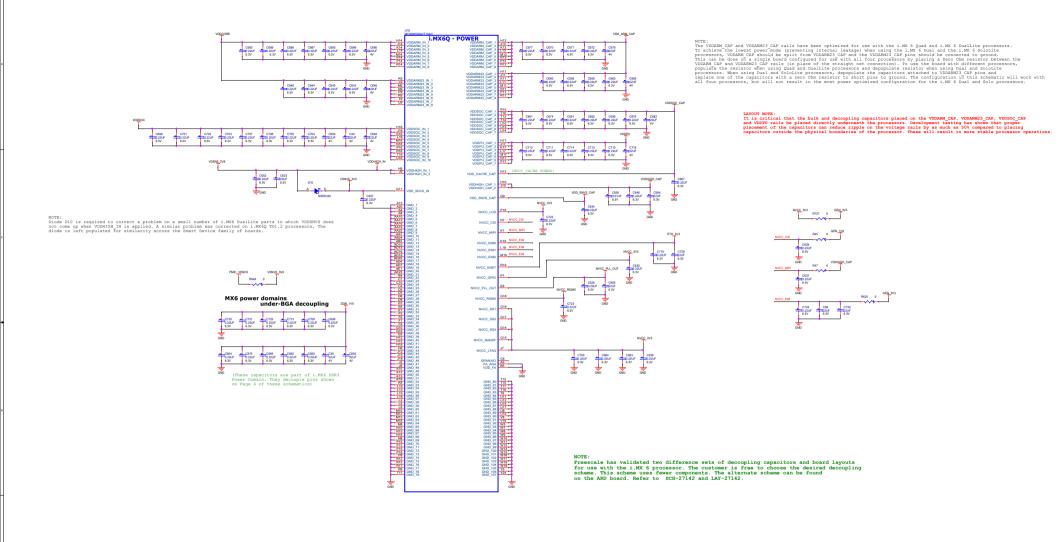
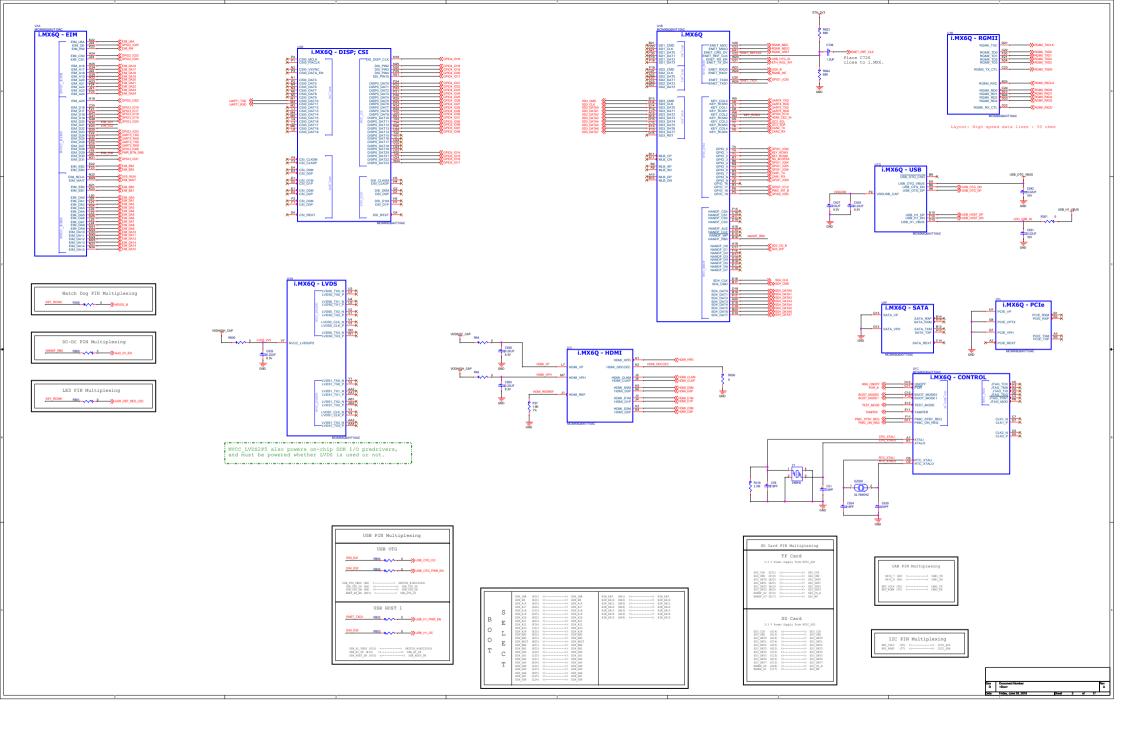
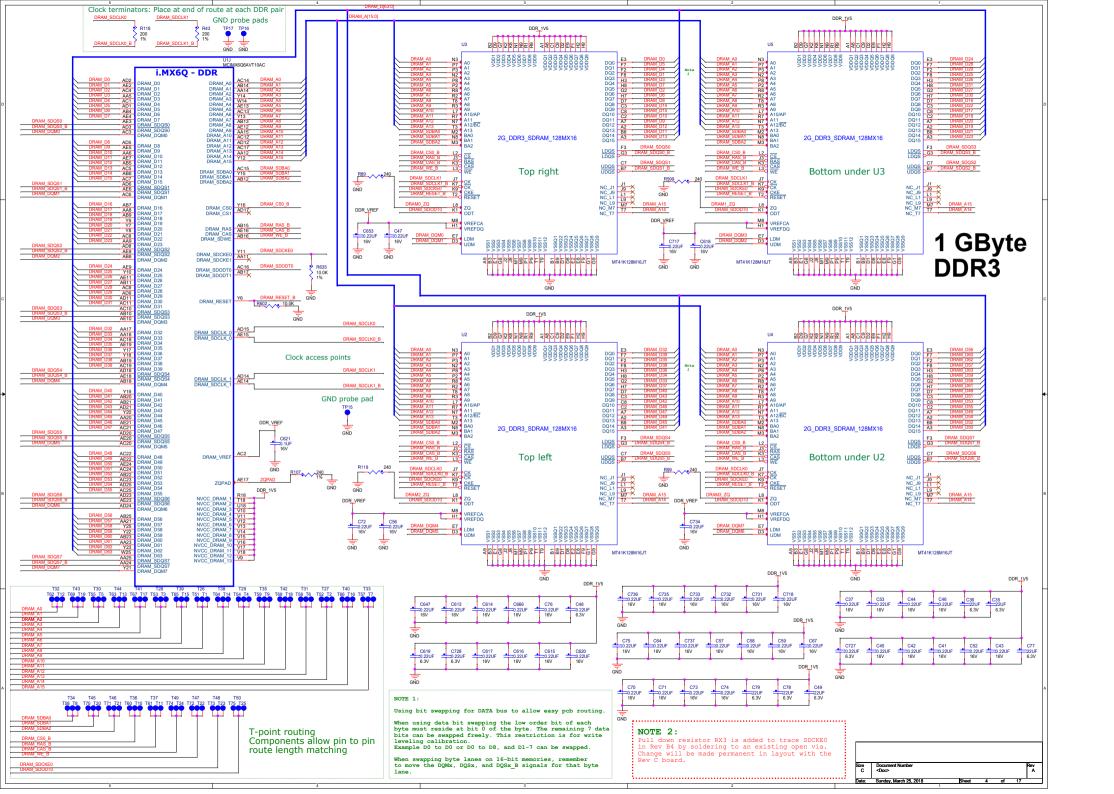
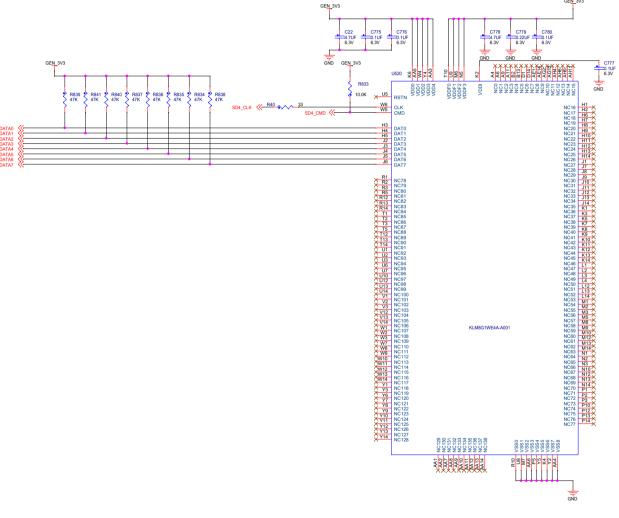
Rev. Code	Date	Released Notes
1.0	2018-03-29	Author: Joe.Zhong Description: Draft
1.1	2018-06-05	Author: Joe.Zhong Description: 1. Remove R712, R713, R714, R715, R716, R717, R718, R719 2. Remove C611, C612, C68, C54 3. Remove R633, R652 4. Remove R630, R75 6. Remove R667 7. Remove R673, R740, C741 8. Remove R161 9. Remove R161 11. Remove R638, R144, R147, R148 10. Remove R12 11. Remove R639, R639 12. Remove R723 13. Remove R733 13. Remove R601, R33 14. Remove R632 16. Remove R632 16. Remove R108, R105, R98, R94, R109 17. Remove R830 18. Remove R704 18. Remove B7500, C590 21. Remove B7500, C590 21. Remove B7500, C590 21. Remove R71 22. Remove R72 24. Remove R72 25. Change the alias of pad G20 (EIM_D20) to GPIO3_IO20 All GOIO3_IO20s are changed to GPIO3_IO20, too. 26. Change the Sy DC supply from MicrousB(J513) to Connector (J514) Let GPIO5_IO09, GPIO5_IO10, GPIO5_IO11, GPIO5_IO12 and GPIO5_IO13 unconnected. Change J514.22, J514.24, J514.28 and J514.30 to 5V_DC Delete J513 and let J501 to be DNP







