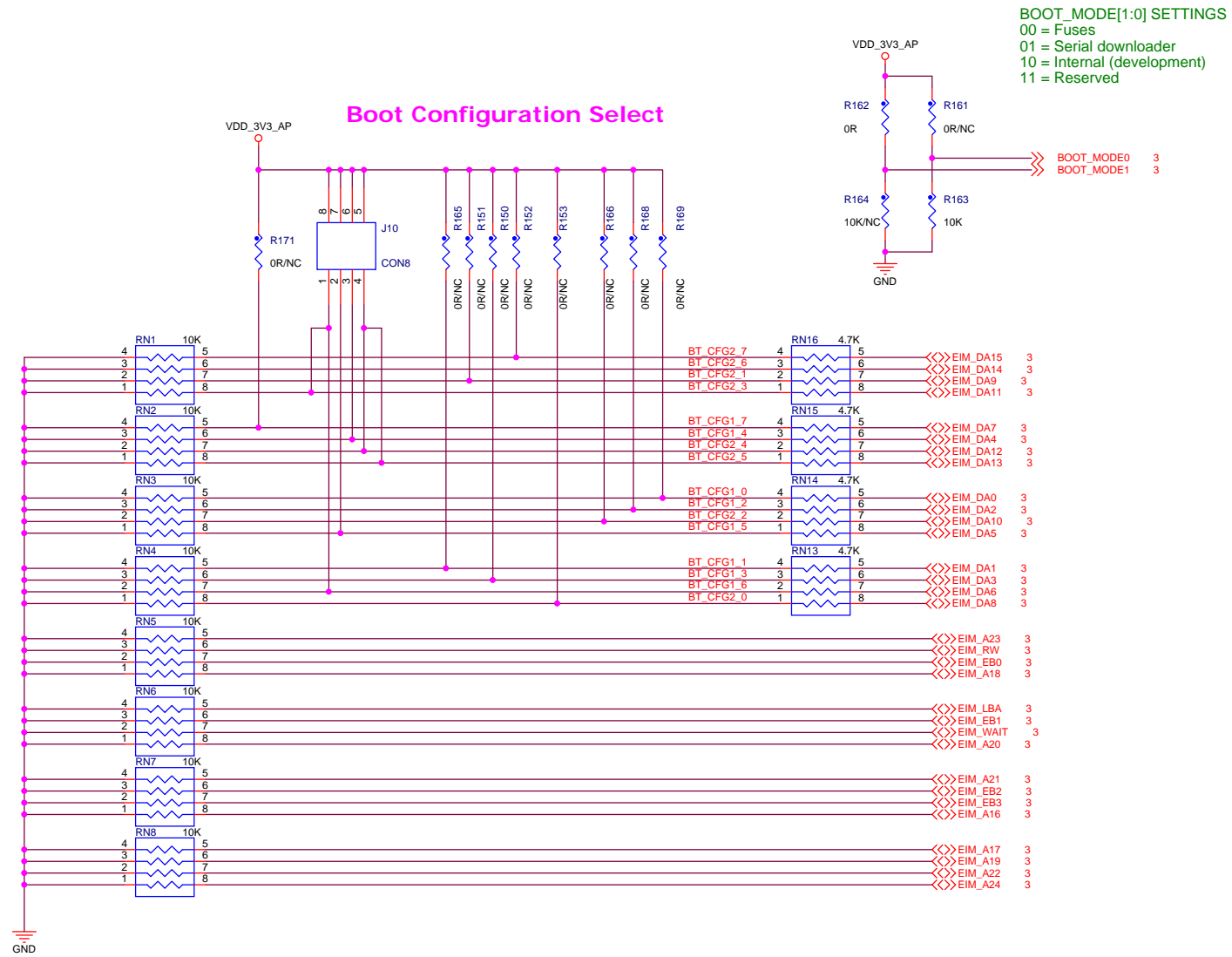
## NAND Flash memory





12V to 5V Switching Regulator with 2A output current

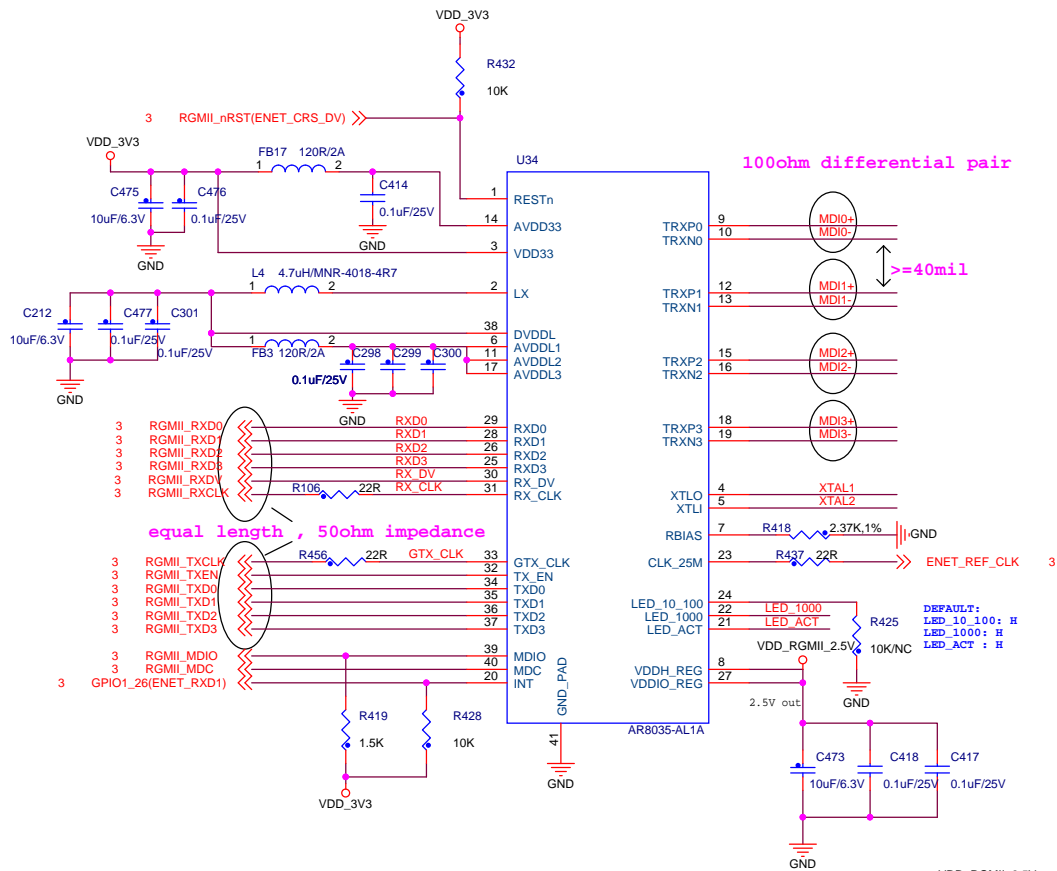




### Boot Configuration Select

G1-6 G2-3	G1-5	G1-4	G2-5 G2-4	MODE
1	0	0	0	SD2_Boot
1	1	0	1	eMMC_Boot
0	1	1	0	DownLoad

BT\_CFG2\_3 BT\_CFG1\_5 BT\_CFG1\_4 BT\_CFG2\_4  
