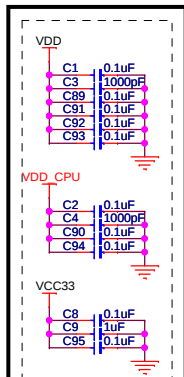


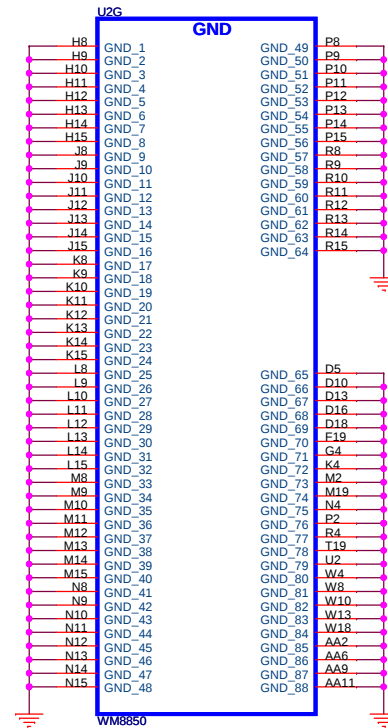
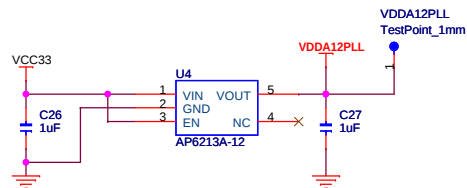
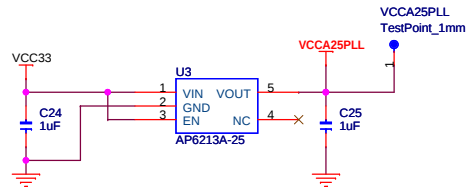
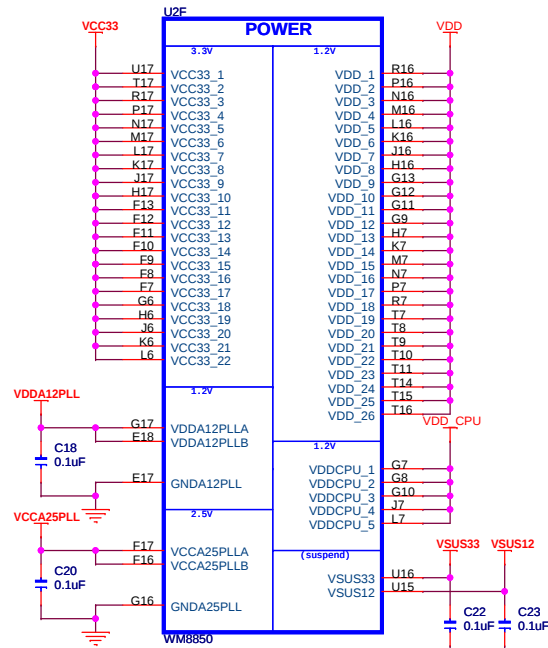
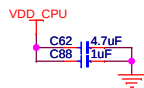
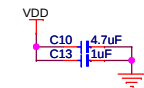
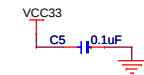
WM8850: Power / Ground

PART: F+G



Place WM8850 bottom side.

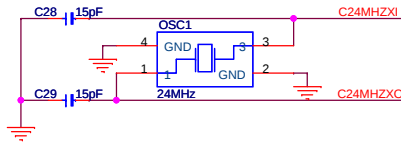
Do not change.



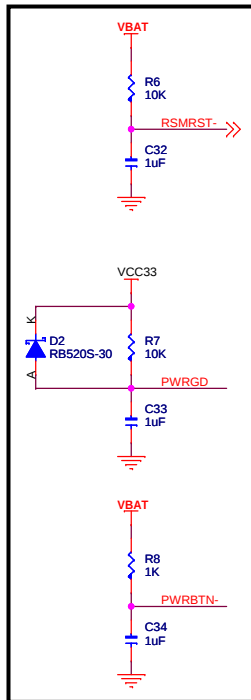
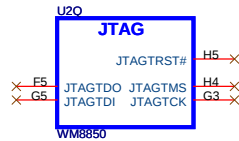
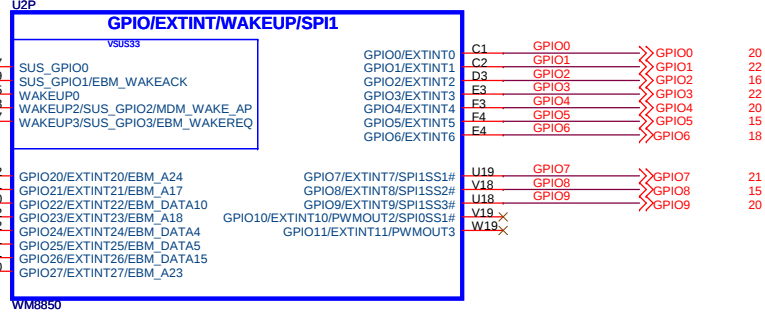
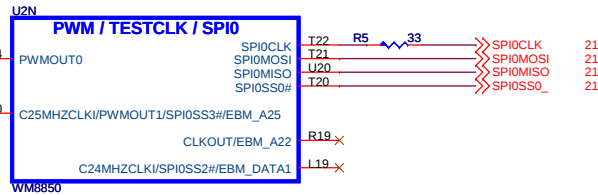
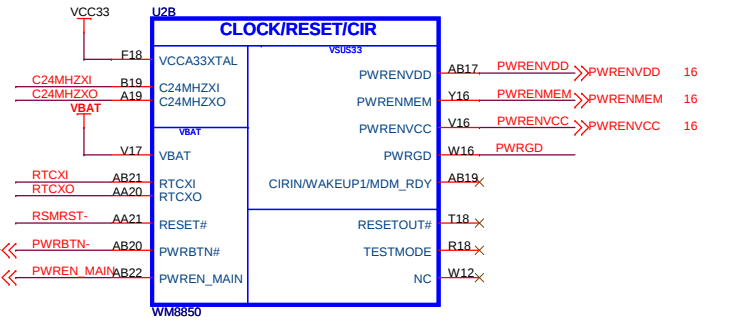
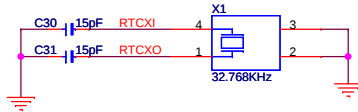
WM8850: PMC/SPI/GPIO/JTAG

PART:B+N+P+Q

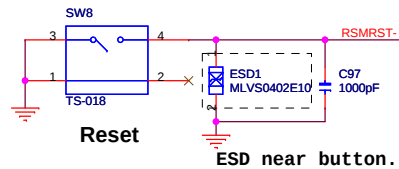
Main CLK:



RTC CLK:



Do not change.

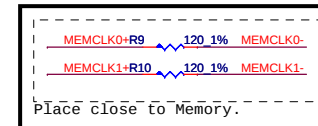


Reset

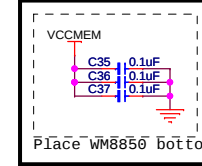
ESD near button.