## 8GB eMMC MEMORY



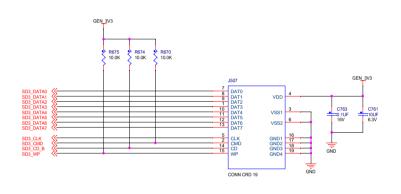
avout:

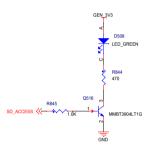
50ohm, SD singals (SD DATAX, SD CMD, SD CLK) control.

NOTE:

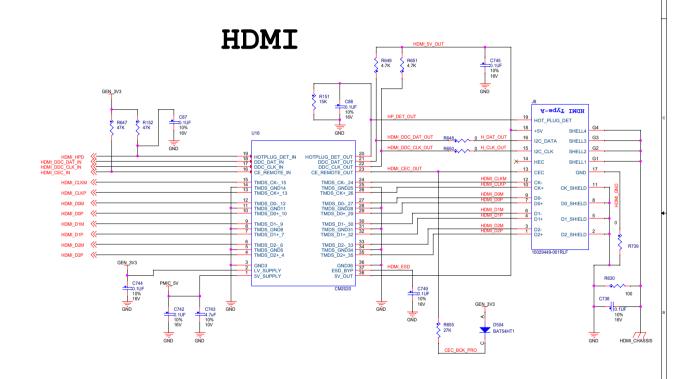
RST\_B pin is not enabled by default. It must be turned on by Software. Therefore, part with RST\_B pin can be used in existing designs that do not connect This pin.