 BT\_CFG1\_6 BT\_CFG2\_5



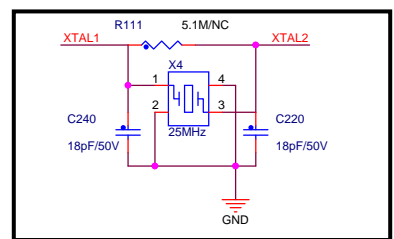
100ohm differential pair

>=40mil

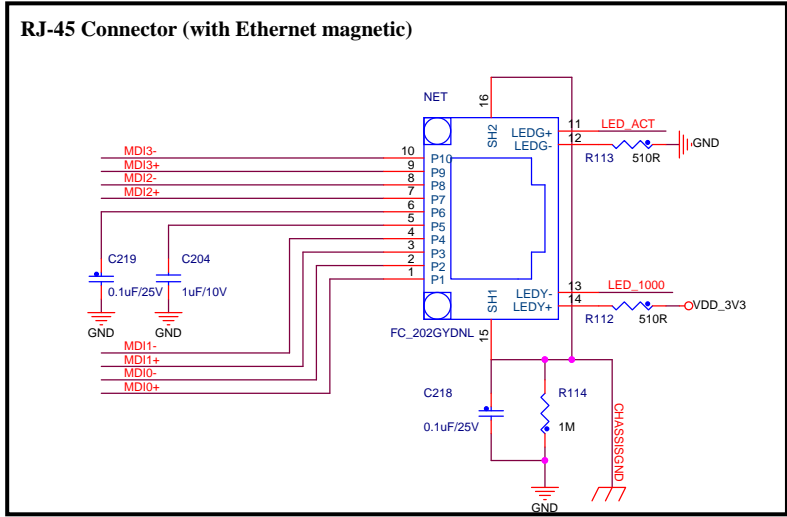
equal length, 50ohm impedance

**\*Note:**  
 L5 (4.7uH) should be as close to AR8035-AL1A LX pin (within 200mils).  
 The CT14 and C424 capacitors as close to L5 if possible.

