

Power

Tree:

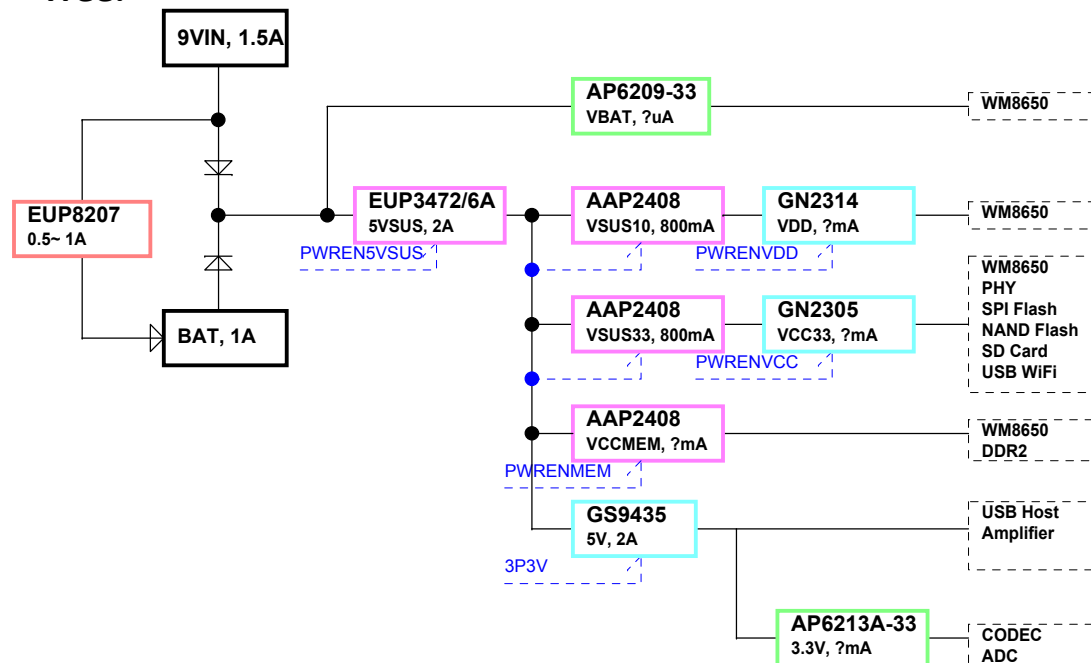
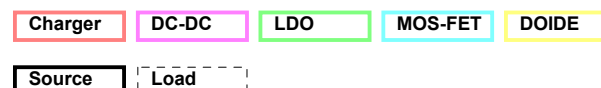


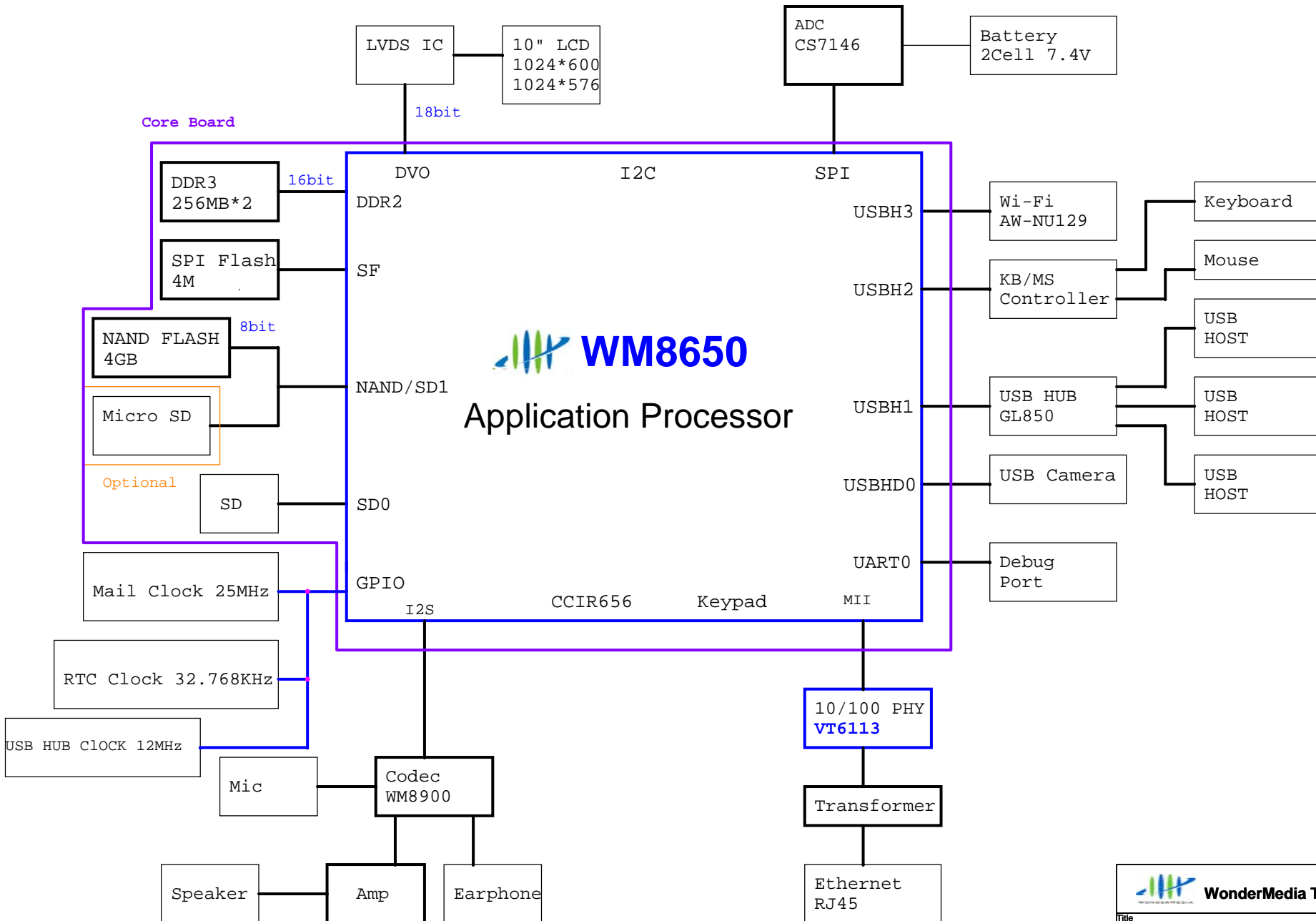
Illustration:

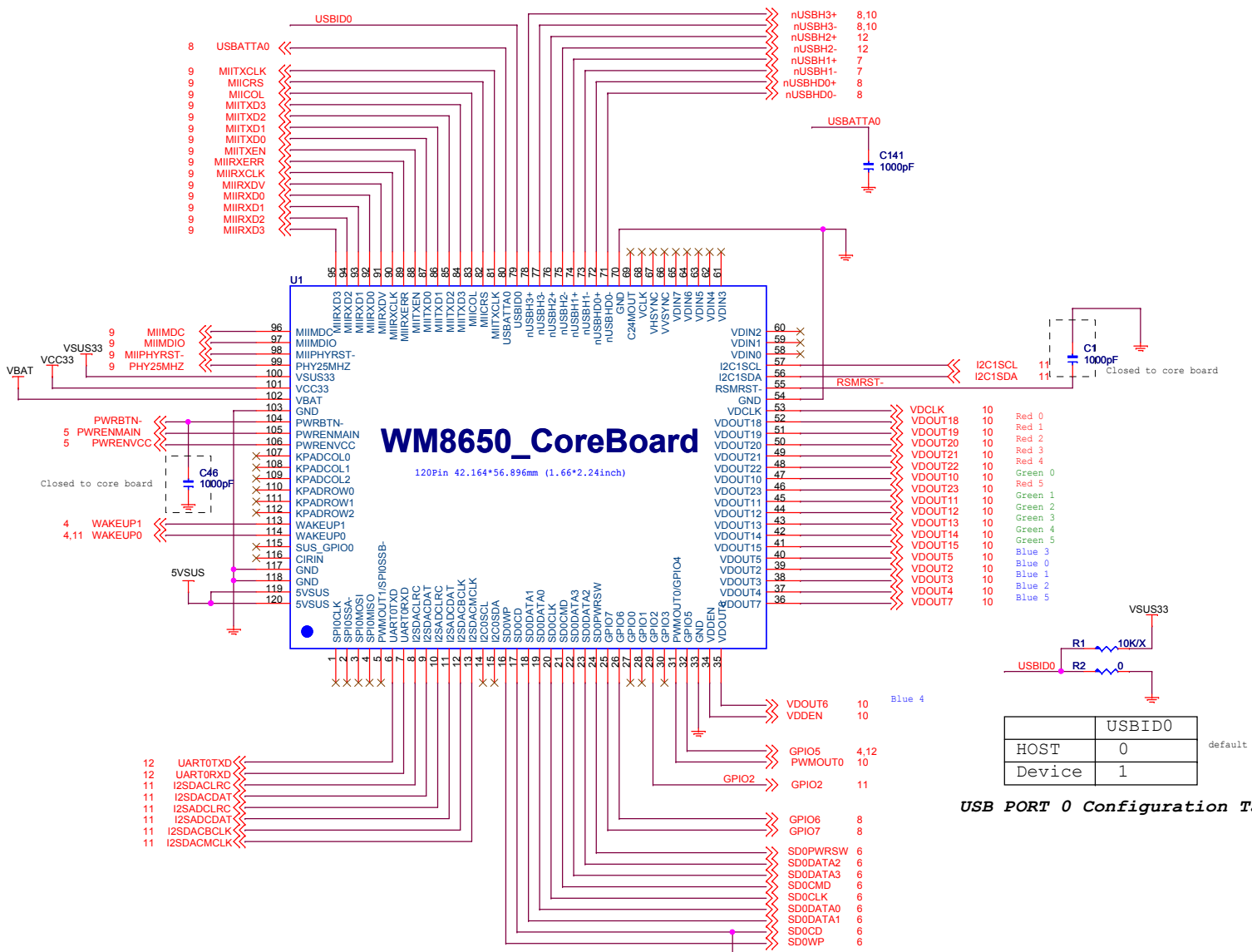


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Block Diagram

(10inch SmartBook)





WM8650_CoreBoard

120Pin 42.16*56.89mm (1.66*2.24inch)

	USBID0
HOST	0
Device	1

USB PORT 0 Configuration Table

- WAKEUP0 BAT_LOW Detector
- WAKEUP1 DCIN_DET
- PWMOUT0 LCD_BL_DIM
- PWMOUT1 SPIOSSB-
- GPI00 Touch INT
- GPI01 MOTOR_SHAKE
- GPI02 Codec INT
- GPI03 G-Sensor-INT
- GPI04
- GPI05 Charger_STAT
- GPI06 Wifi_POWER_DN
- GPI07 CAMERA_POWER_DN
- SUS_GPI00 MUTE_GPIO
- I2C0 I2S / VDOUT / EC
- I2C1 none
- SPI0 Touch Pad
- KPADCOL0 - Volume + Key
- KPADCOL1 - Volume - Key
- KPADROW0 - BACK Key
- KPADROW1 - Menu Key