WM8850: DDR3 SDRAM

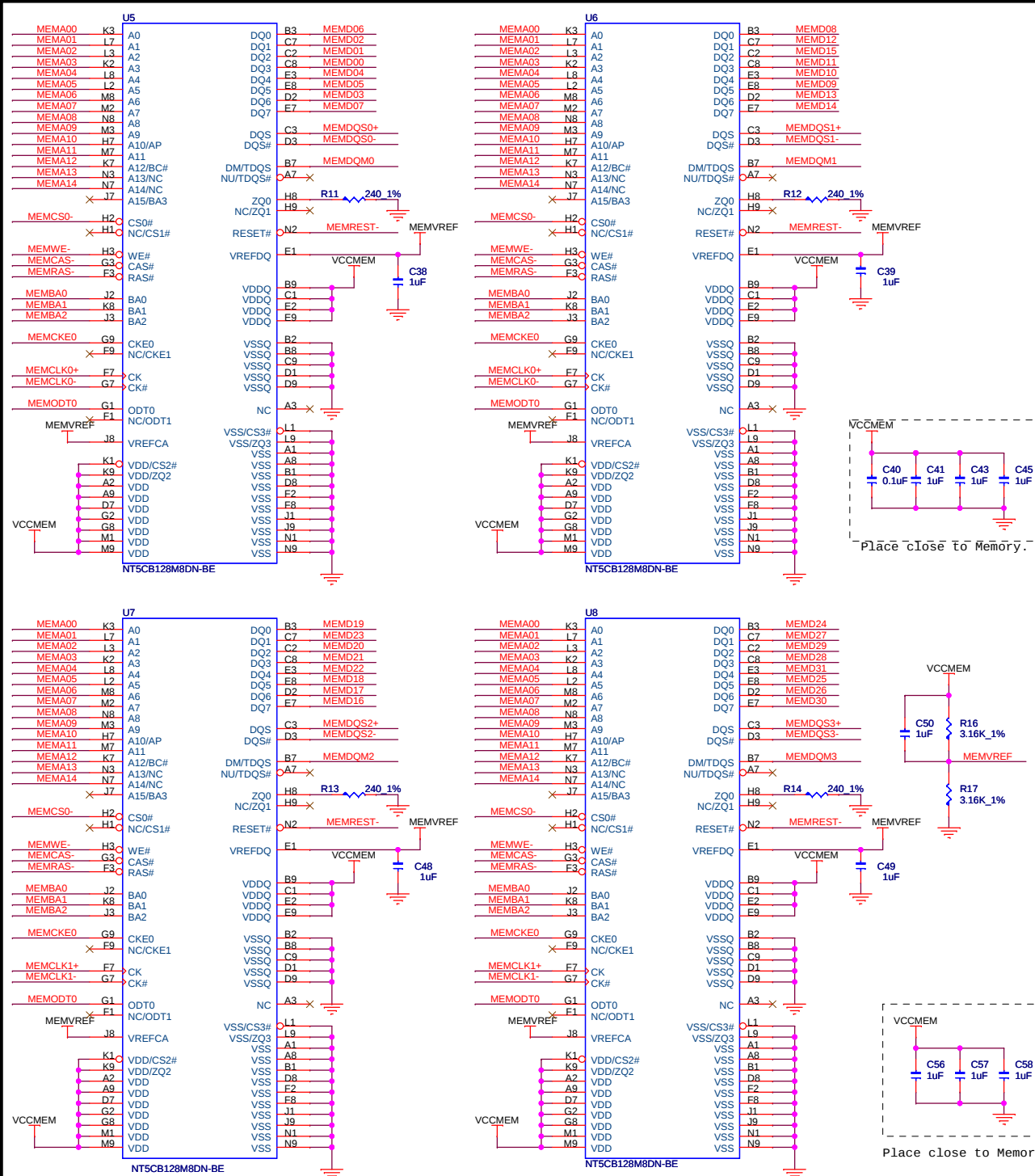
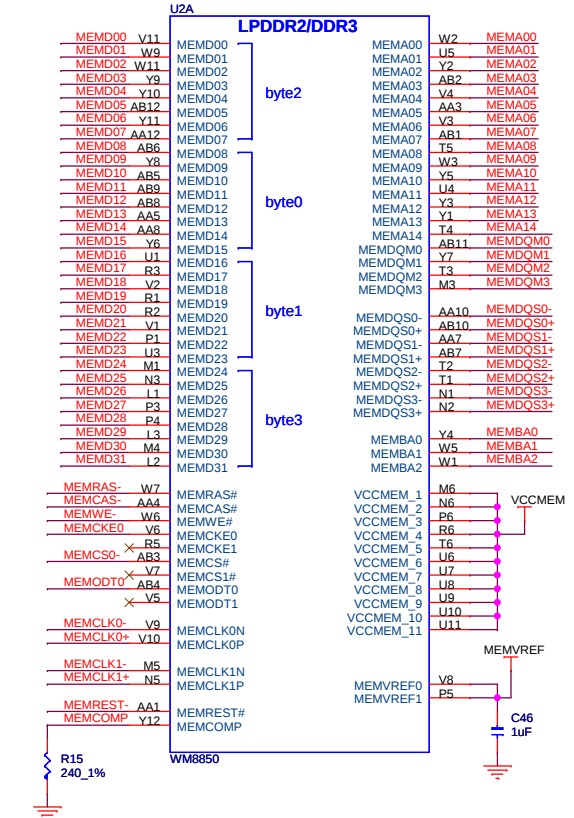
PART: A



Do not change.



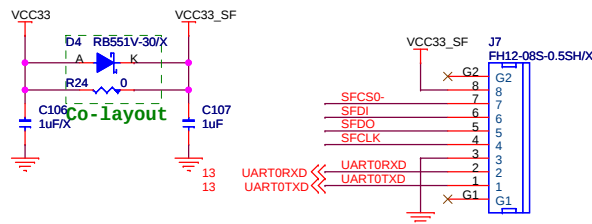
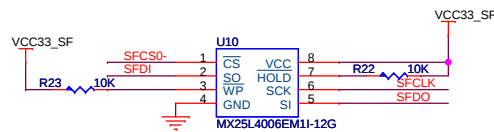
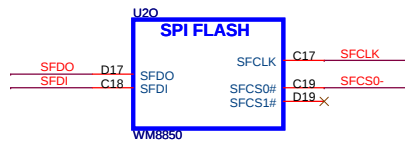
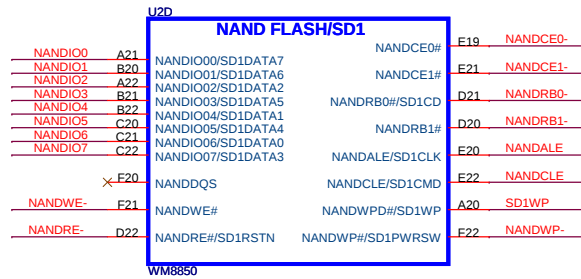
Do not change.