**25MHz +- 50ppm Crystal**



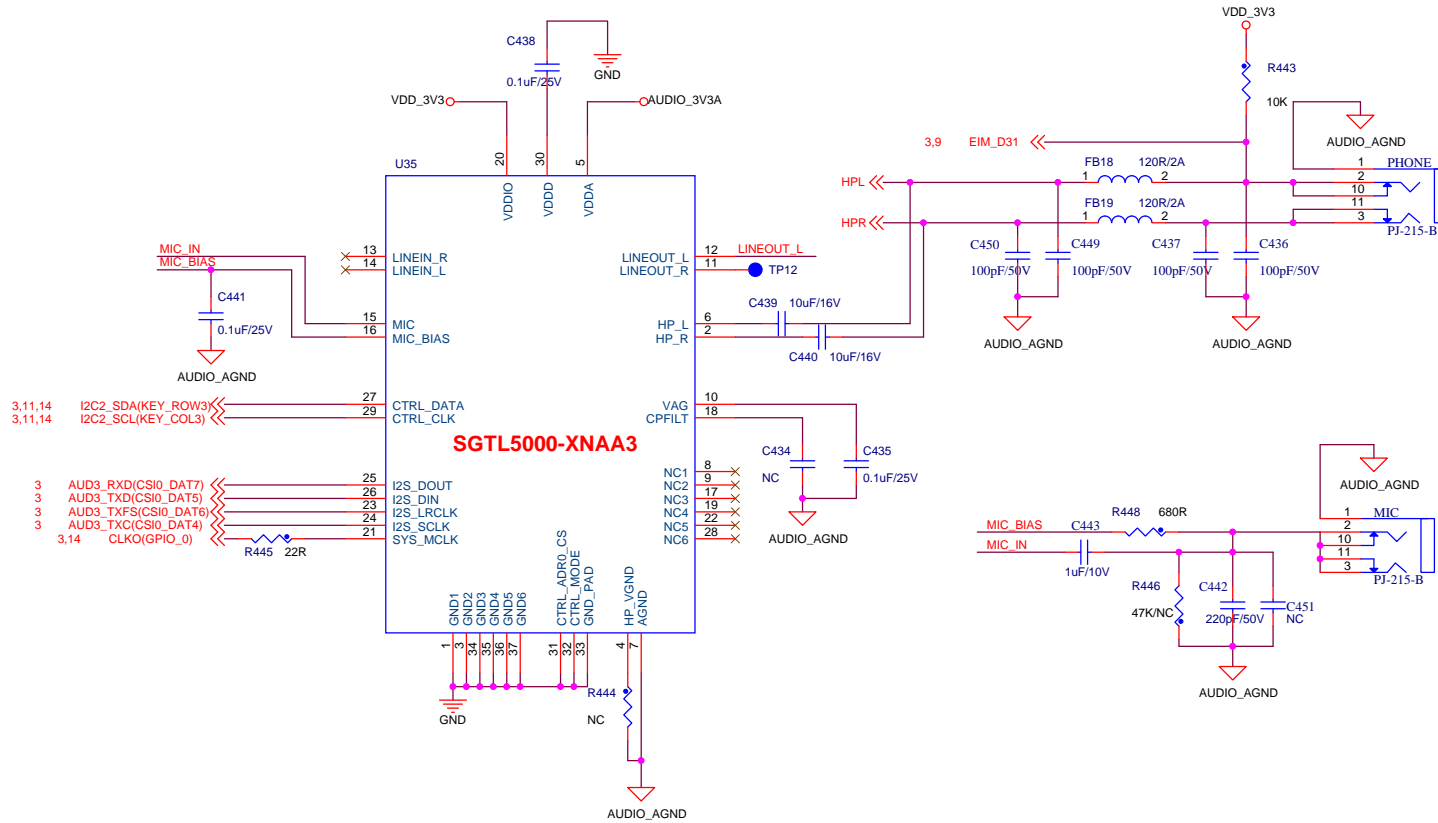
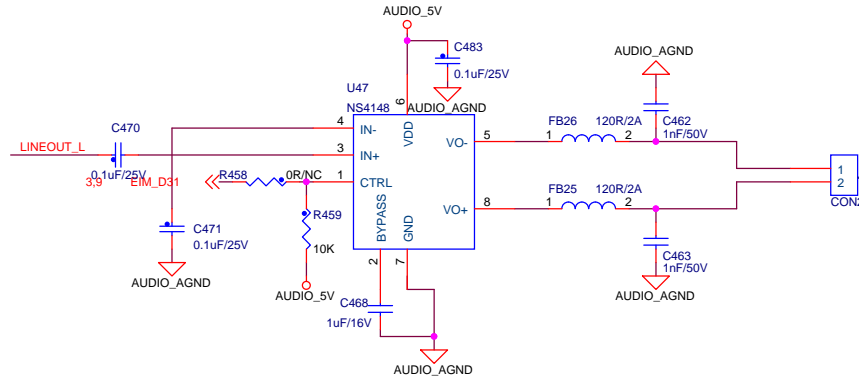
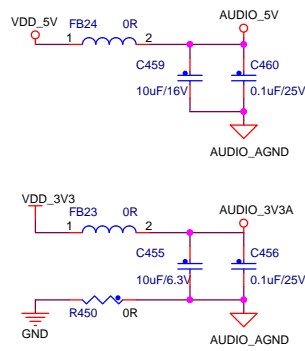
PHY address:100  
 CHANGE:000