# SD CARD SOCKET





Layout: 50ohm, SD signals(SD\_DATAx, SD\_CMD, SD\_CLK) length equal



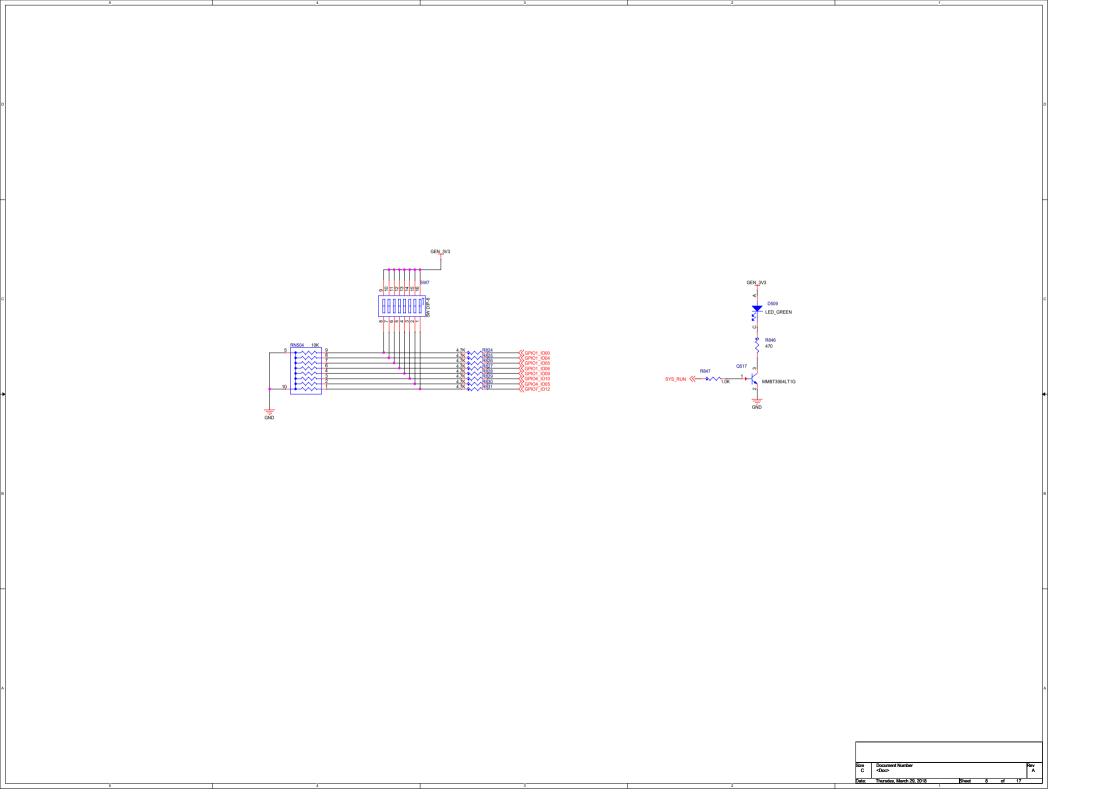
### Layout: HDMI 100 ohm differential pairs