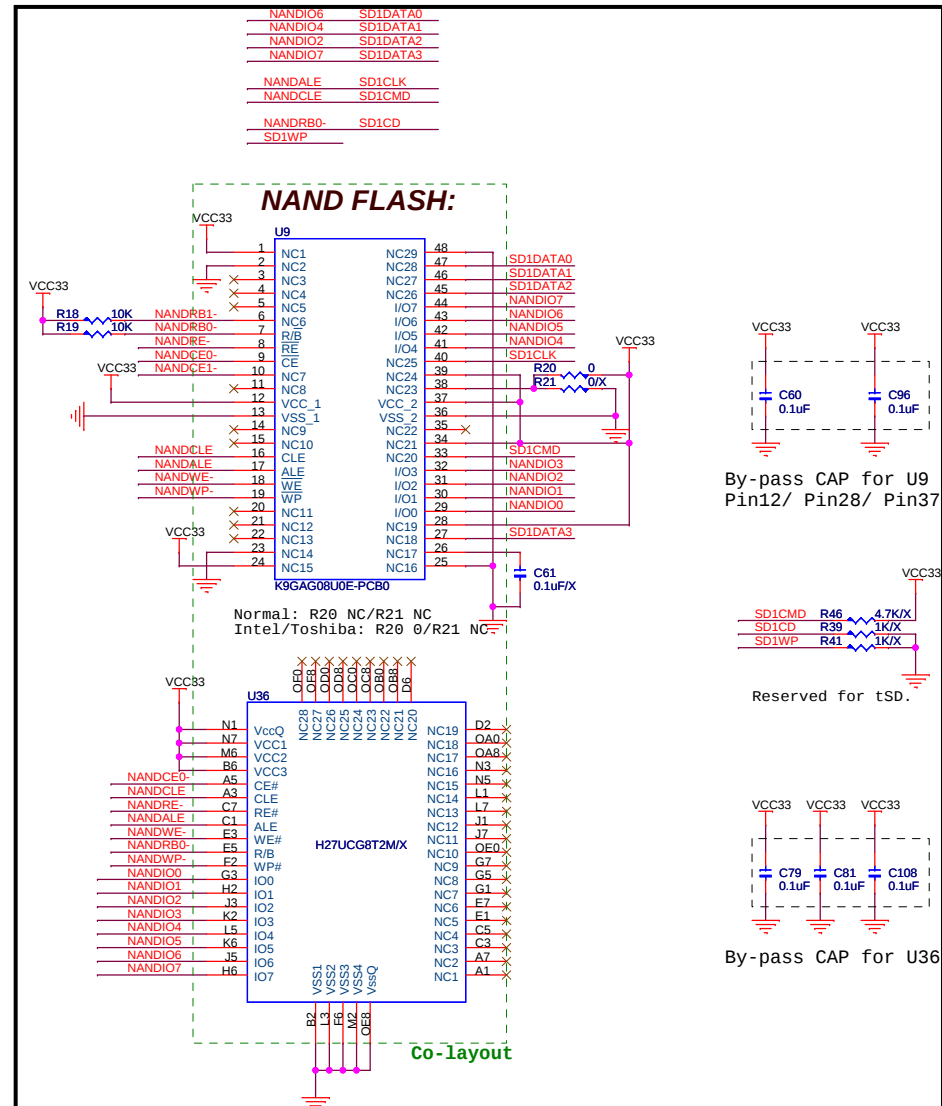
Do not change.

WM8850: NAND/SF

PART: D + O



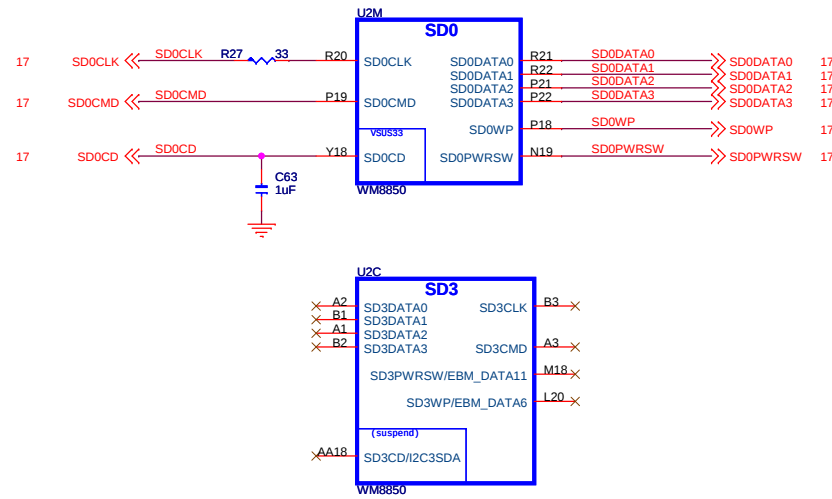
Debug Connector



Do not change.

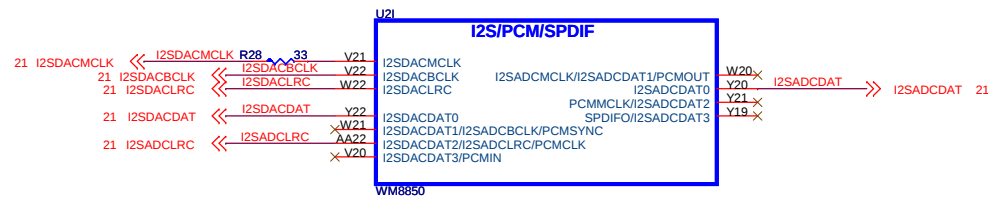
WM8850: SD/SDIO

PART: M



WM8850: I2S/SPDIF

PART: I



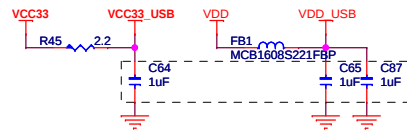
WonderMedia Technologies, Inc.

Title **WM8850: I2S/SPDIF**

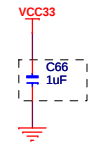
Size Custom Document Number **WMS8237B** Rev 1.0

Date: Wednesday, May 23, 2012 Sheet 10 of 24

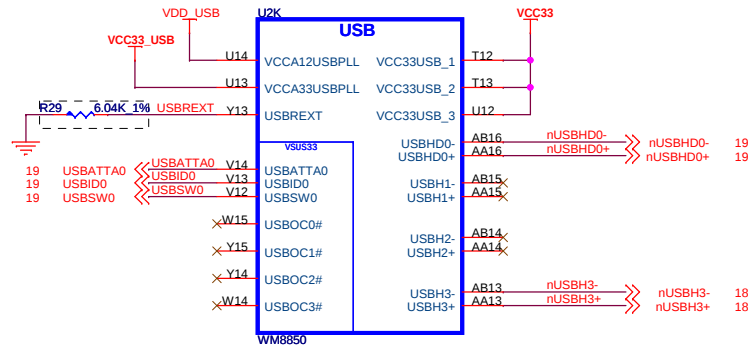
PART: K



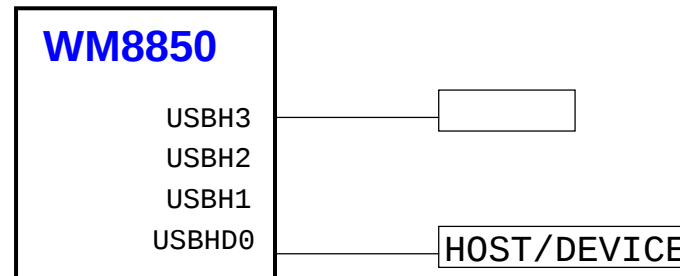
Place close to WM8850.