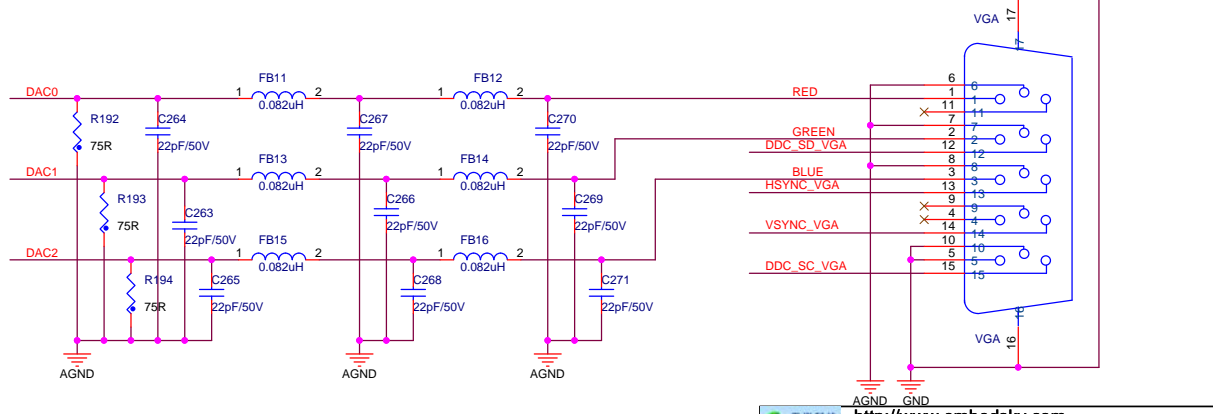
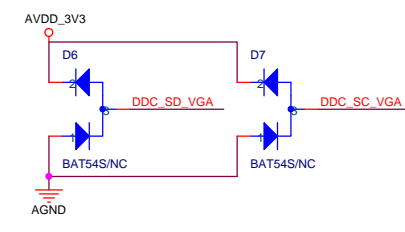
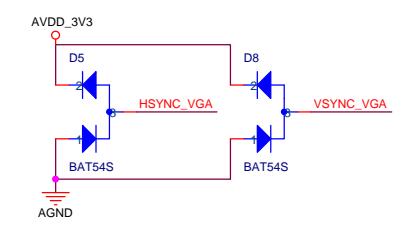
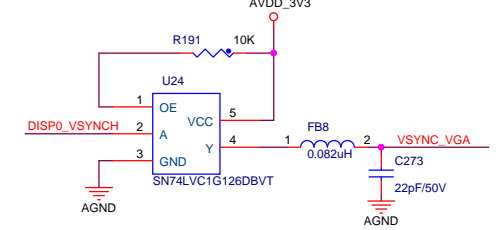
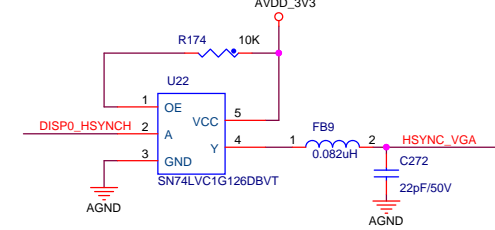
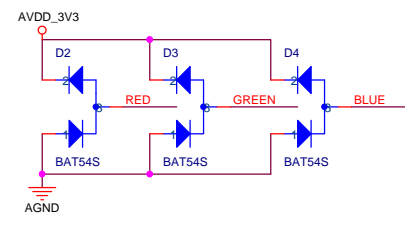
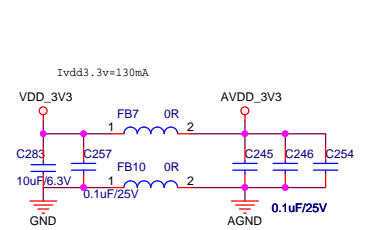
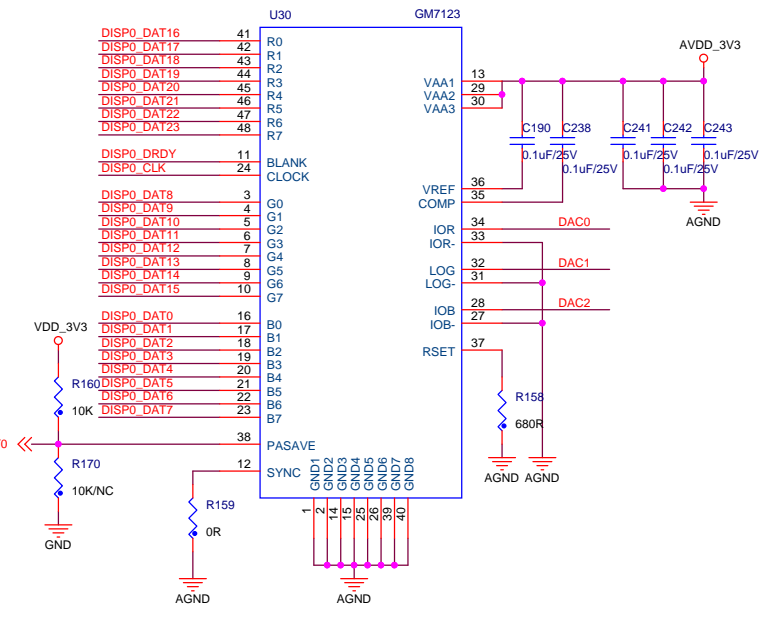
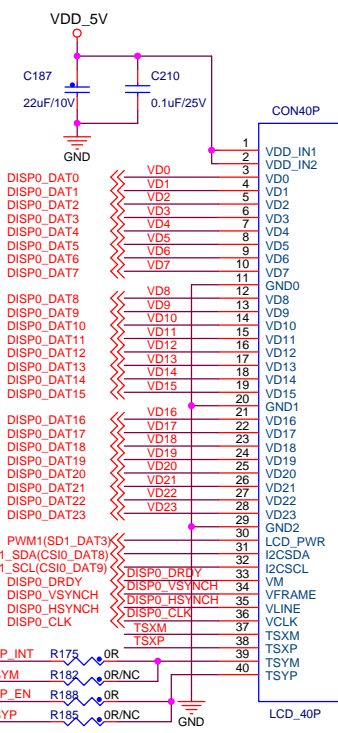
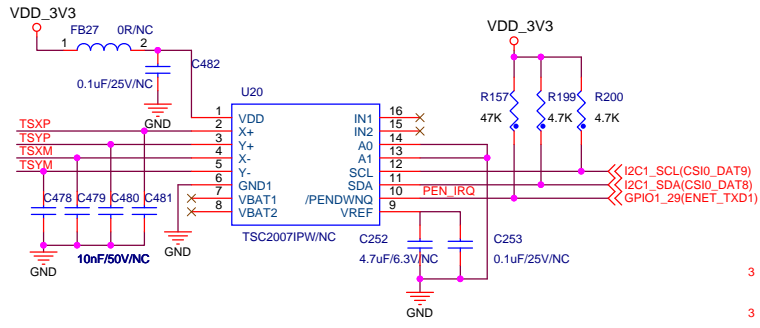
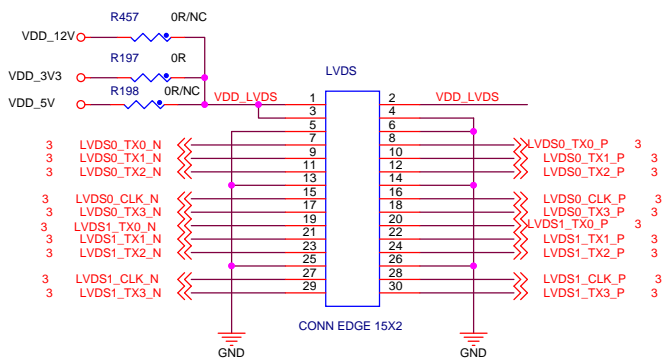