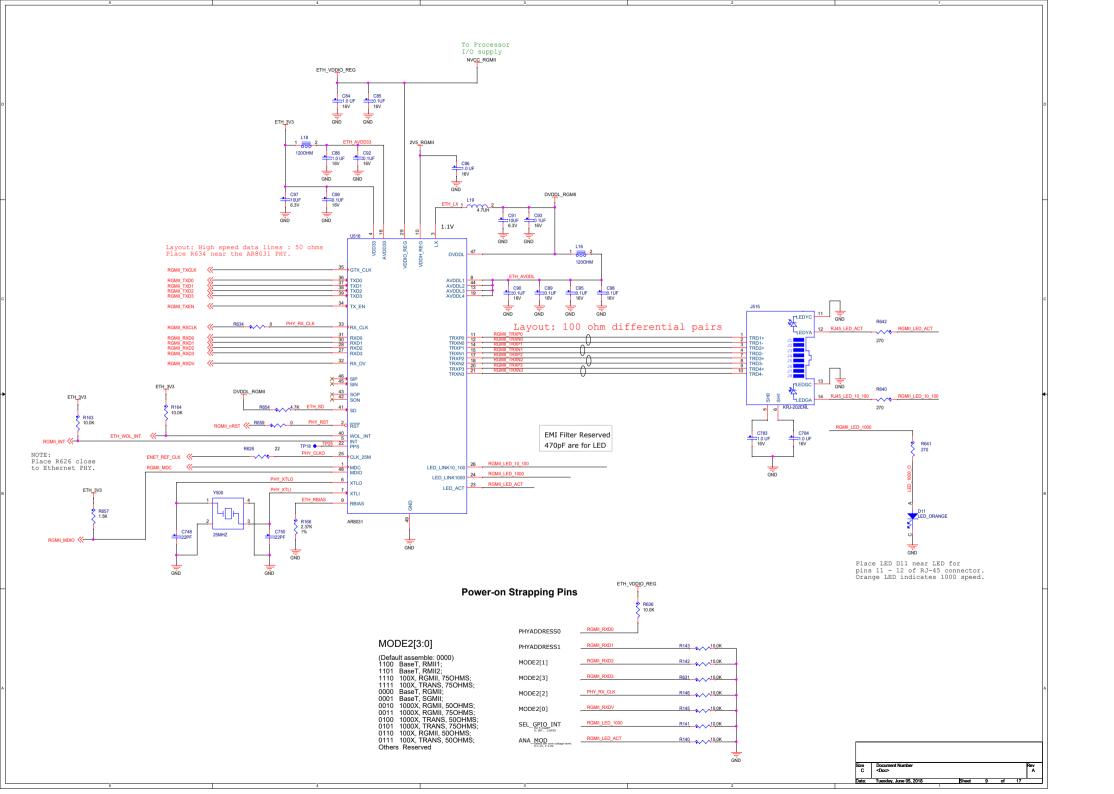
### NOTE:

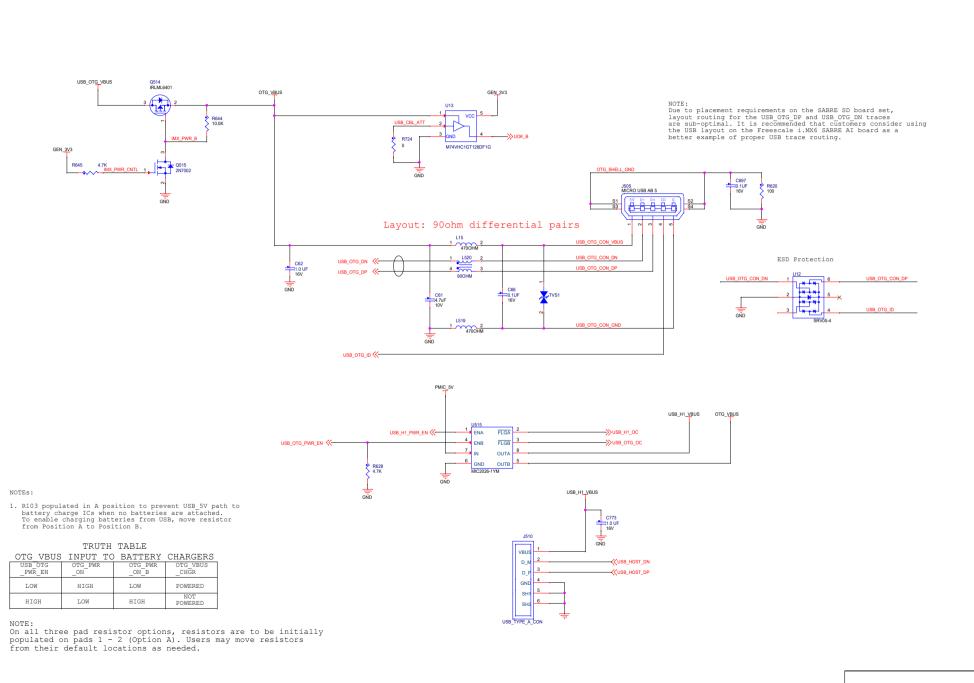
When using HDMI, I2C2 bus is limited to 100 kHz to read EDID values due to HDMI standards. I2C2 bus speed should be limited to 100 kHz whenever Hot Plug Detect is high.