Core Board Package

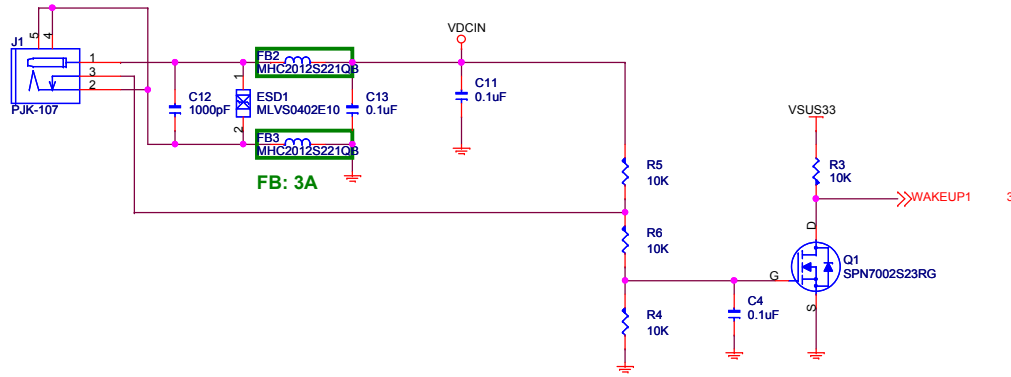
Size Custom Document Number **WMS8134C** Rev 1.0

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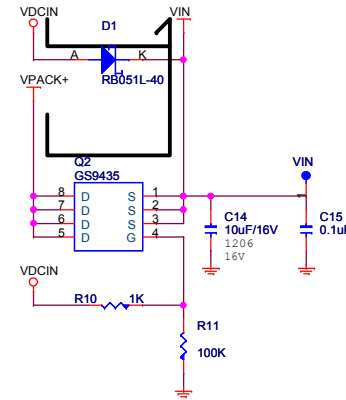
DC-IN and Battery

9V DC Input 1.5A

DC adapter requirement
Voltage: (9.7V Max)
9V min @1.5A

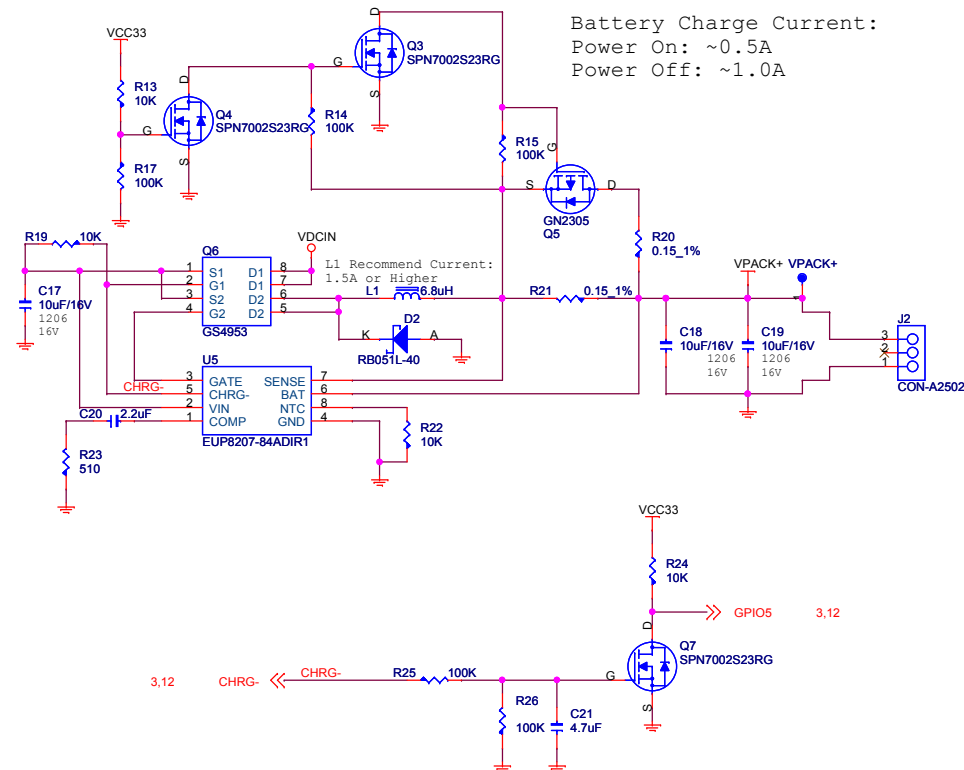


DC Switch

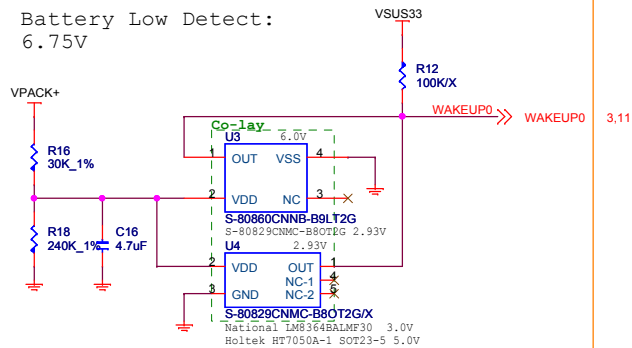


Battery charger 2-Cell

Battery Charge Current:
Power On: ~0.5A
Power Off: ~1.0A



Battery Low Detect:
6.75V



Replacement:

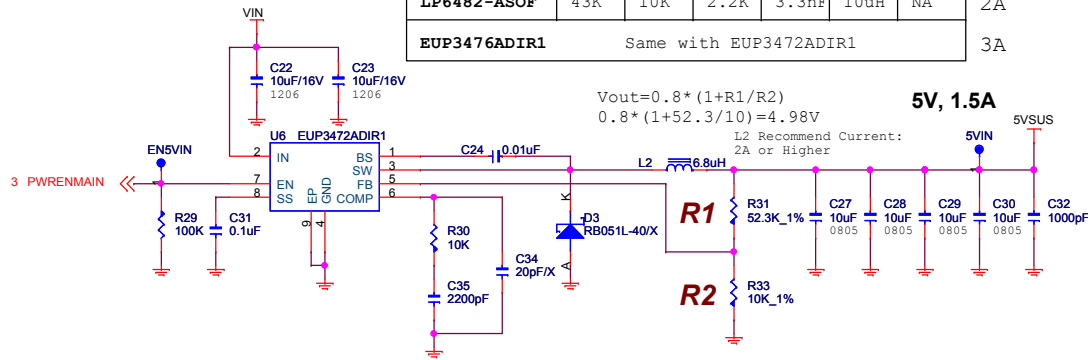
IC	R2	R3	
5.0V	30K	84.5K	6.78V
2.93V	47K	35.7K	6.79V
3.0V	47K	37.4K	6.77V

Voltage Regulators

VIN->5VSUS, 2A

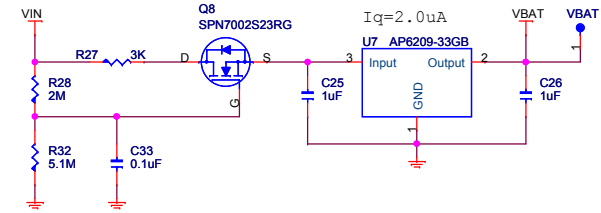
Replacement:

U6	R26	R29	R27	C37	L2	D4	
APW7156-KA	43K	10K	20K	4.7nF	6.8uH	Yes	3A
RT8272GSP	43K	10K	41K	2.2nF	6.8uH	Yes	3A
LP6482-ASOF	43K	10K	2.2K	3.3nF	10uH	NA	2A
EUP3476ADIR1	Same with EUP3472ADIR1						3A

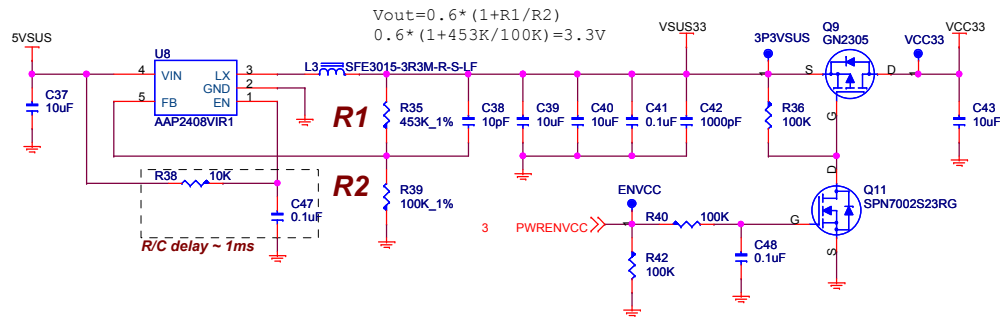


VIN->VCCBAT 3.3V 10uA

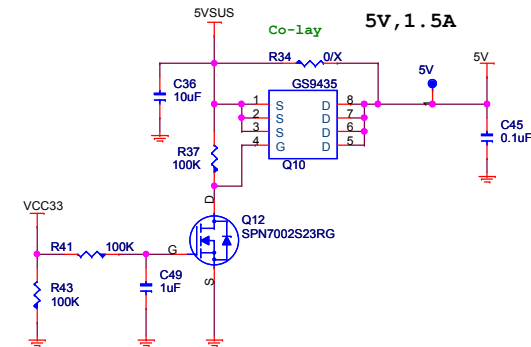
Recommend VIN Voltage: 6.0V Min~9.7V Max



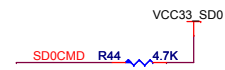
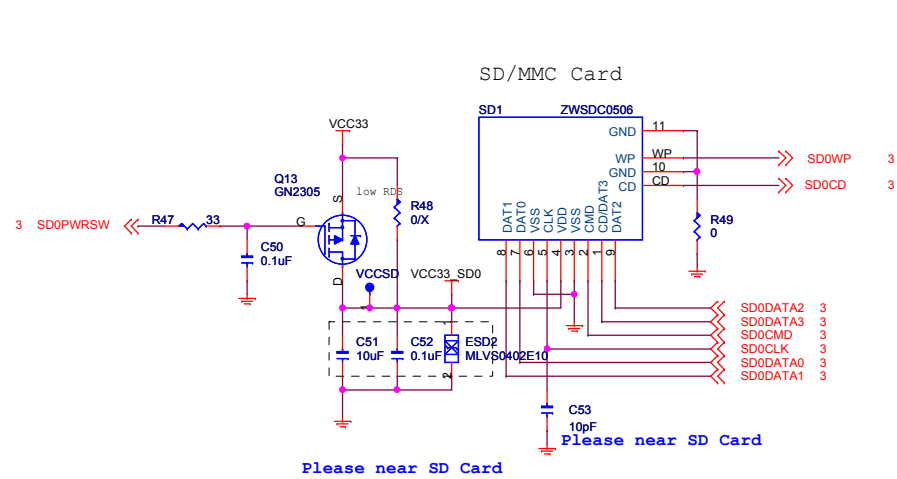
5VSUS->3.3V 800mA