MODE[0:3]:  
 1110:RGMII, PLLON, INT  
 1100:RGMII, PLLOFF, INT

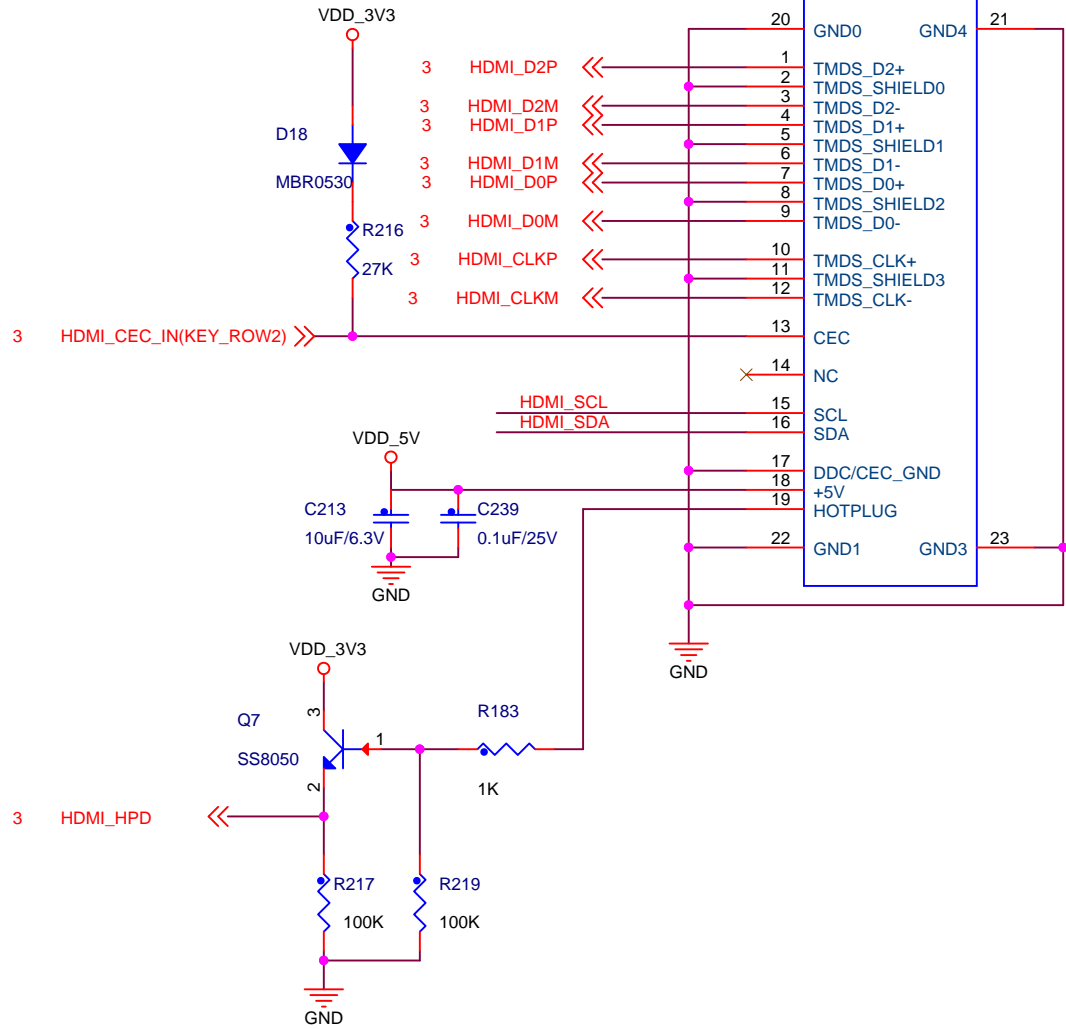
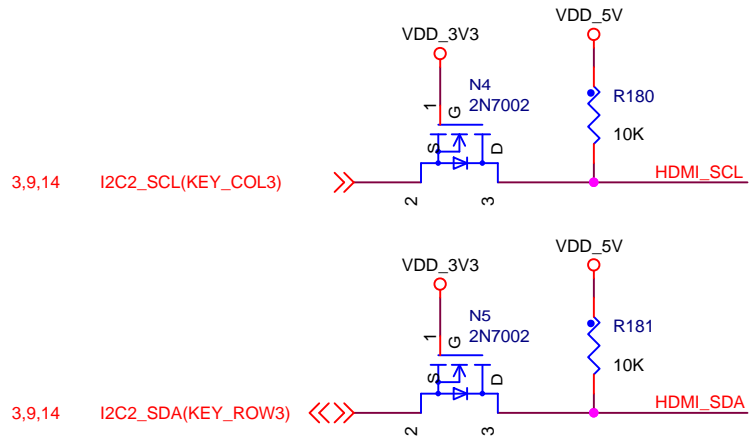
RX\_CLK:  
 0:1.5V I/O  
 1:1.8V I/O  
 2.5V I/O:PULL UP/DOWN