#### LVDS Connector notes:

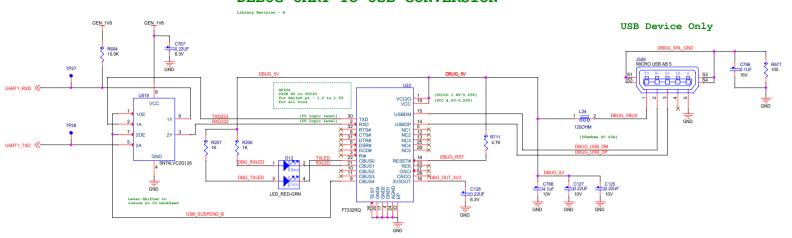
Pin 1: This pin is the Display Enable pin. It is used to Enable/Disable the HannStar display.
Pin 5: This pin is the Display Brightness control. It provides a PWM signal to the display to increase/ decrease display brightness depending on PWM duty cycle. This signal is shared by all displays, so all displays will change brightness together.



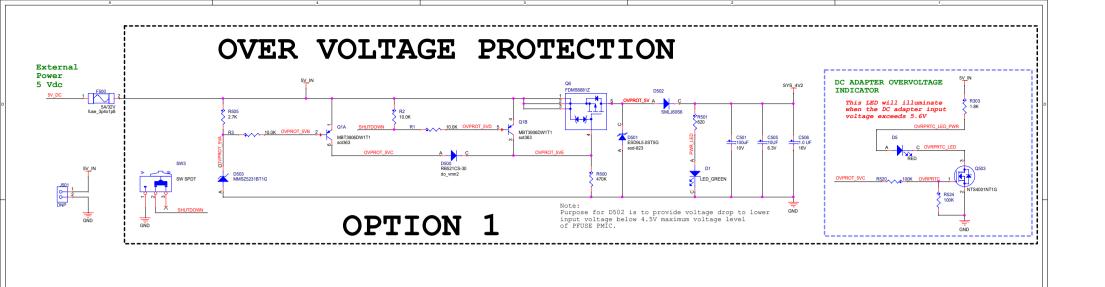


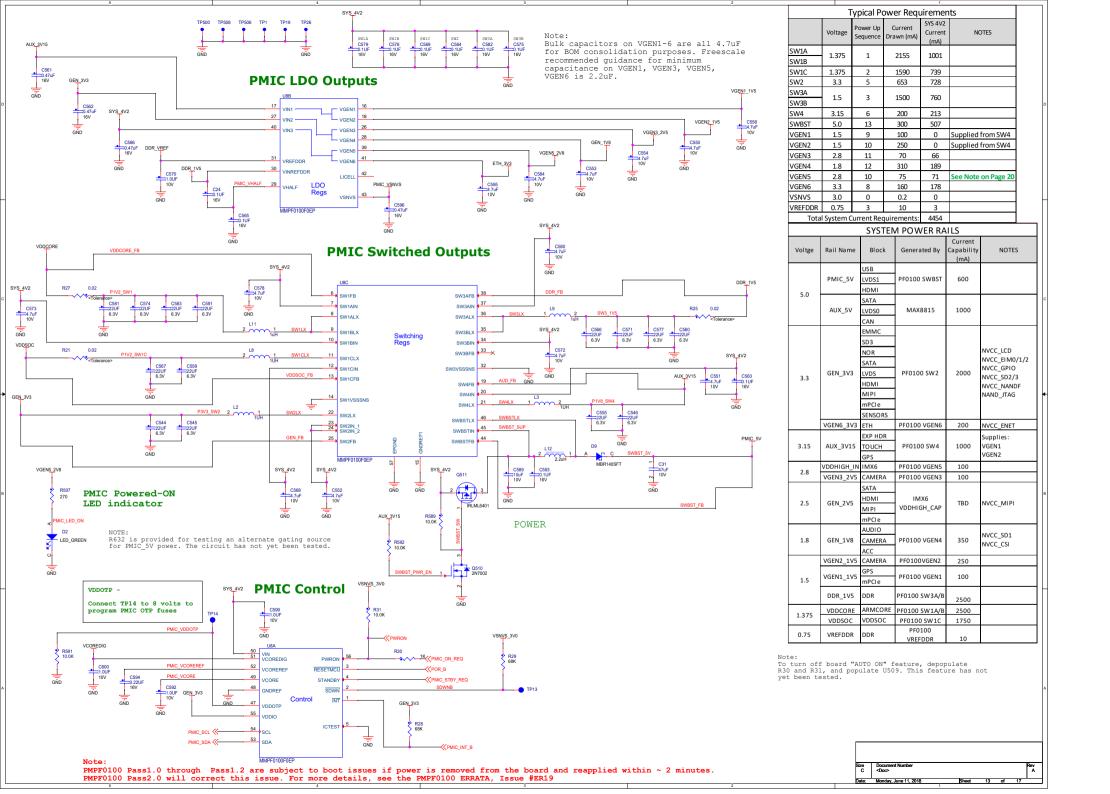


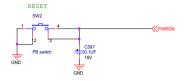
### DEBUG UART TO USB CONVERSION



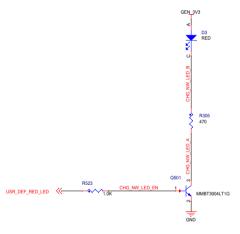
Drivers located at: http://www.ftdichip.com/Products/ICs/FT232R.htm

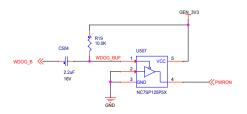




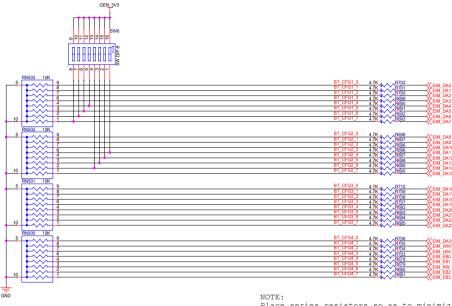


NOTE: On Rev B4 and later designs, the RESET button is connected directly to the PWRON input of the PMIC. This will cause a complete board reset (Processor & PMIC) when the RESET button is pressed.





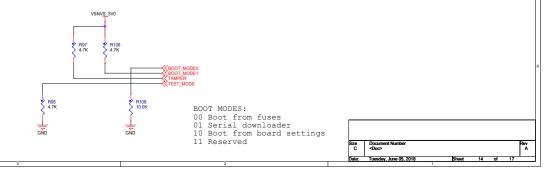
### **Boot Configuration Select**

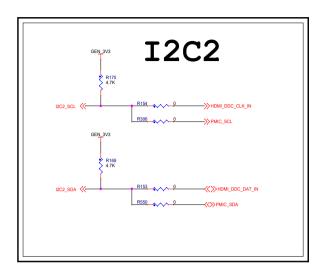


NUTE:
Place series resistors so as to minimize EIM portion of
trace length. Two layout possibilites include:
1) As close to processor as possbile.
2) Close to other componets using EIM signals.

Boot Select Table

2000 001000 14010										
8	7	6	5	4	3	2	1			
BT_CFG1_7	BT_CFG1_6	BT_CFG1_5	BT_CFG1_4	BT_CFG2_6	BT_CFG2_5	BT_CFG2_4	BT_CFG2_3			
				X 0 = 1-bit		01 = SD2 Boot				
	011X = MMC/	eMMC Boot		X1 = 4-bit		10 = SD3 Boot				
				10 = 8-bit		11 = SD4 Boot				
				V0 - 1 hit		01 = SD2 Boot				
010X = SD/eSD Boot				X 0 = 1-bit X 1 = 4-bit		10 = SD3 Boot				
				X1 - 4-01t		11 = SD4 Boot				
	0010 = SATA E	Boot		X	X	X	0			





# **5.0V@1A DC2DC**