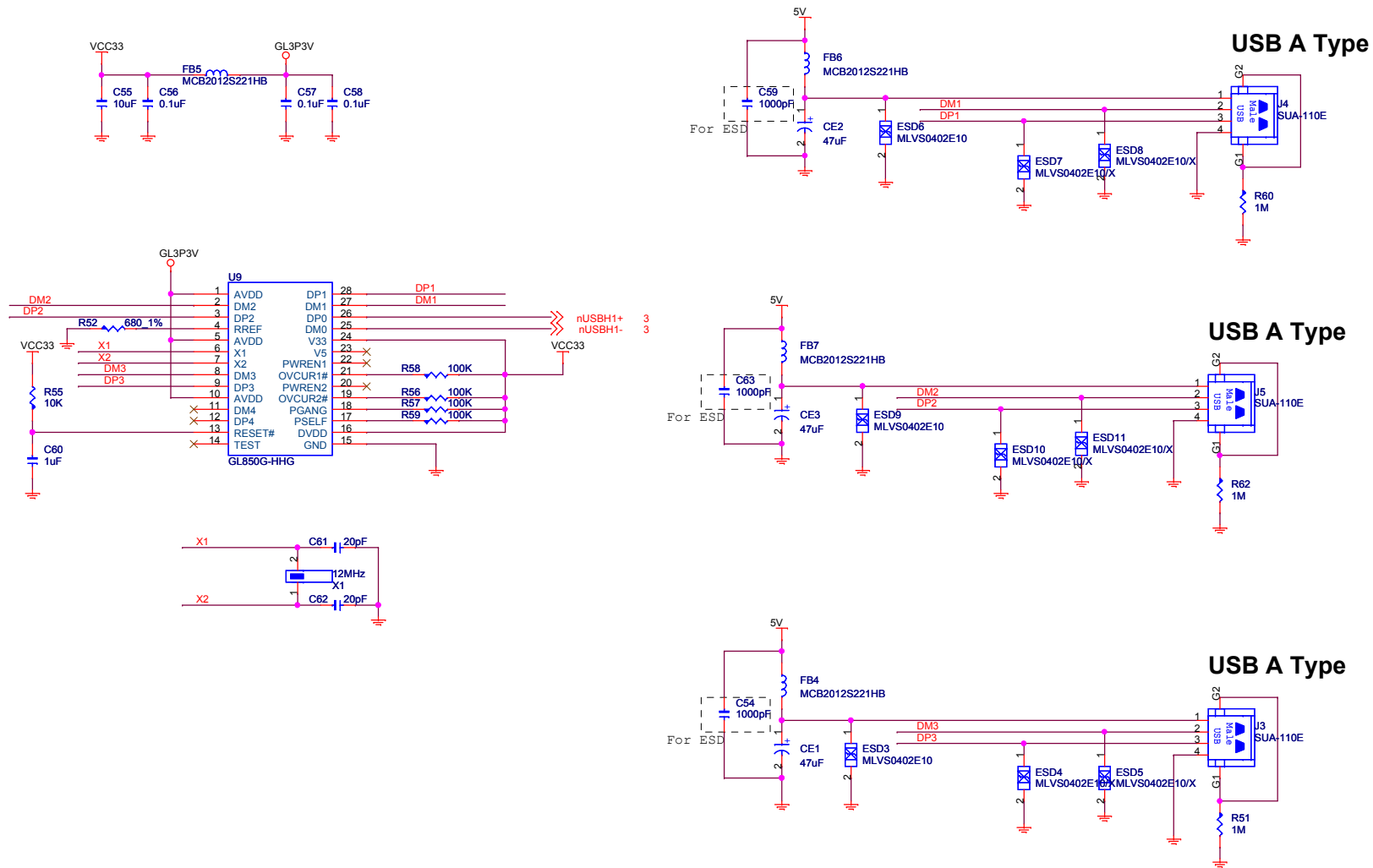
5VSUS->5V, 1.5A



SD Socket (SD/MMC only)

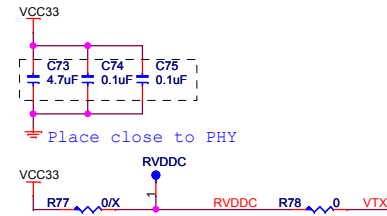
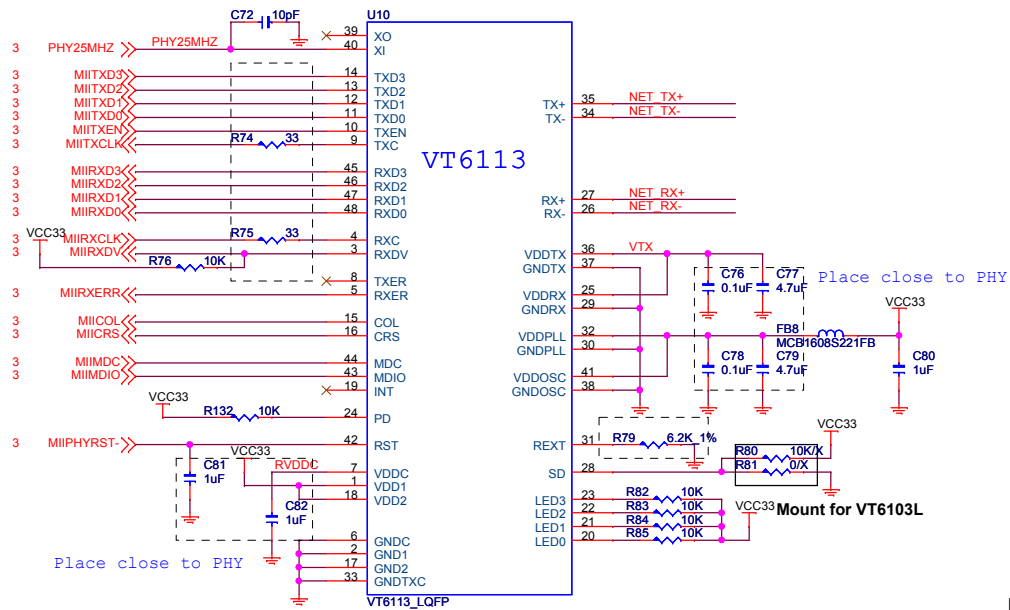