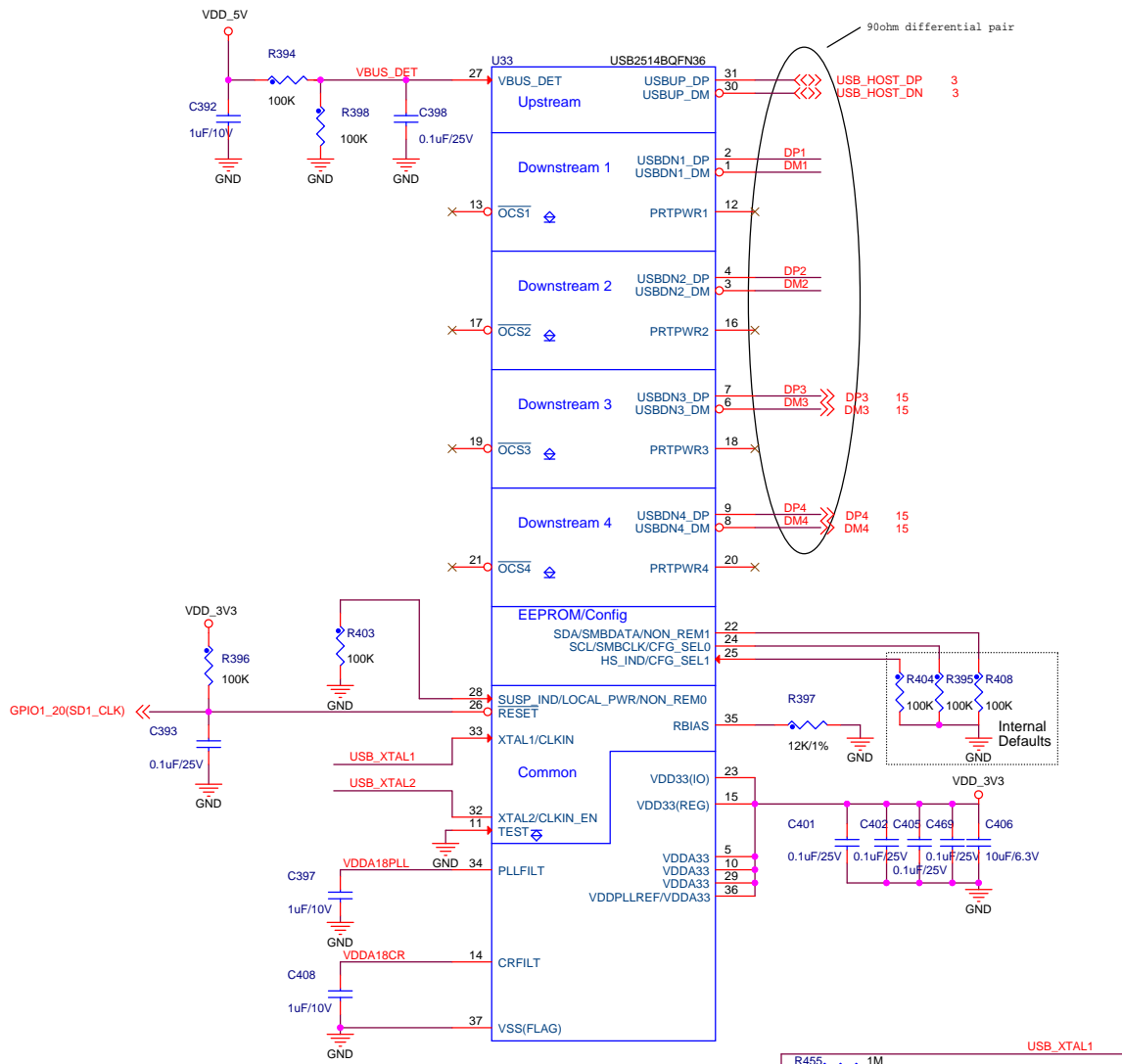




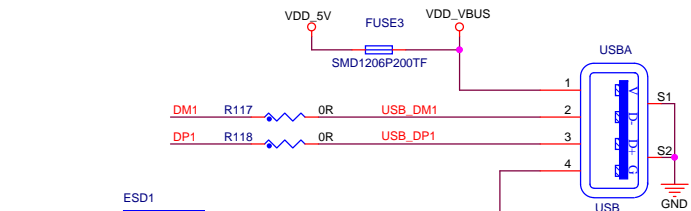
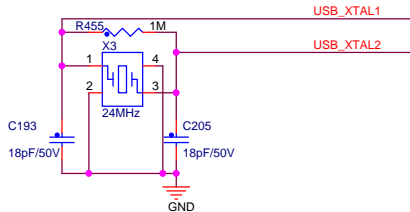


# HDMI

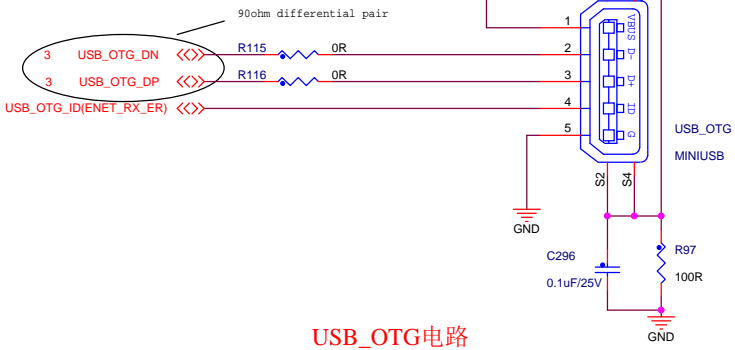
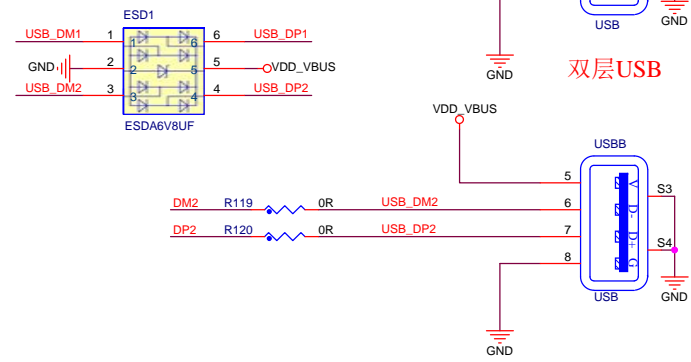




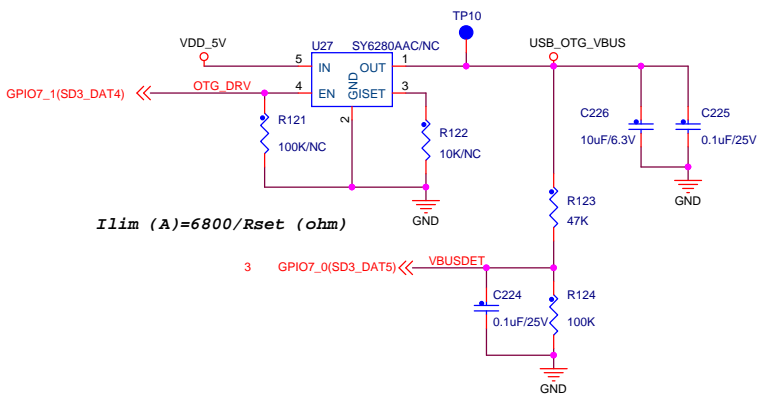
FRTPW[4:1] Status  
 1 : Battery charging feature is supported for port x  
 0 : Battery charging feature is not supported for port x