Place close to WM8850.



(USBH3) to
(USBH2) to
(USBH1) to
(USBHD0) to USB mini-AB connector.



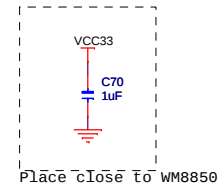
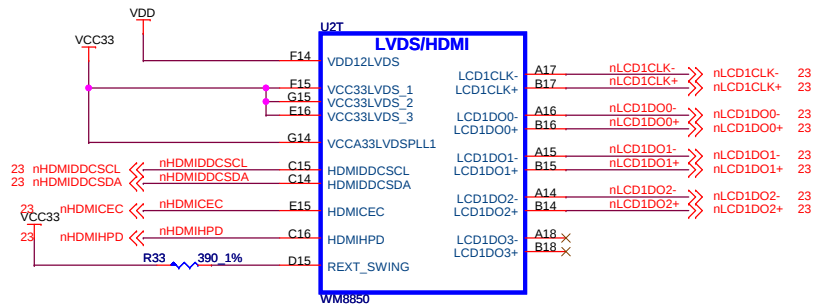
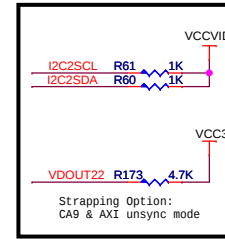
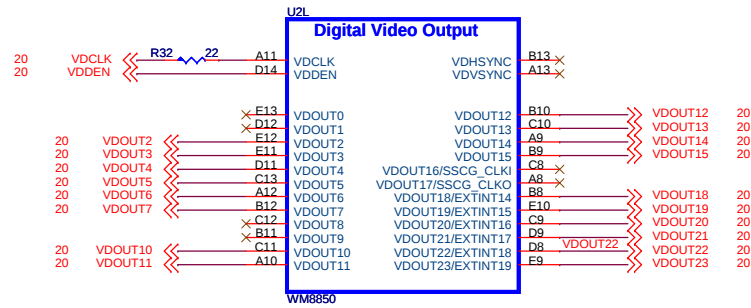
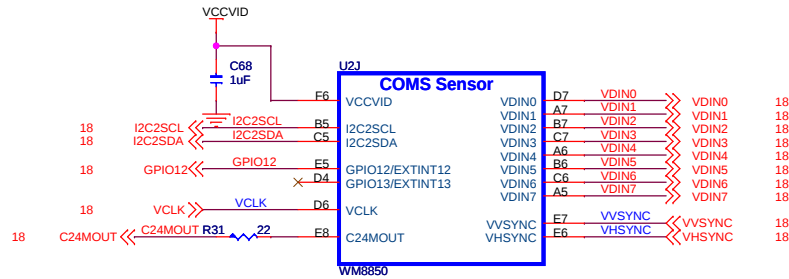
Wakeup signal (USBATTA) is asserted from external USB-Host only.
If WM8850 at USB-Host mode, should ignore USBATTA pin



WonderMedia Technologies, Inc.

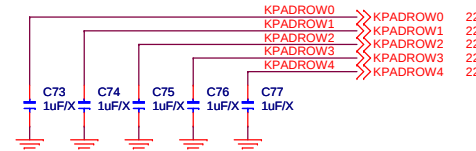
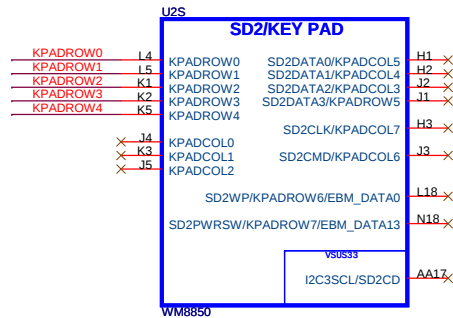
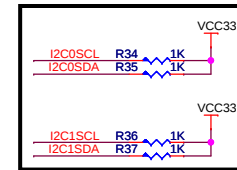
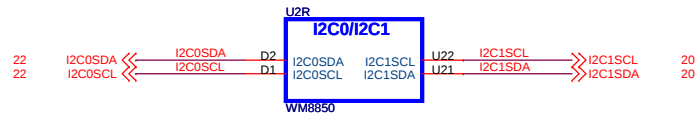
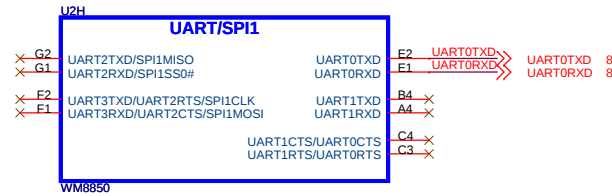
WM8850: VID/VDO/HDMI

PART: C + J + L + T



WM8850: UART/I2C/KEYPAD

PART: H + R + S

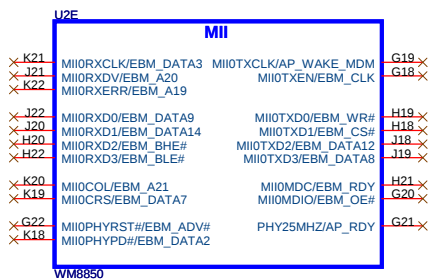


WonderMedia Technologies, Inc.

Title		WM8850: UART/I2C/KEYPAD
Size	Document Number	Rev
Custom	WMS8237B	1.0
Date:	Friday, May 25, 2012	Sheet 13 of 24

WM8850: MII

PART: E



WonderMedia Technologies, Inc.

Title **WM8850: MII**

Size Custom Document Number **WMS8237B**

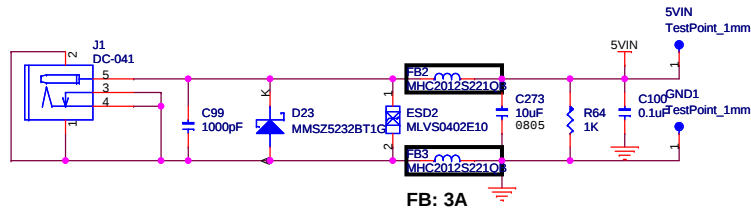
Rev 1.0

Date: Wednesday, May 23, 2012 Sheet 14 of 24

DC-IN and Battery

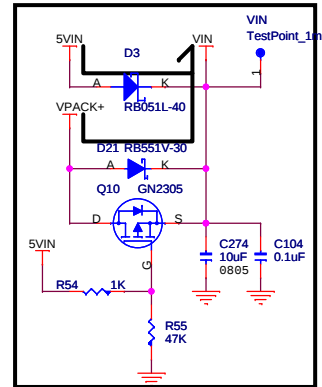
5V DC Input 2A

DC Voltage:(5.5V Max)
5V Full Loading



FB: 3A

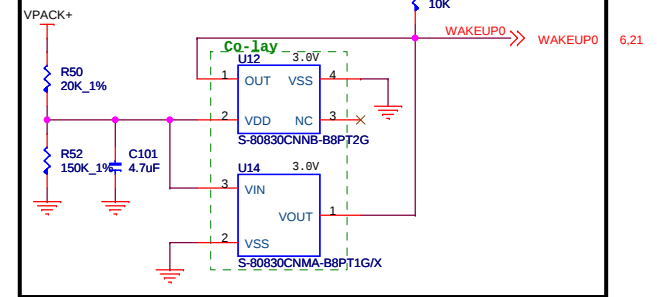
DC Switch



Do not change.