USB HUB

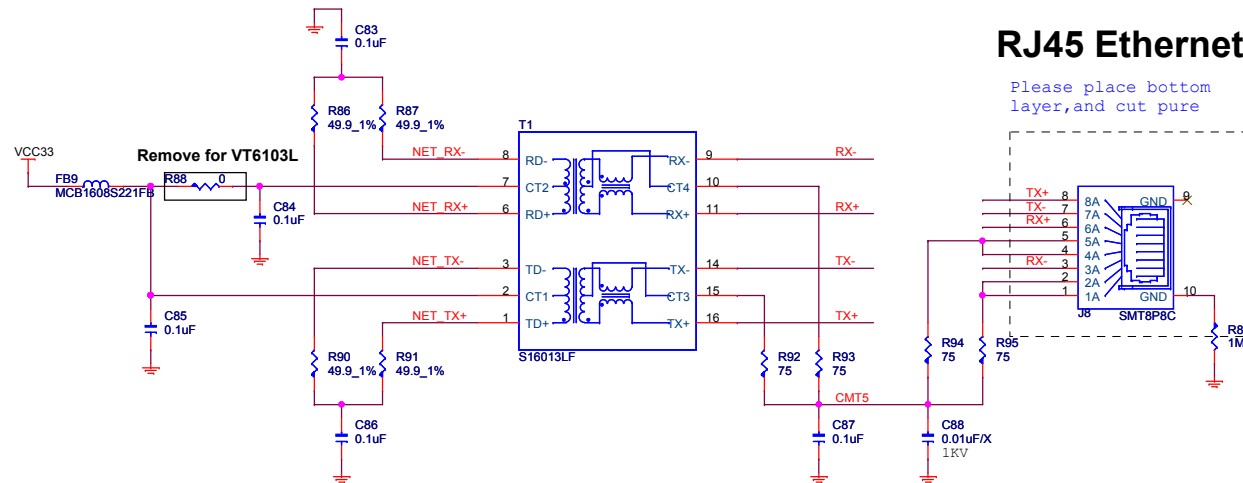




Ethernet PHY



		R79	R77	R81	R80
Default	VT6113	6.2K	Remove	Remove	Remove
---	VT6103X	6.49K	Mount	Remove	Mount

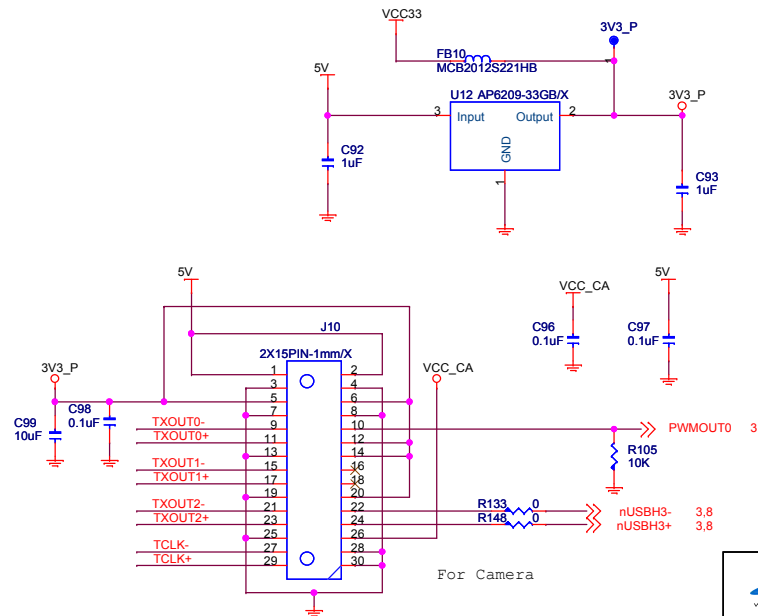
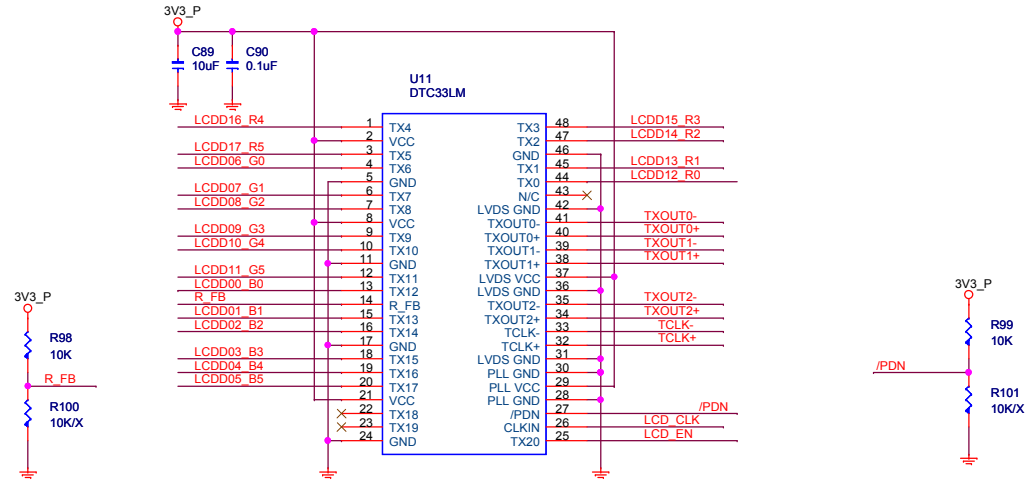
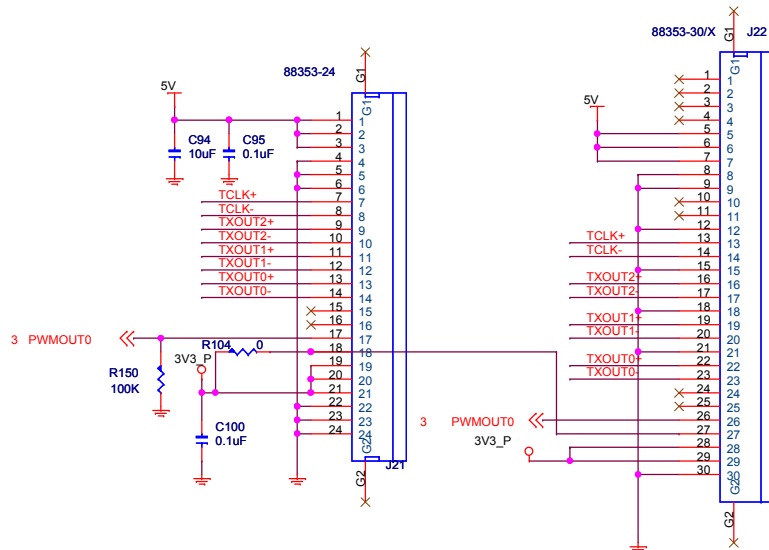
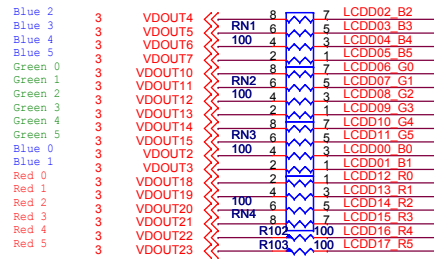
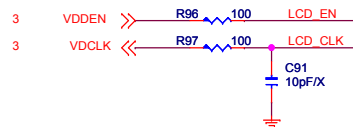