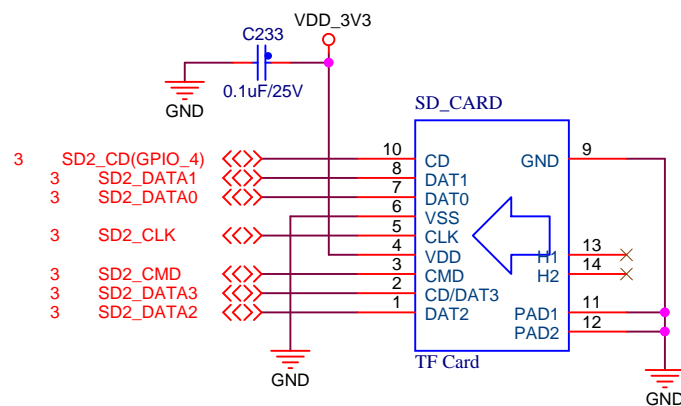
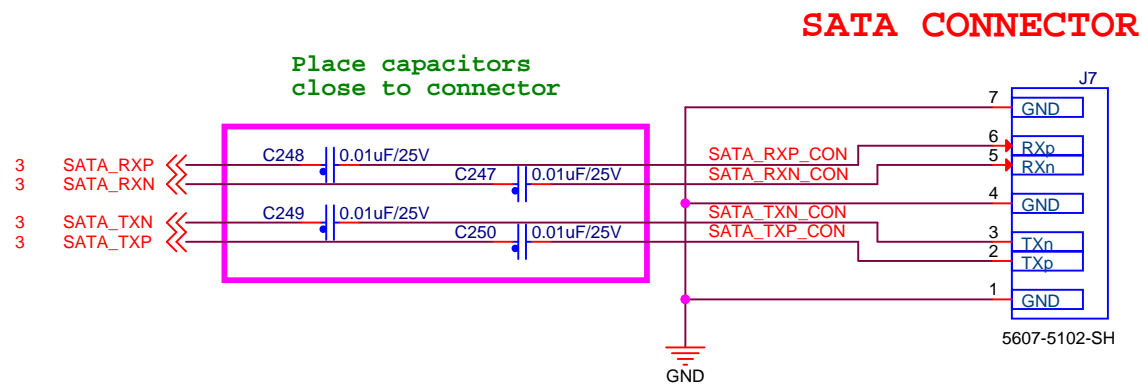
双层USB



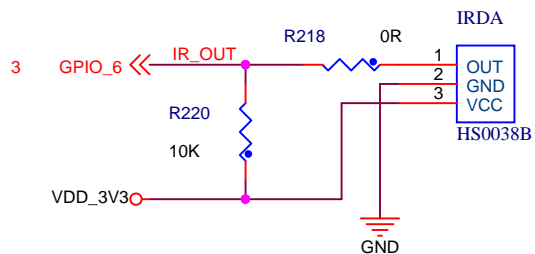
USB\_OTG电路



$$I_{lim} (A) = 6800 / R_{set} (ohm)$$



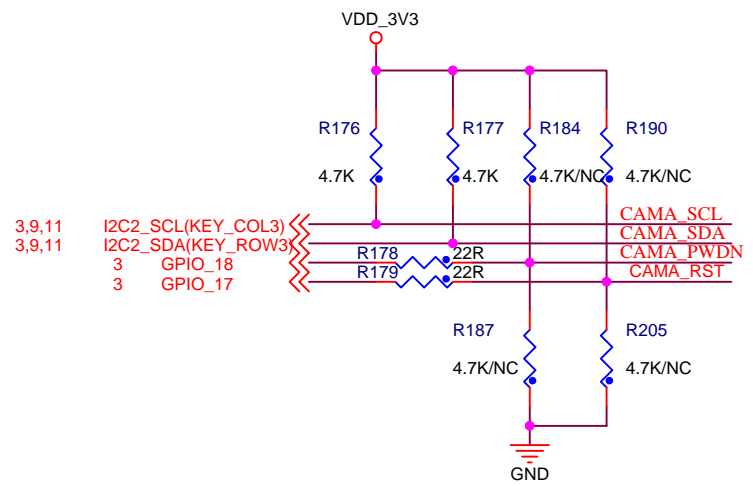
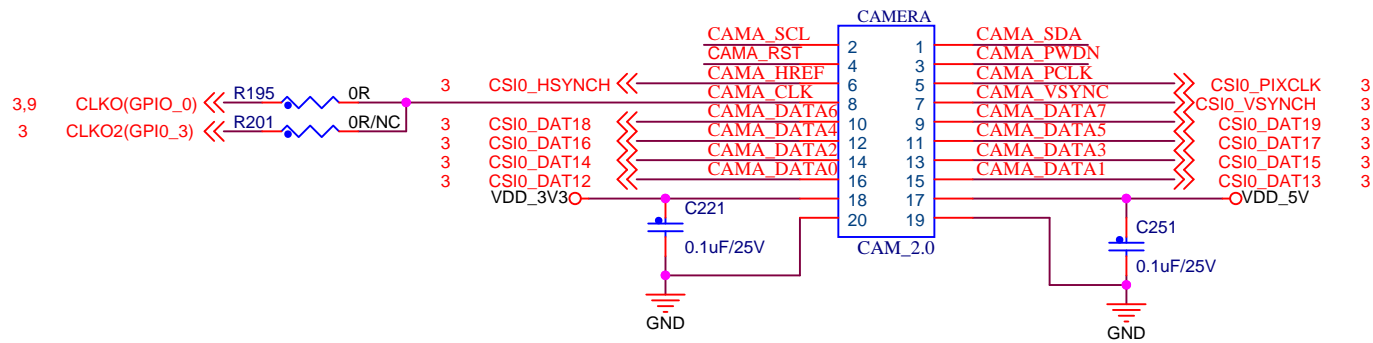
### 红外电路

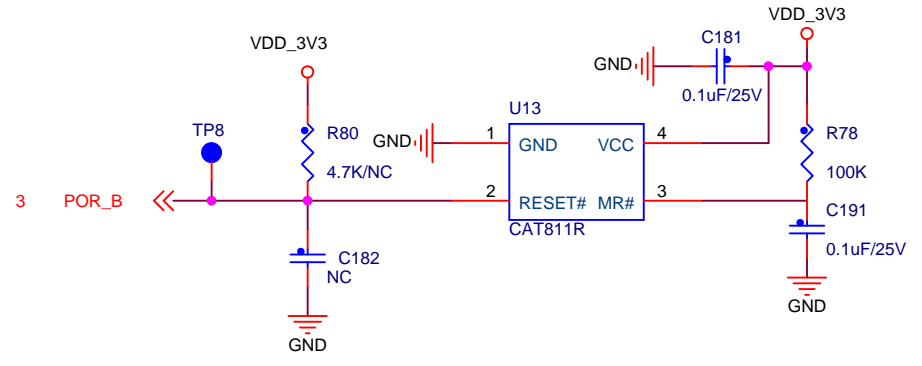
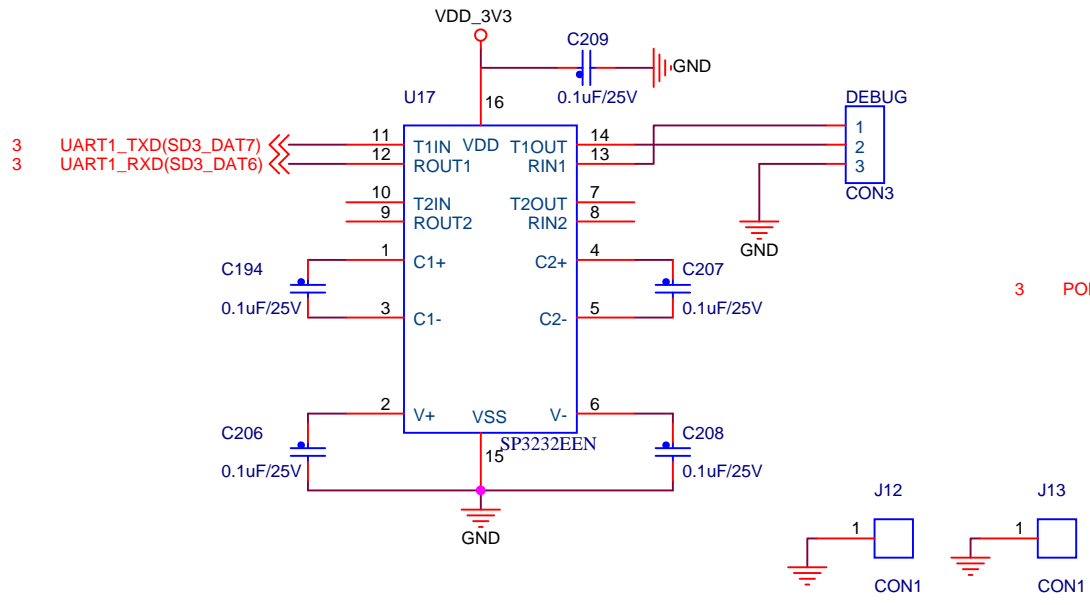


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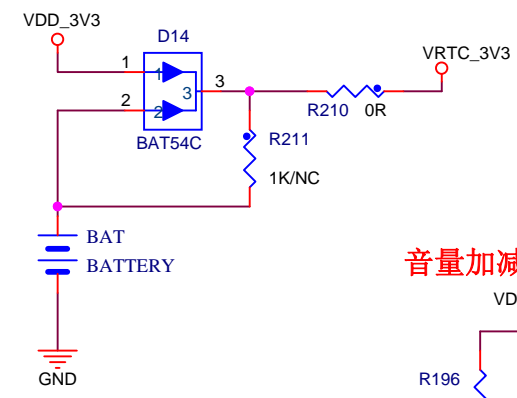
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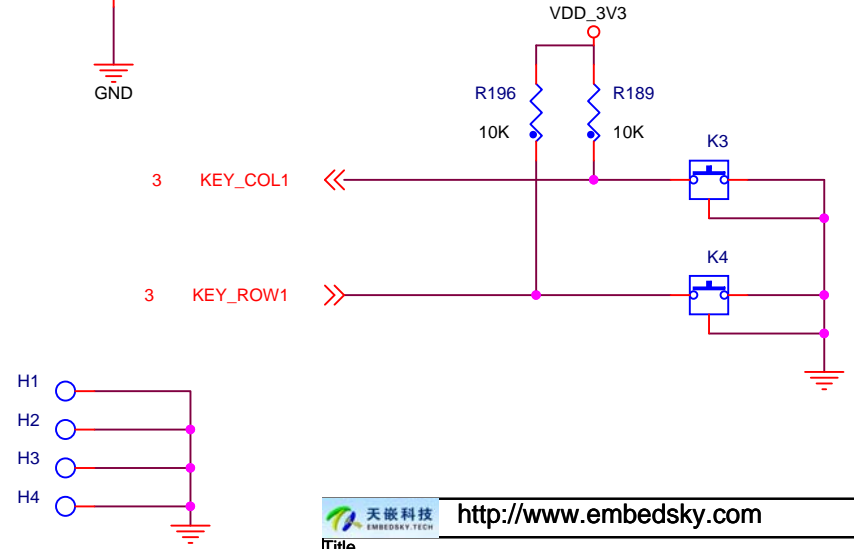




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