Battery Low Detect:

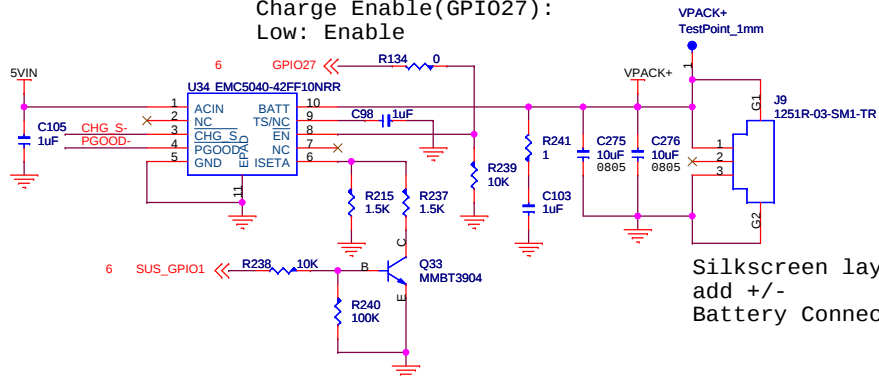
3.4V



Do not change.

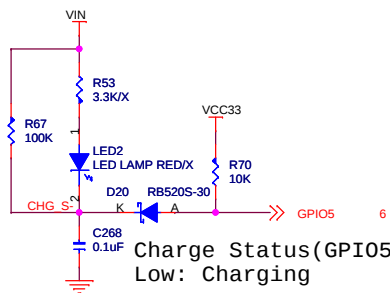
Battery charger 1-Cell

Charge Enable(GPI027):
Low: Enable

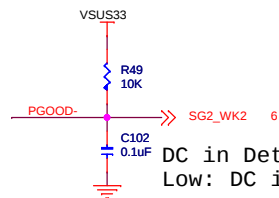


Silkscreen layer
add +/-
Battery Connector

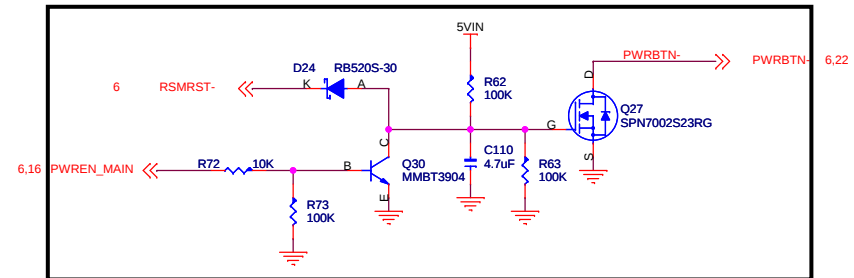
Charge Current(SUS_GPI01):
Low: ~0.5A
High: ~1.0A



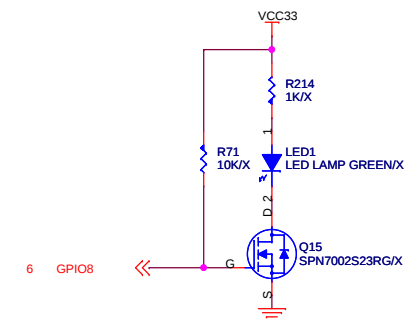
Charge Status(GPI05):
Low: Charging



DC in Detect(SG2_WK2):
Low: DC in

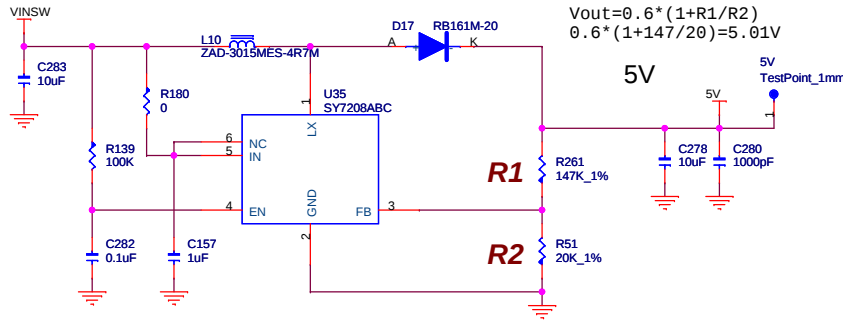


Do not change.

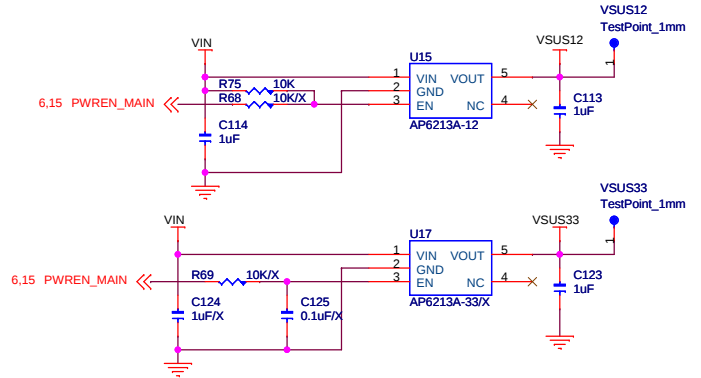


Voltage Regulators

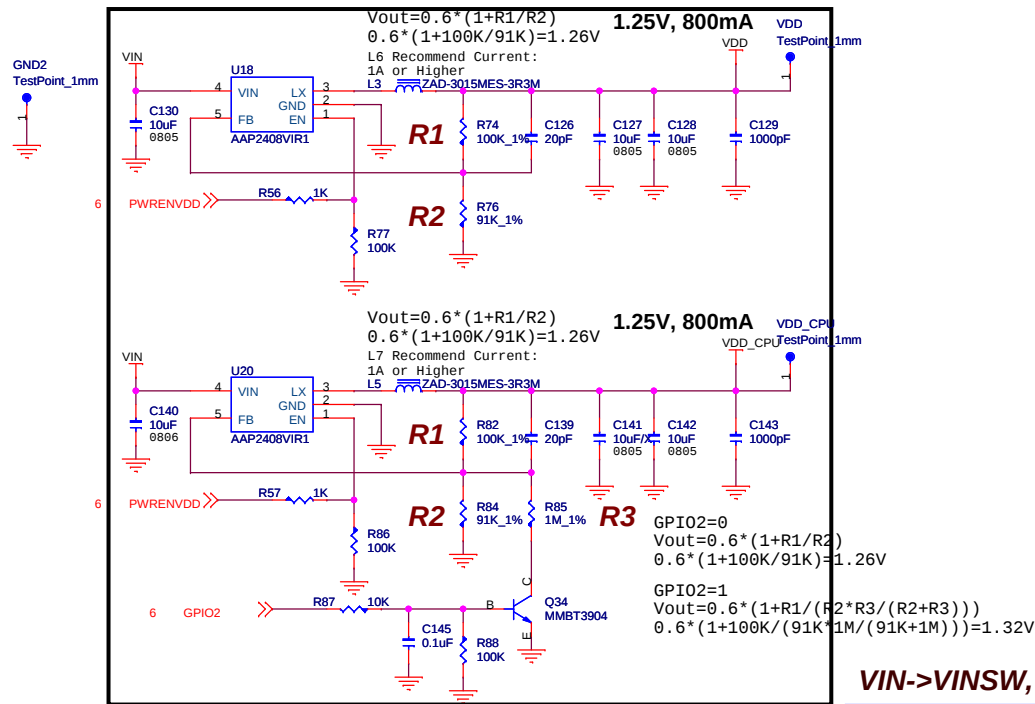
VINSW->5V, 1A



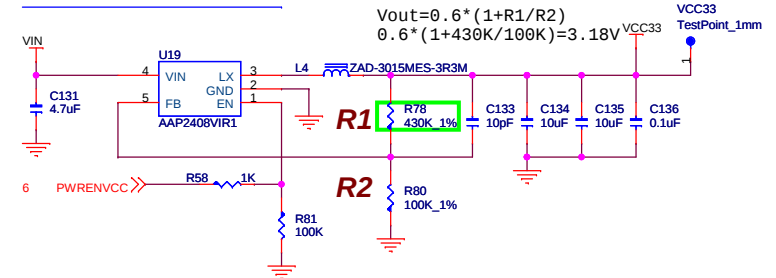
VIN->Suspend Power



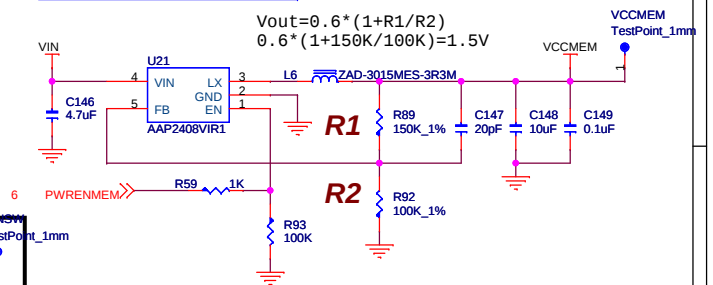
VIN->1.25V, 800mA x 2



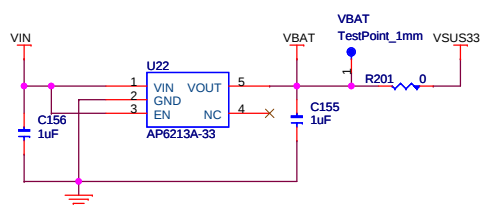
VIN->3.3V 800mA



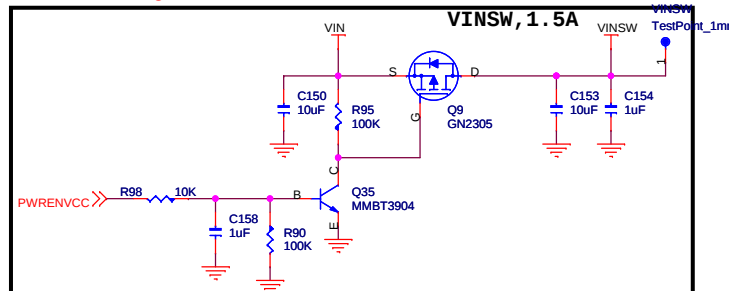
VIN->1.5V, 800mA



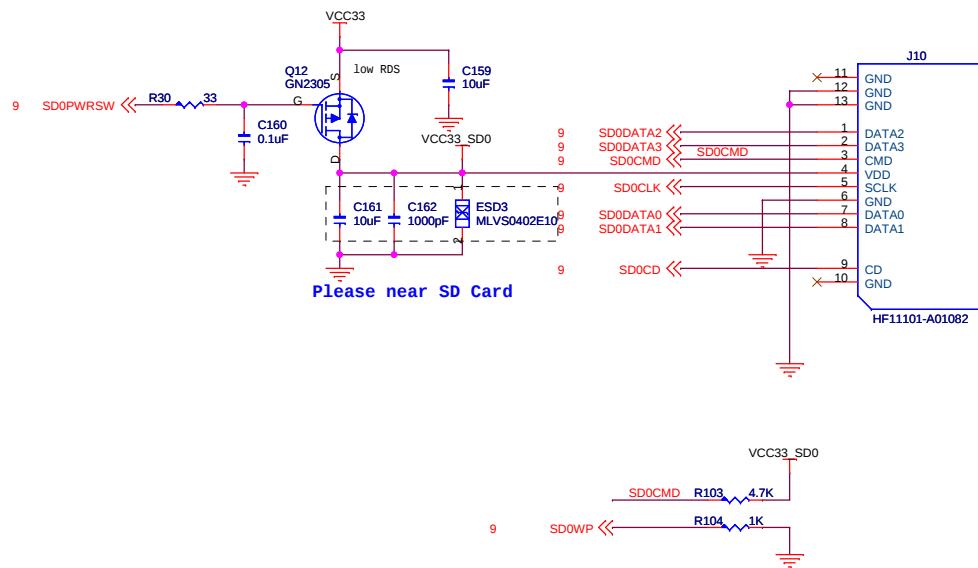
VIN->VCCBAT 3.3V ?uA



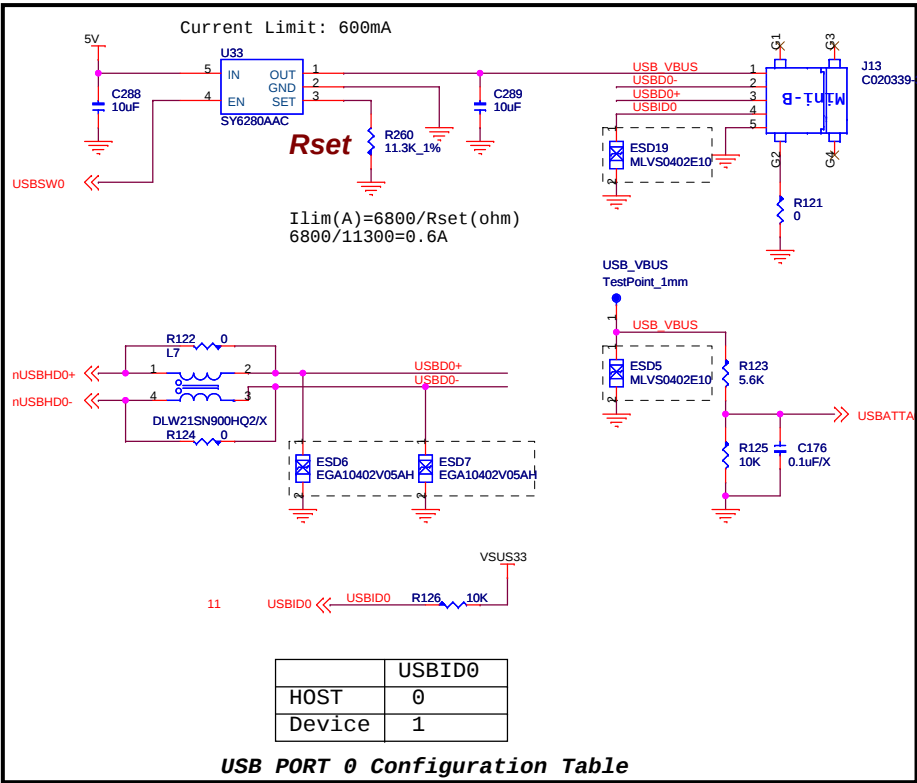
VIN->VINSW, 1A



MicroSD Card



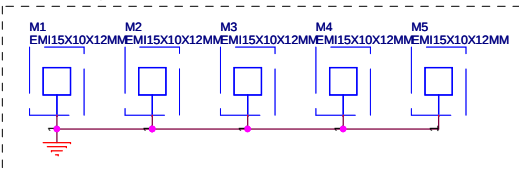
USB Host/Device



Do not change.

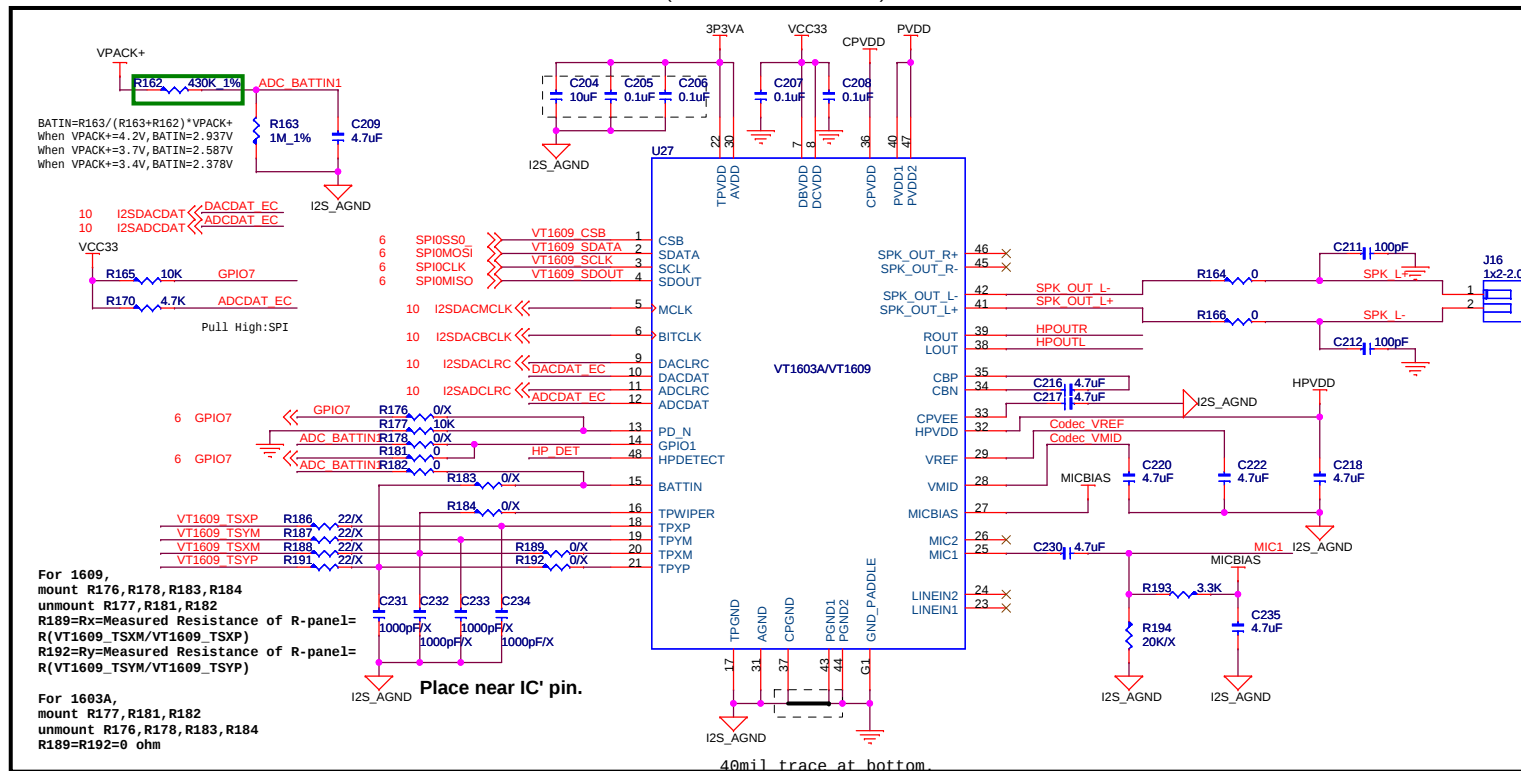
Notice: ESD components place near USB connector.

For EMI, Place BOTTOM side

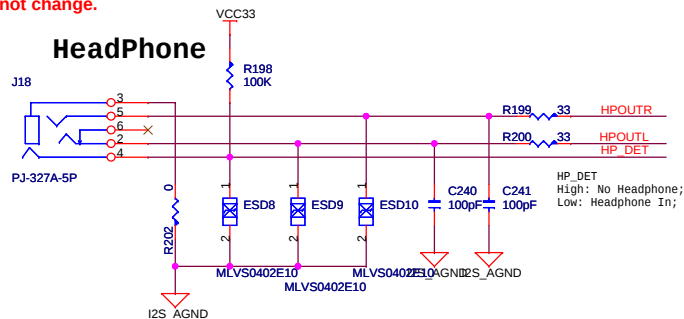


I2S CODEC

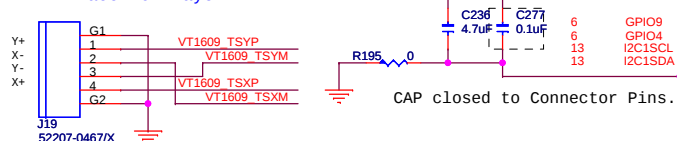
(Default: VT1603A/IF:SPI)



Do not change.

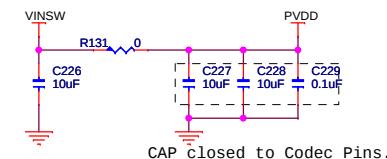
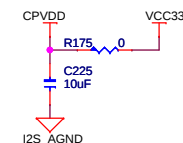
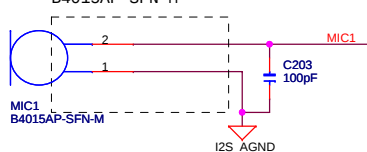


Bottom Contact
Place TOP Layer

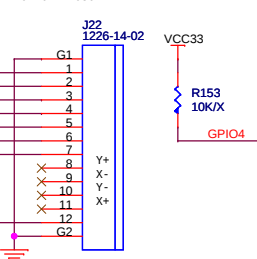


Onboard MIC

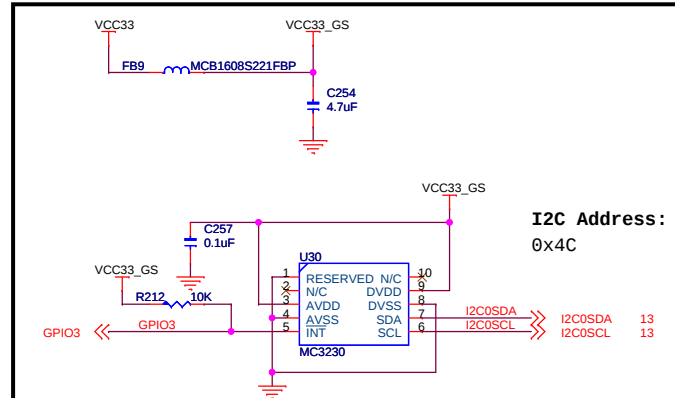
Res closed to MIC
B4015AP-SFN-M



FOR CAP TOUCH PANEL

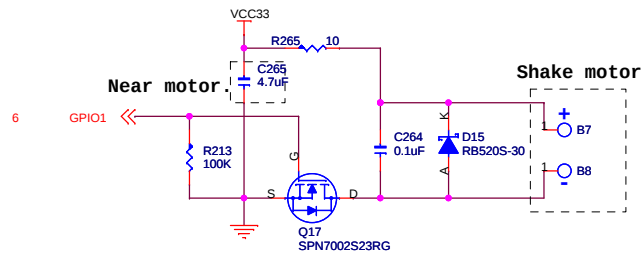


G-Sensor & Shake

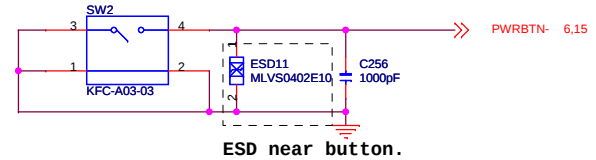


I2C Address: 0x4C

摆放时务必注意G-Sensodr在背对屏幕那面，第一PIN朝屏幕左上角
Do not change.

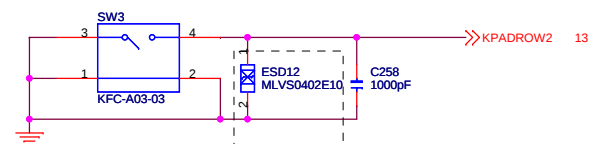


Power Button

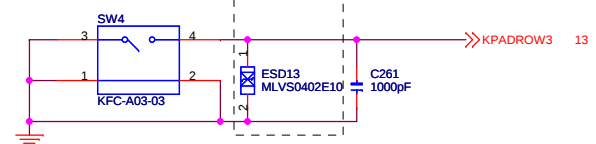


ESD near button.

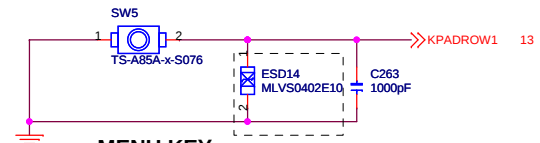
Volume +



Volume -

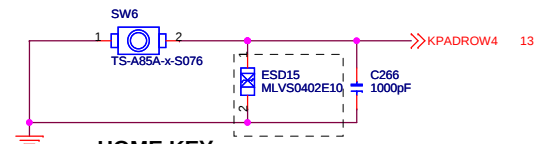


ESD near button.



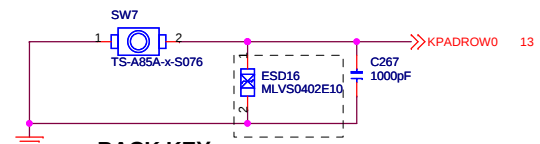
MENU KEY

ESD near button.



HOME KEY

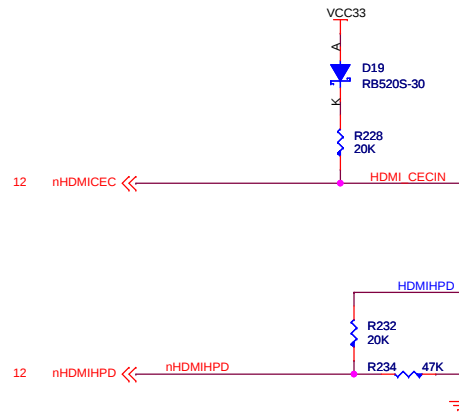
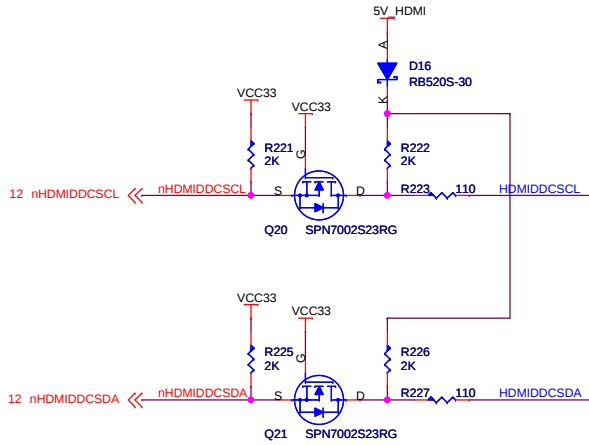
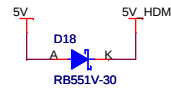
ESD near button.



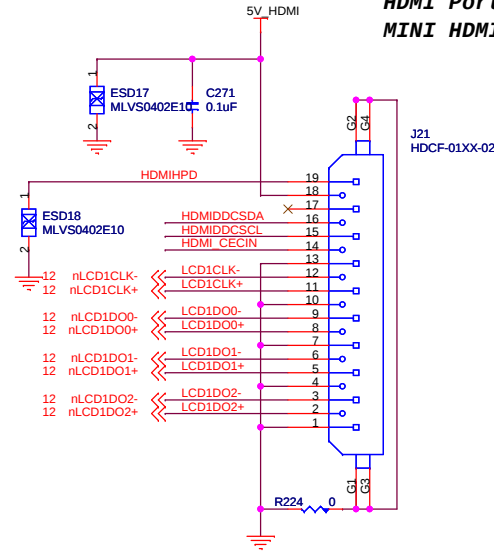
BACK KEY

ESD near button.

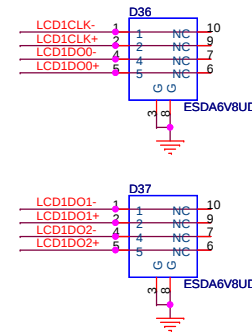
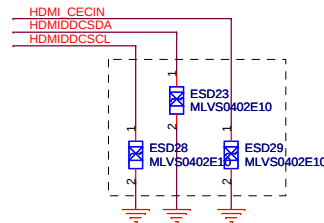
HDMI



**HDMI Port
MINI HDMI Port TYPE C**



Notice: ESD components place near HDMI connector.



Version History & Power Sequence

Version	Modify Content	Responsibility	Date
WMS8237A	Initial released.	Ben Huang	2012/05/09
WMS8237B		Ben Huang	2012/05/25