RJ45 Ethernet

Please place bottom
layer, and cut pure

LCD Panel

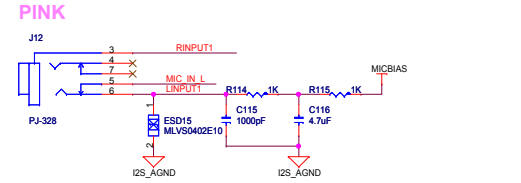
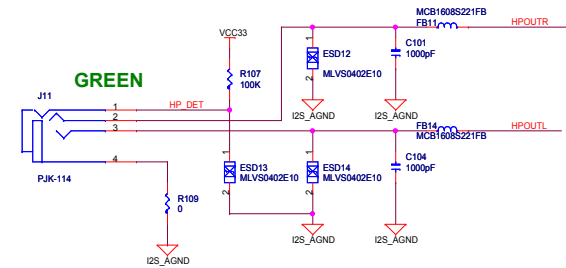
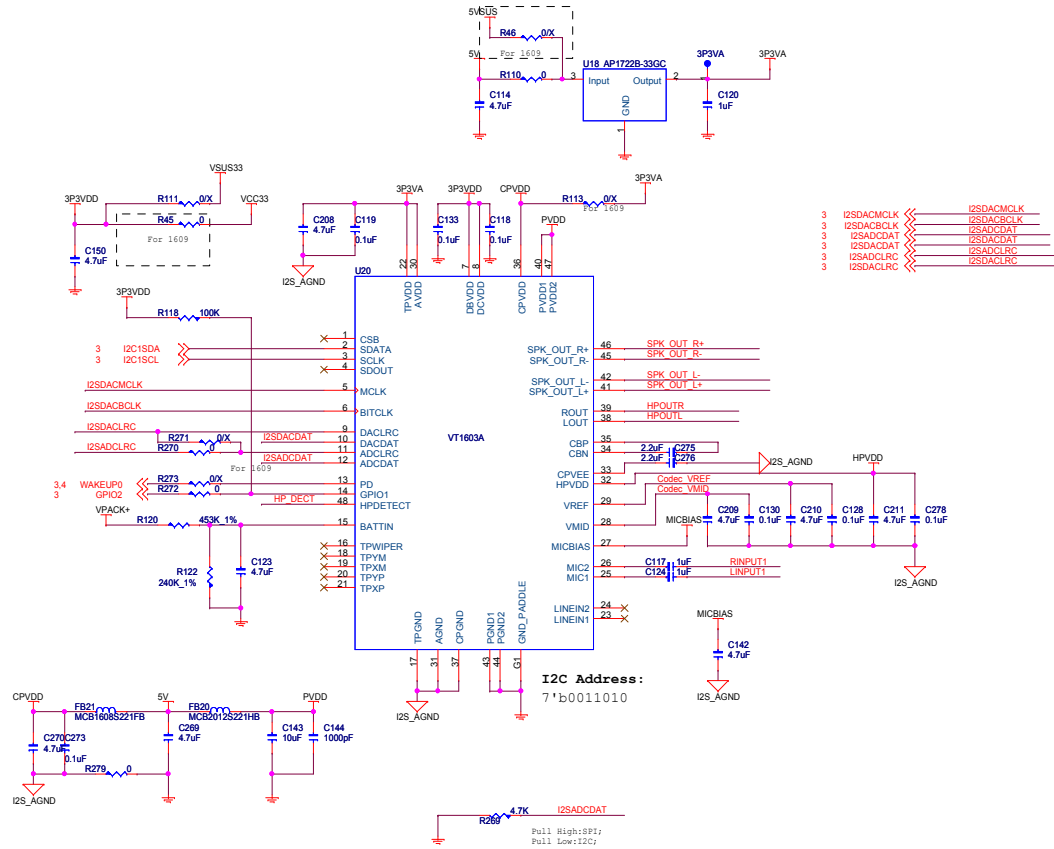
TTL to LVDS Transmitter



WonderMedia Technologies, Inc.

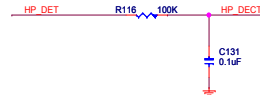
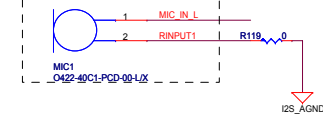
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LCD Panel			
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I2S CODEC

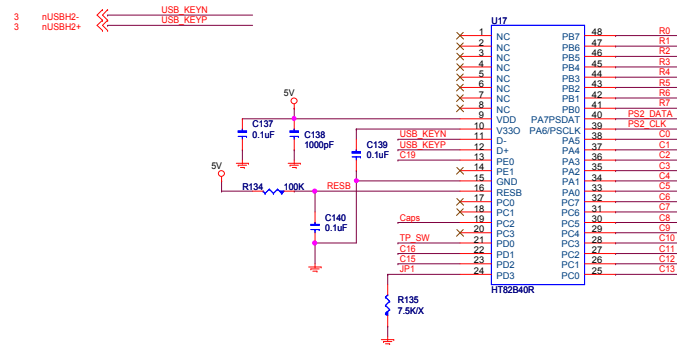


Onboard MIC

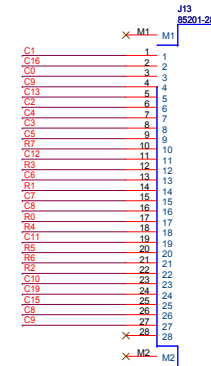
Res closed to MIC



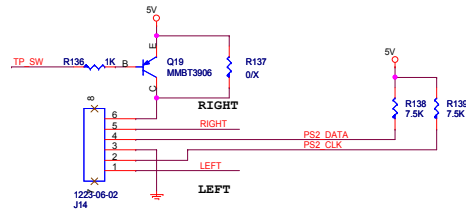
Keyboard and Touchpad



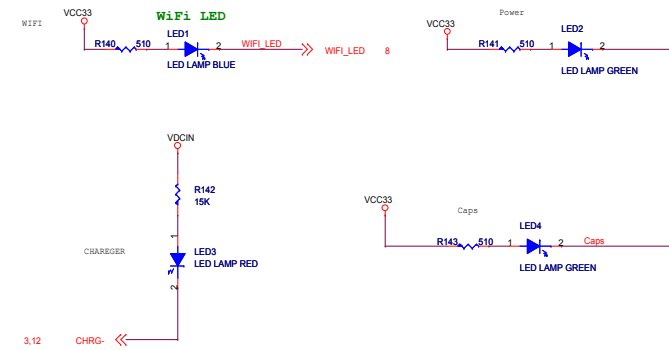
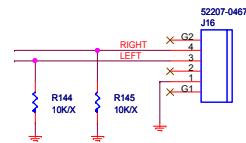
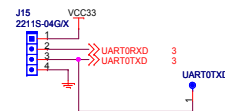
Keyboard

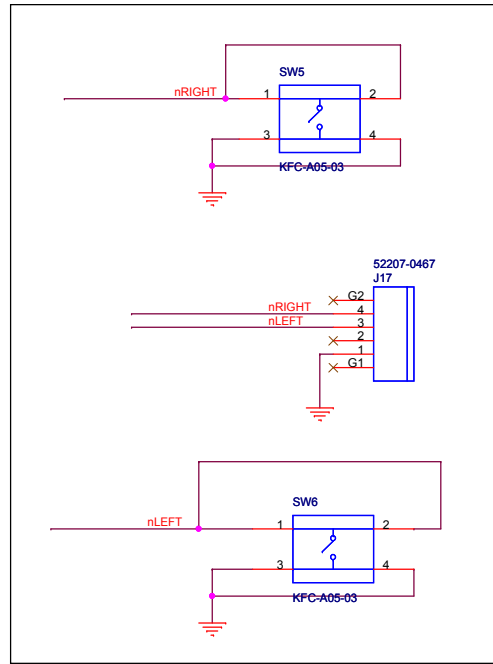
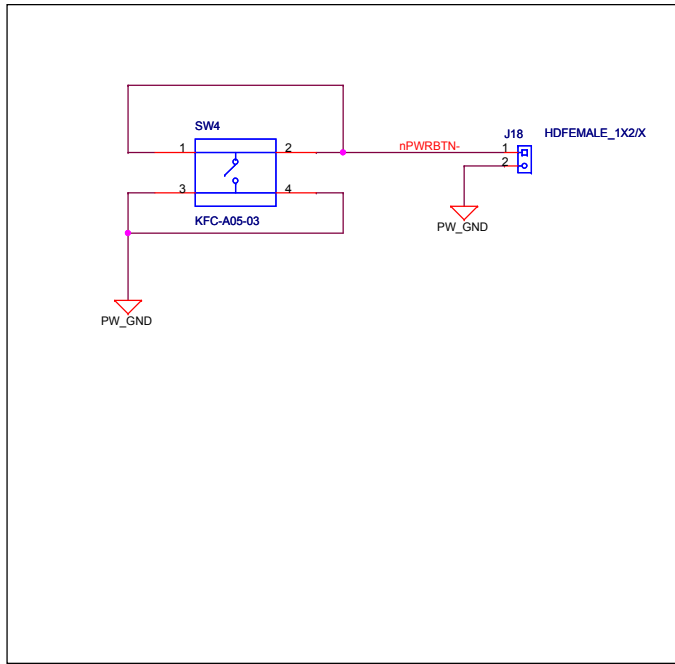


PS2 Touchpad



Reversed for debug





Version History

Version	Modify Content	Responsibility	Date
WMS8134A	Initial released.	Sunday Liang	2010/10/13
WMS8134C	Change wm8900 to VT1603A	Sunday Liang	2011/01/24

Power Sequence:

