

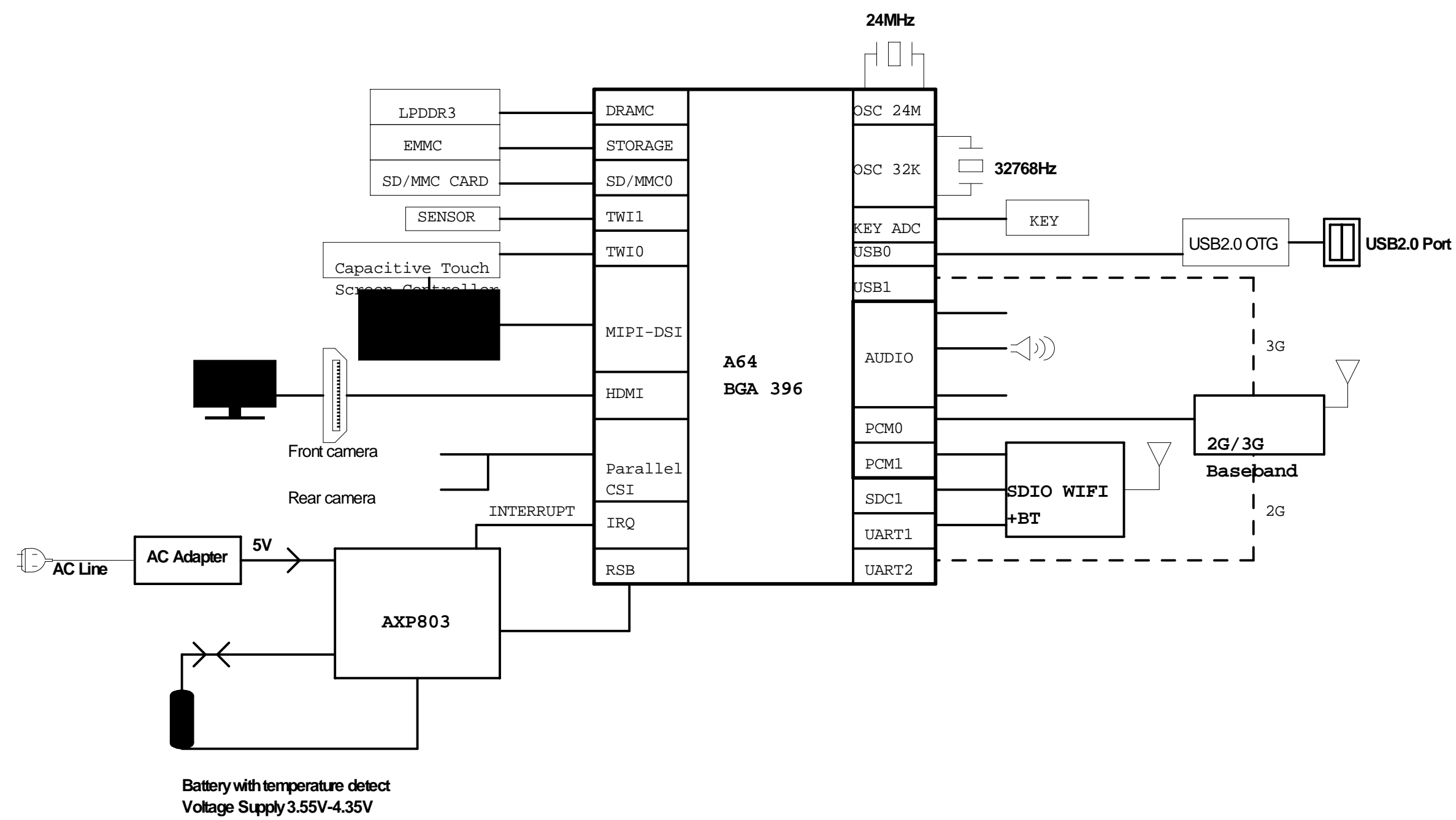
# VERSION HISTORY

## Index

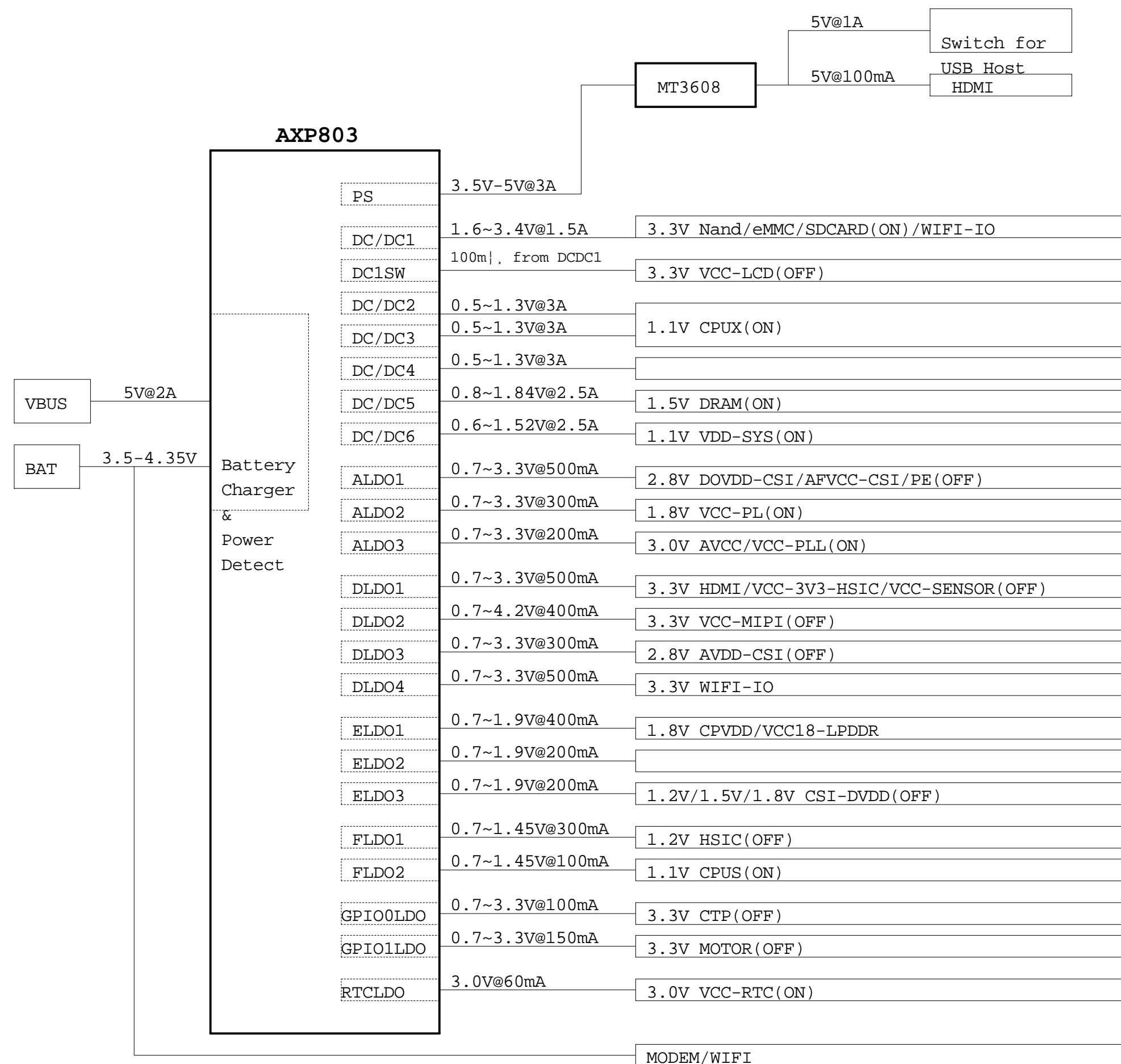
- 01 VERSION HISTORY
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- 03 POWER TREE
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Revision	Description	Date	Drawn	Checked	Approved
Ver 1.1	Releas version	2019-10-30	HE		

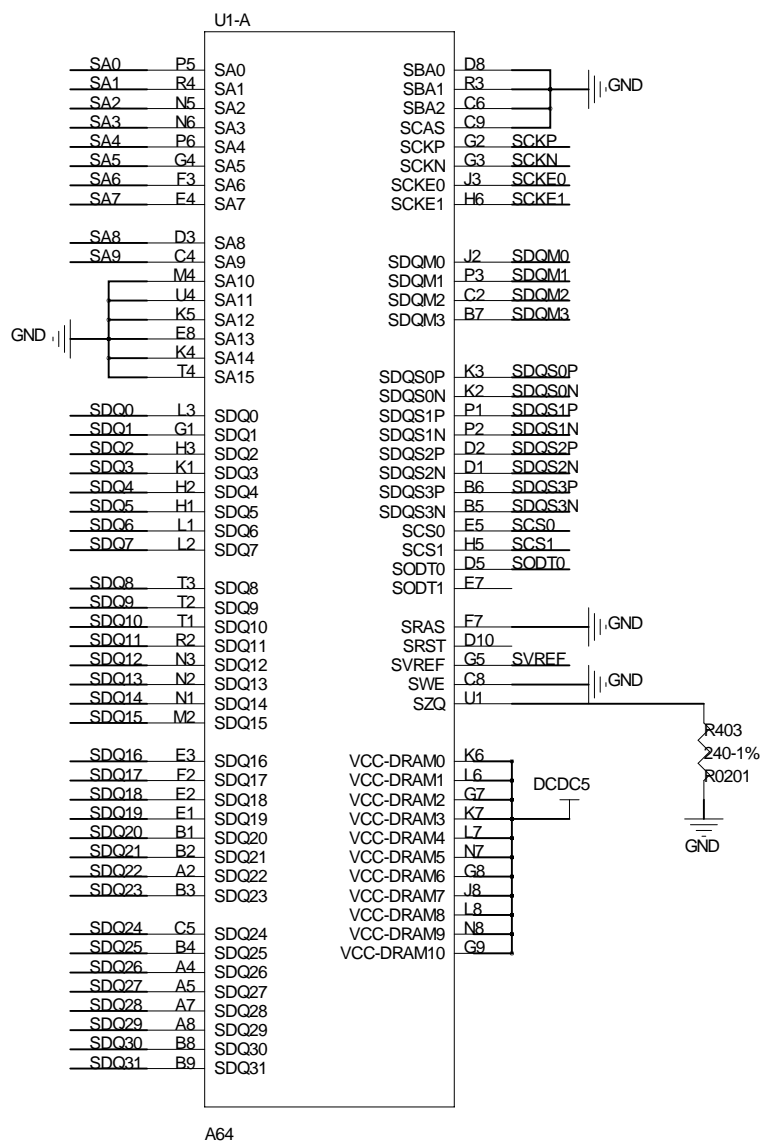
# BLOCK DIAGRAM



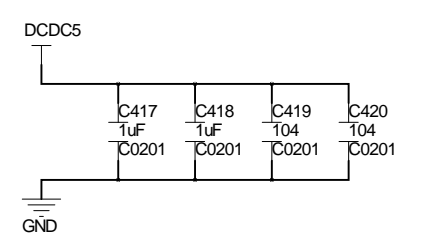
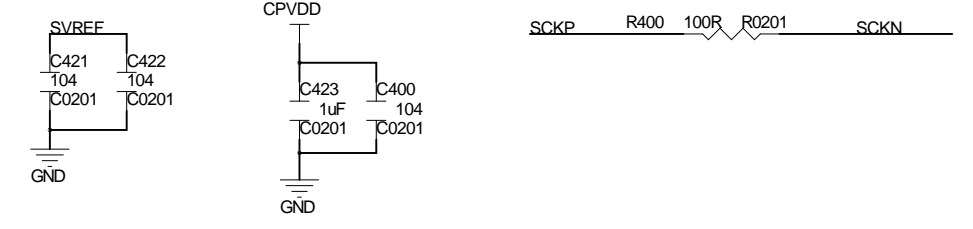
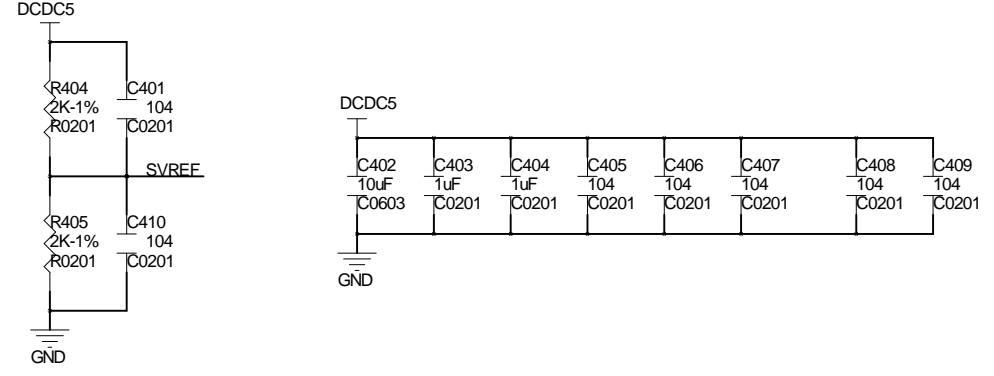
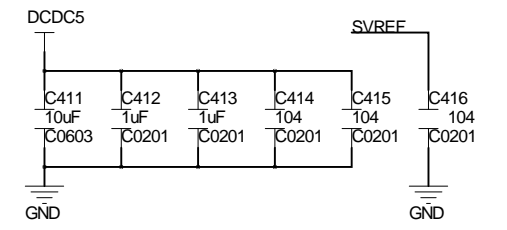
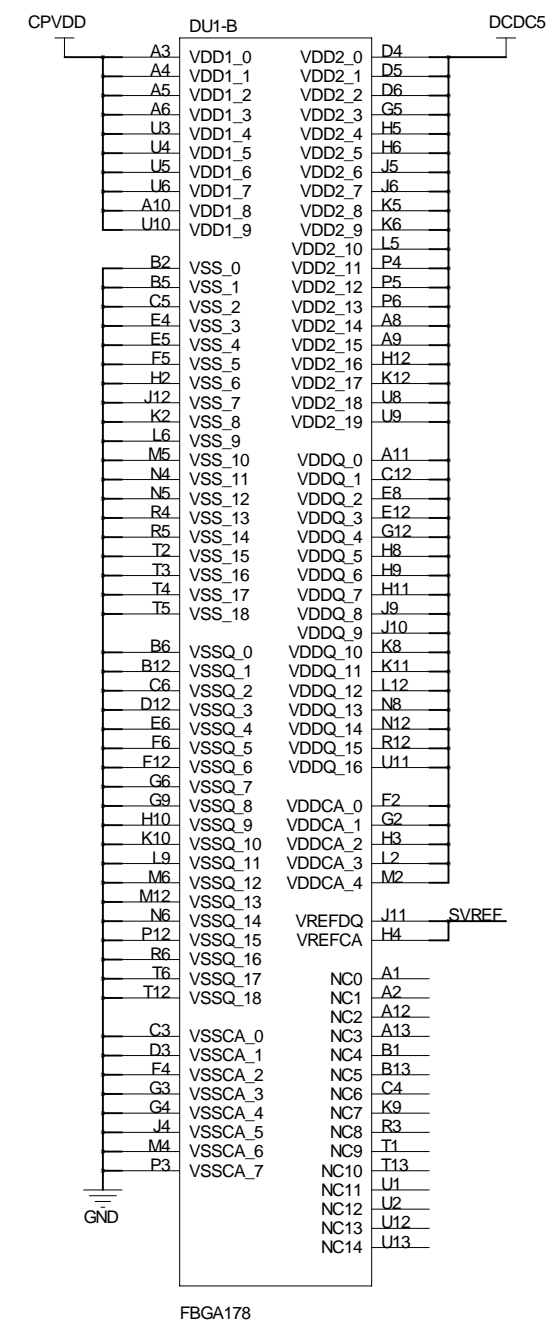
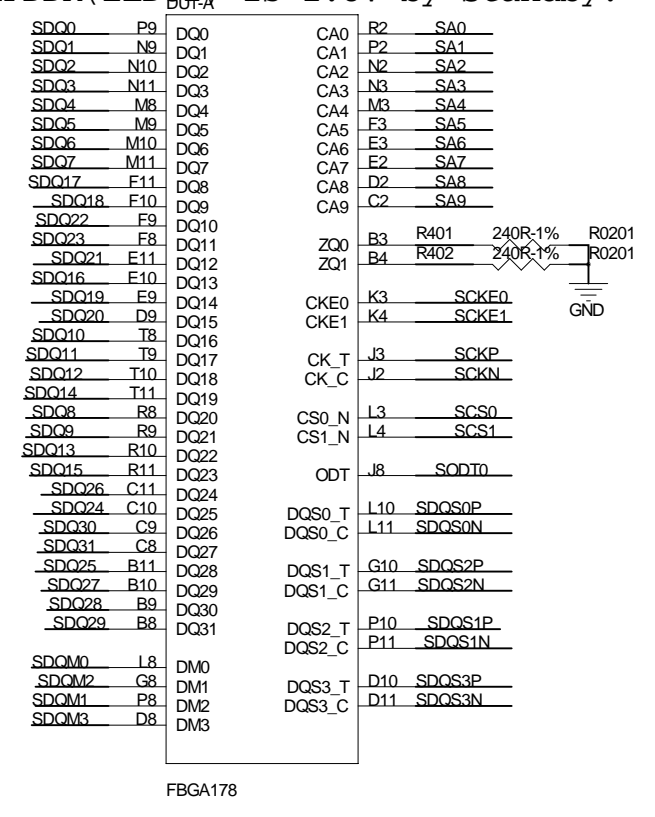
# POWER TREE



# LPDDR3

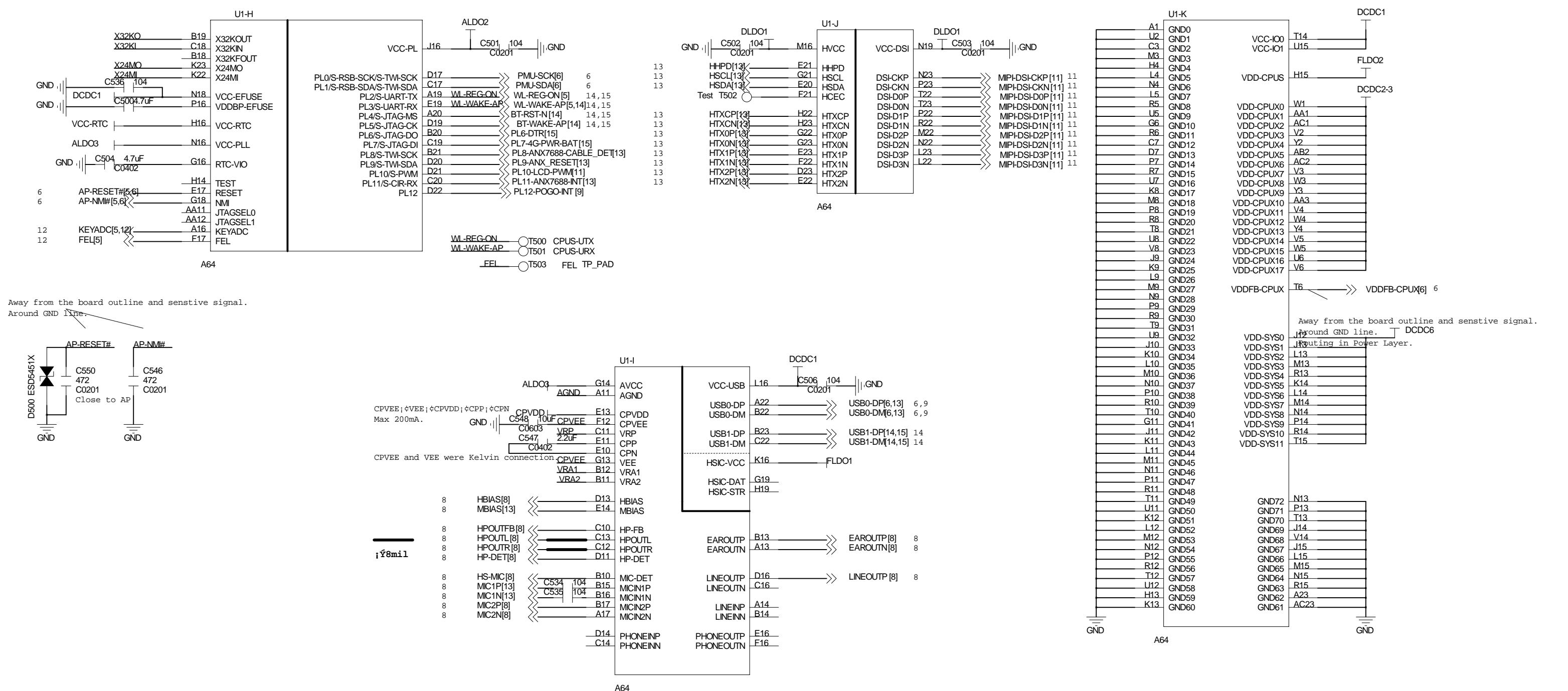


If use LPDDR3,  
mount VDD18-LPDDR(ELDQ1) is 1.8V by Standby.

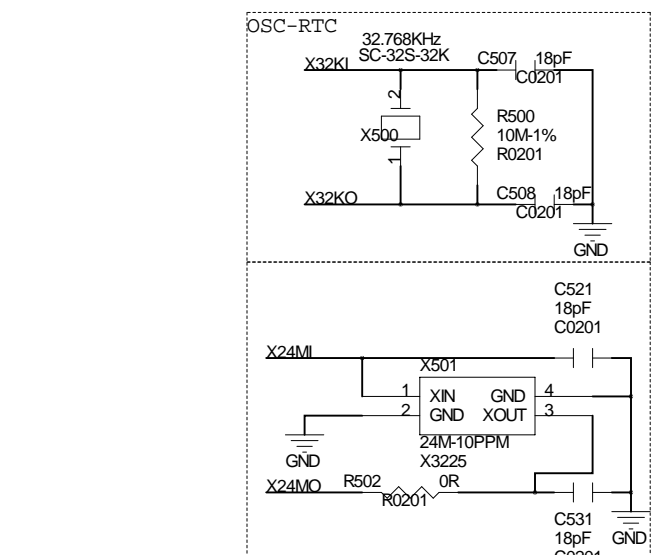
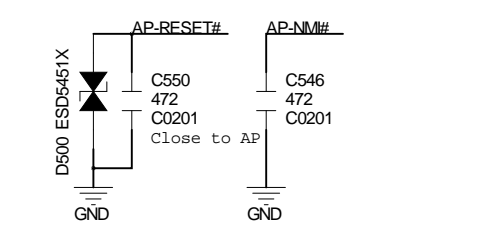


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# CPU



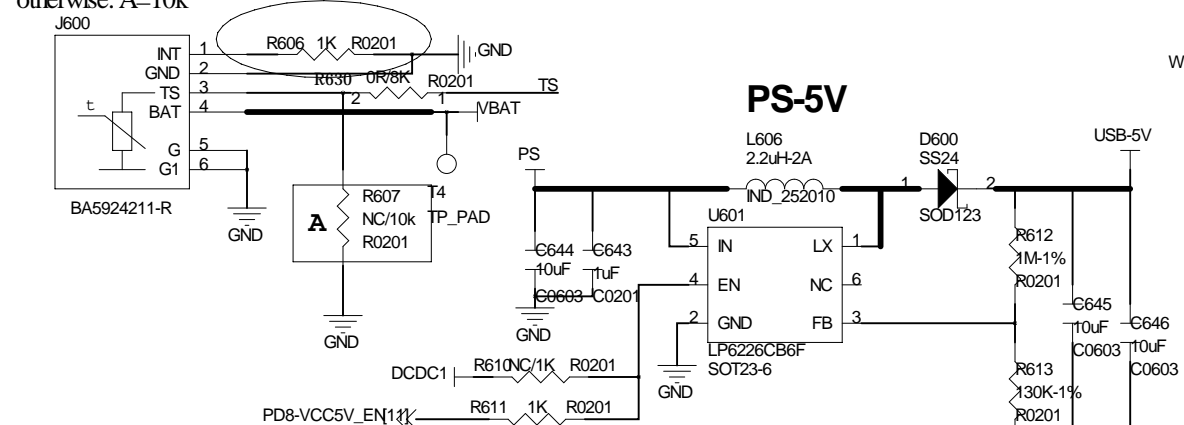
Away from the board outline and sensitive signal. Around GND line.



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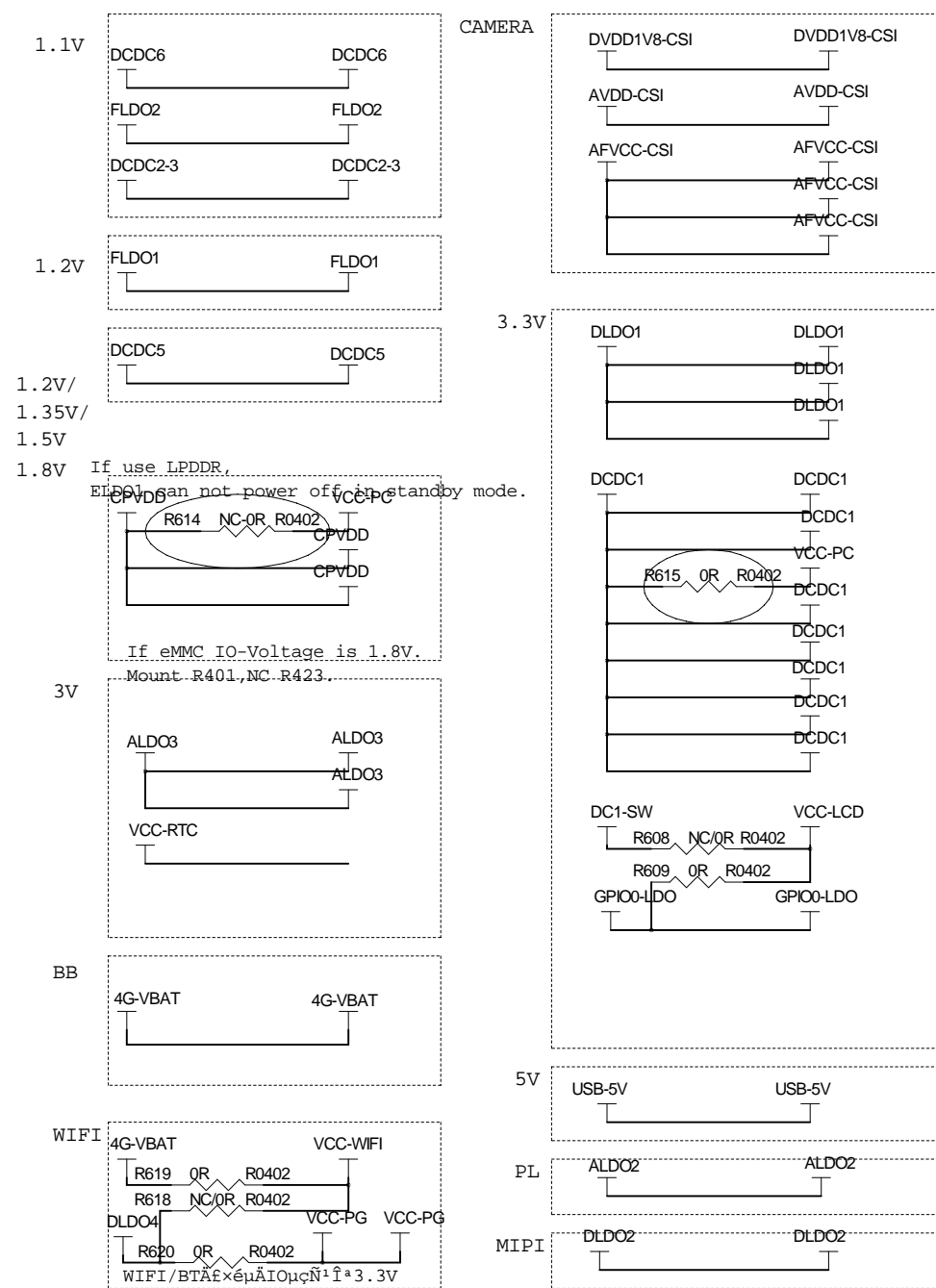
# Power BAT

IF use the battery temperature sensor: A=NC  
otherwise: A=10k

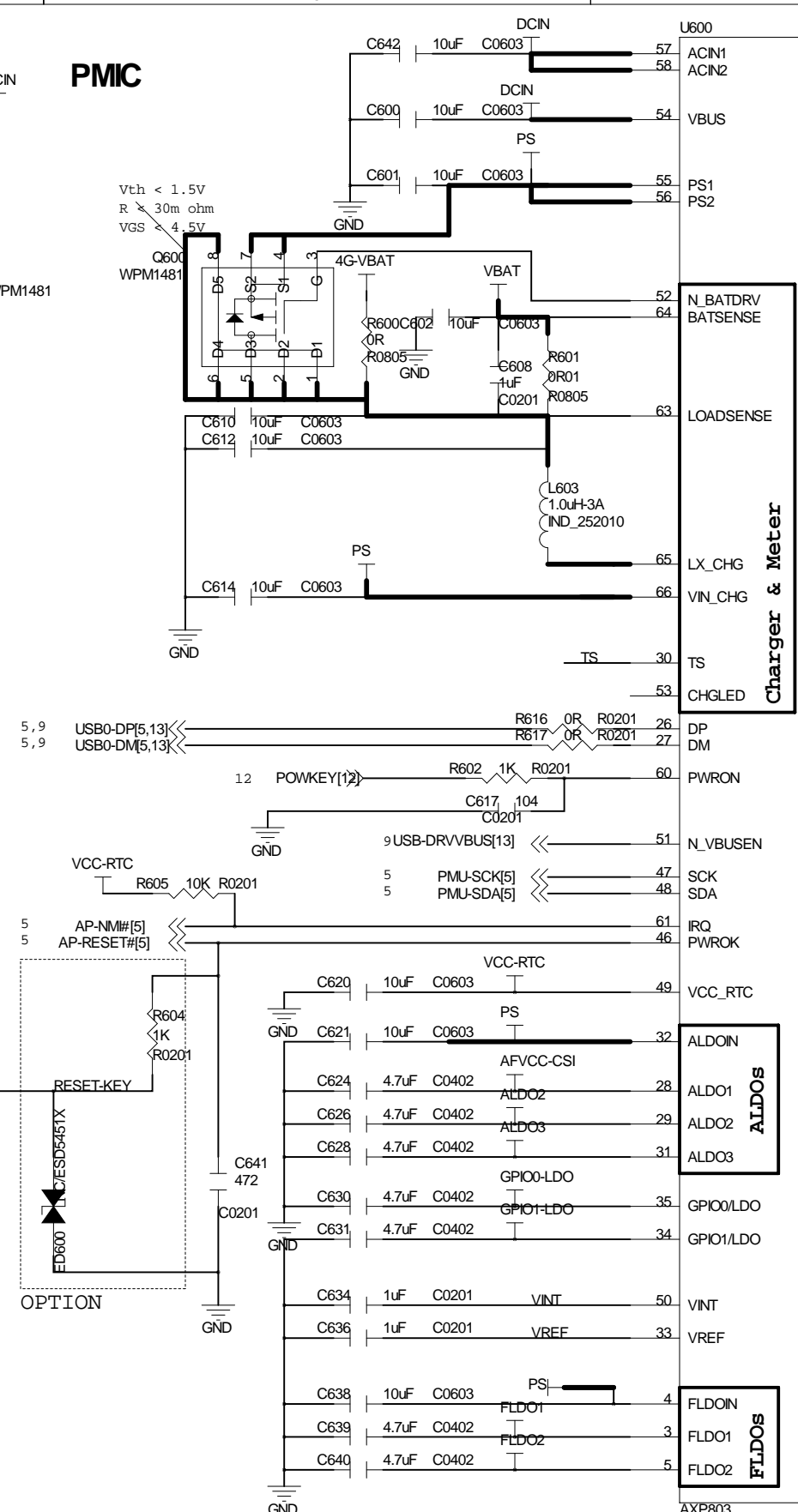


$$V_{out} = 0.6 \times (1 + RA/RB)$$

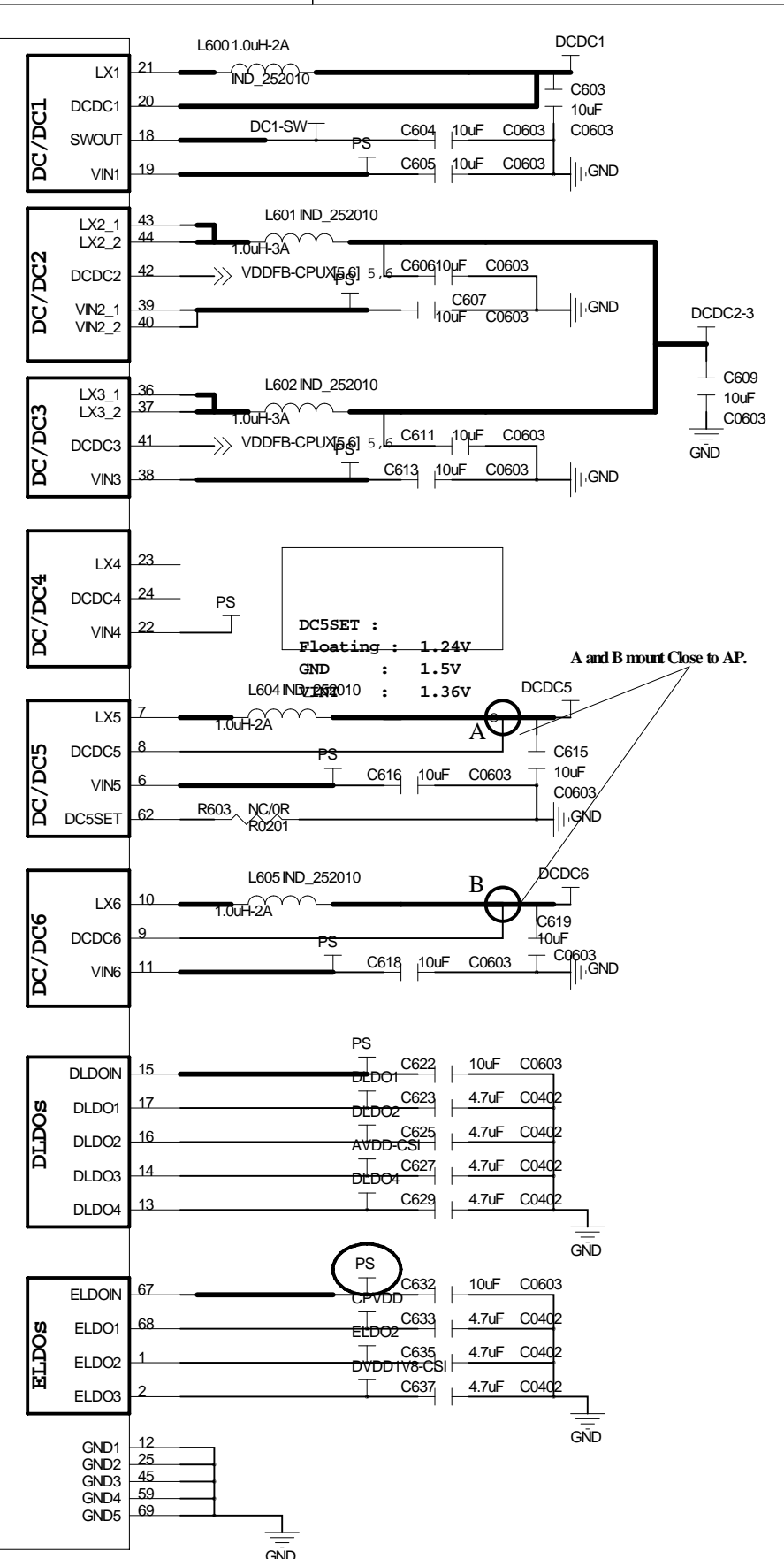
$$I_{max} = 2A$$



## DCIN PMIC

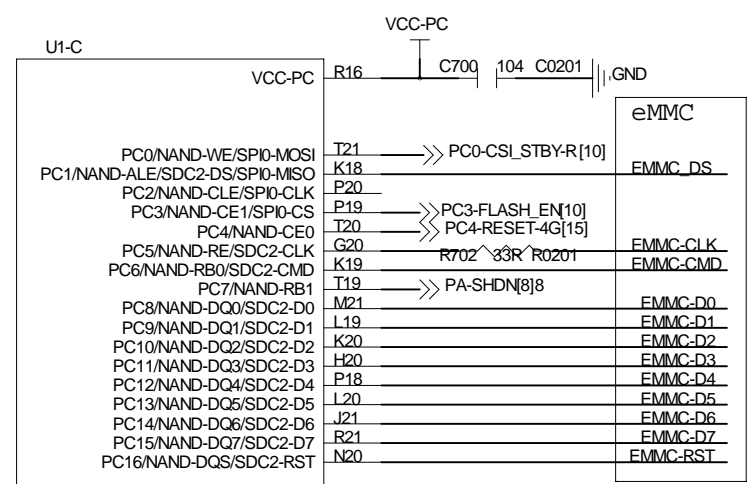


## Charger & Meter

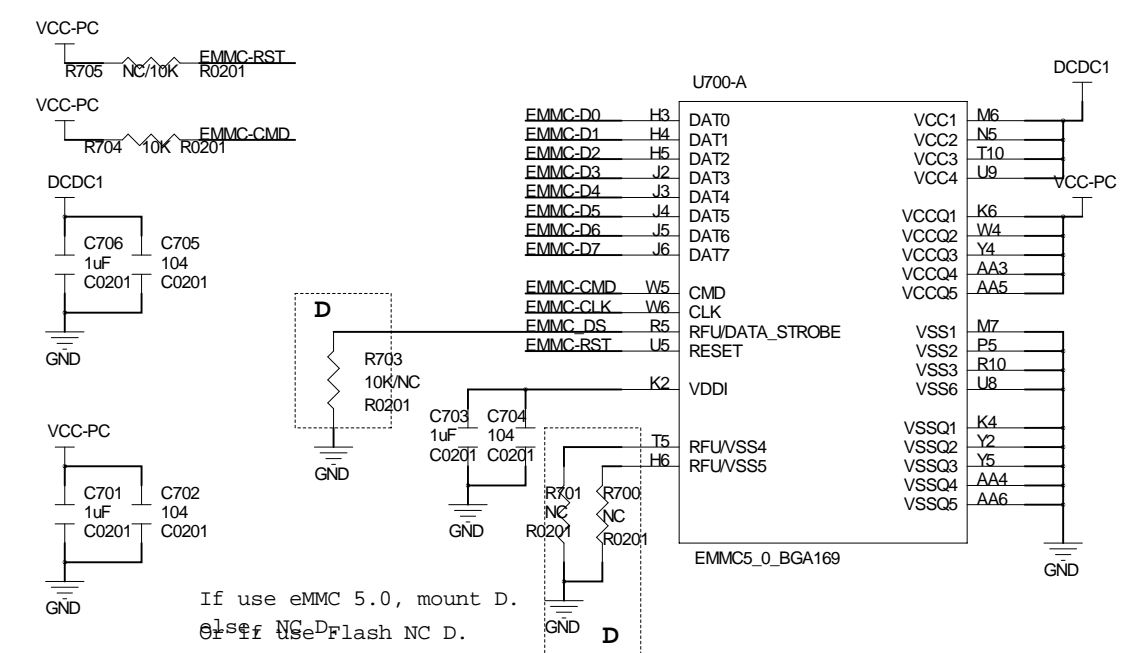
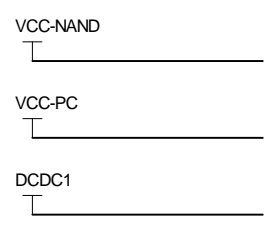


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# NAND/eMMC

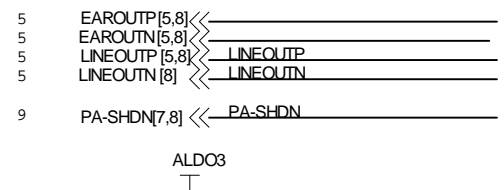
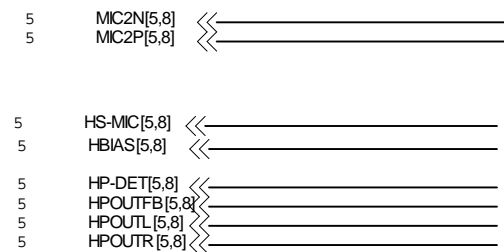
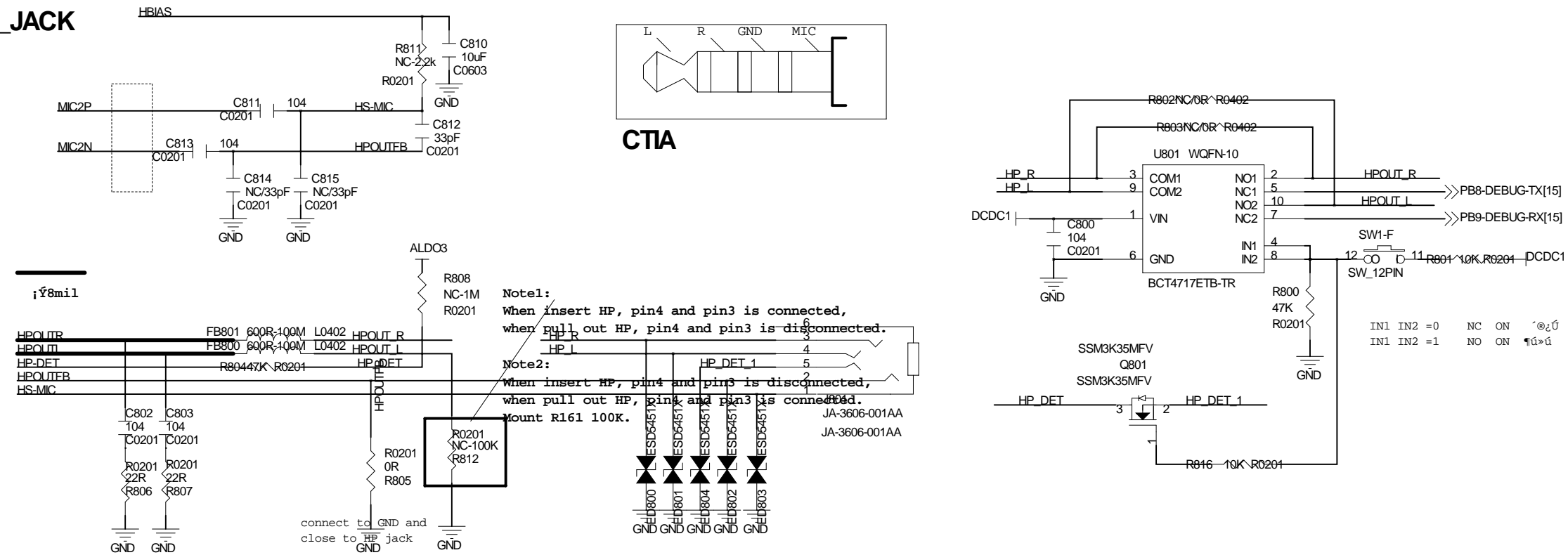


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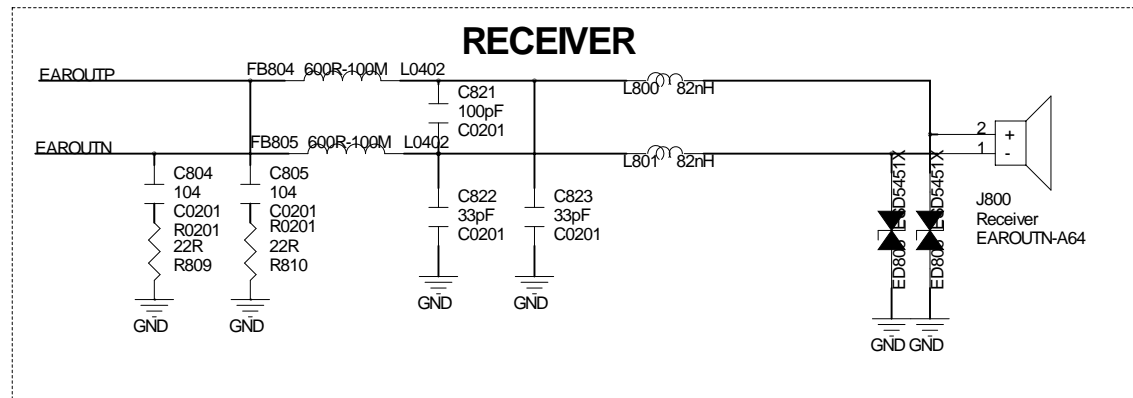


# AUDIO

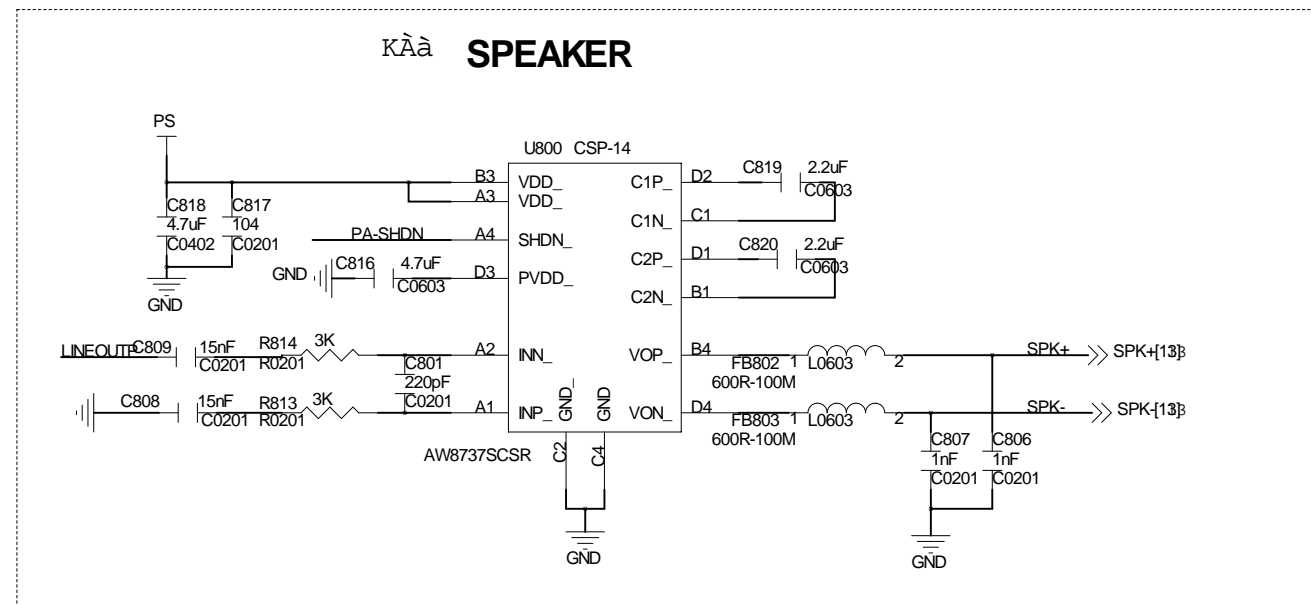
## HP JACK



## RECEIVER



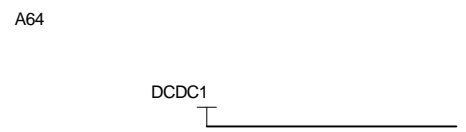
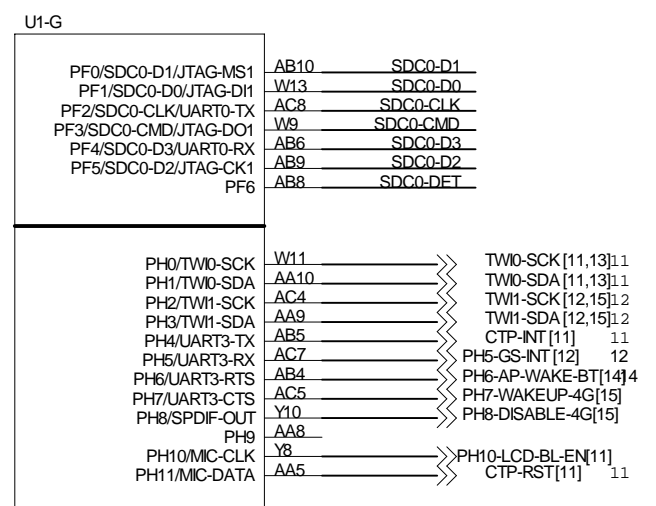
## SPEAKER



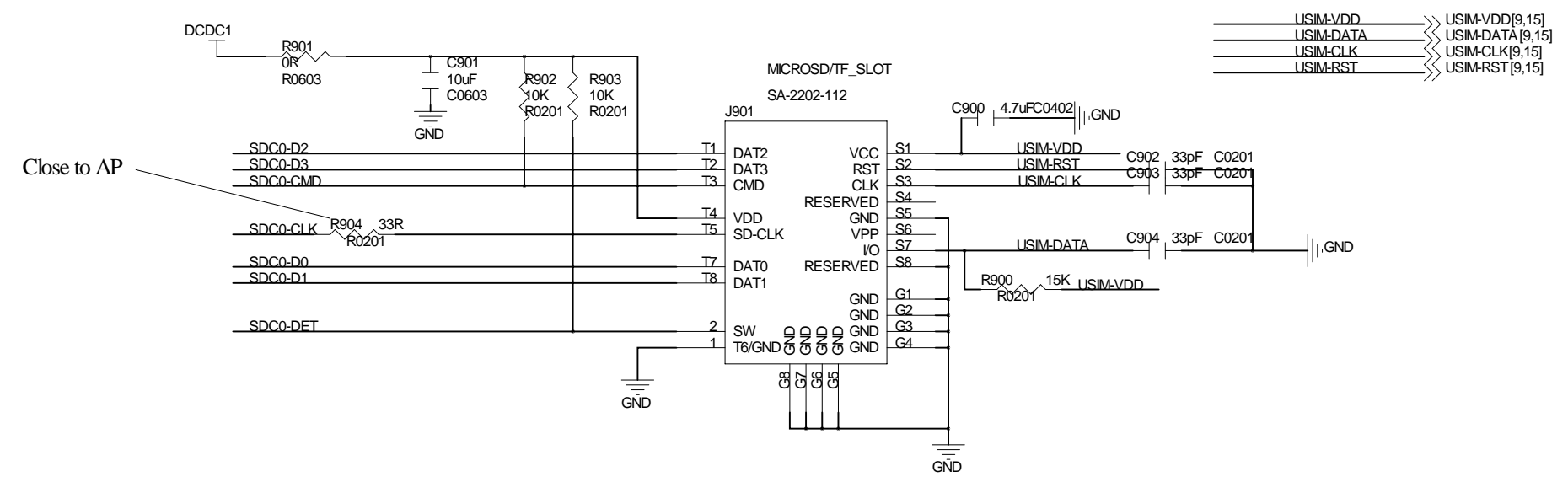
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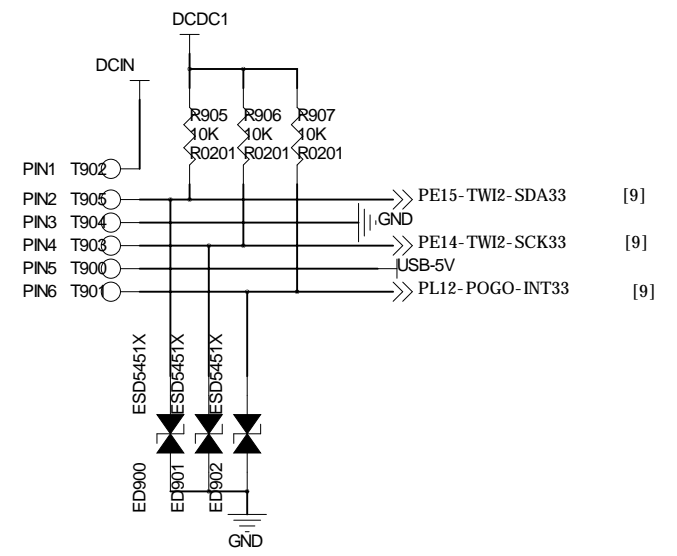
# T-CADD/SIM



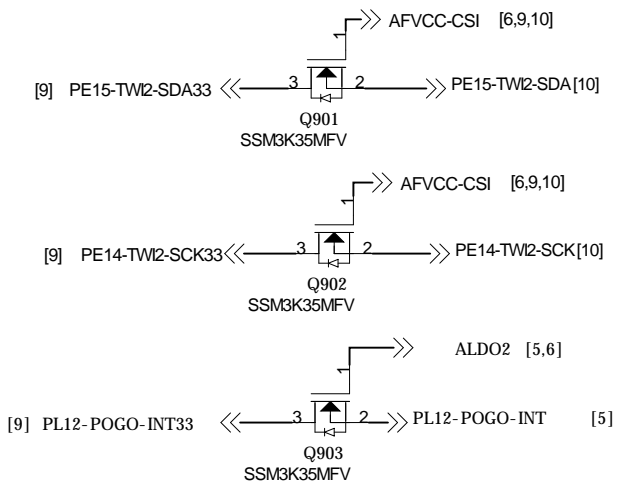
# T-CARD



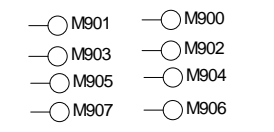
# POGO PIN



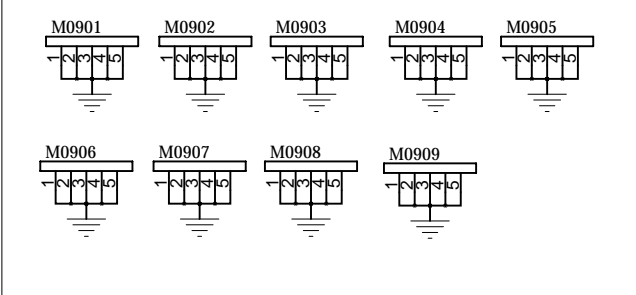
# level shift



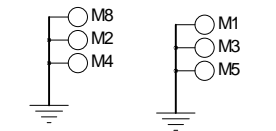
# MARK



# Shield clamp



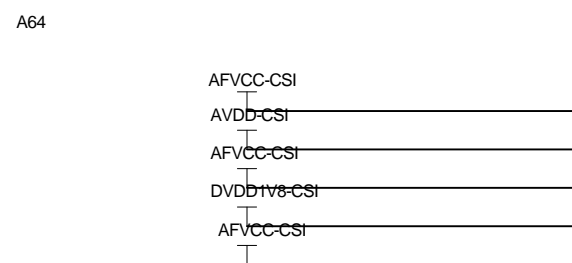
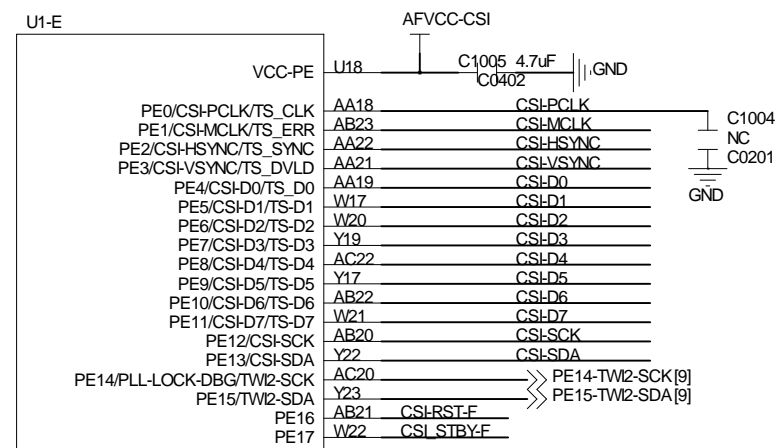
# PTH



# PINE6 4

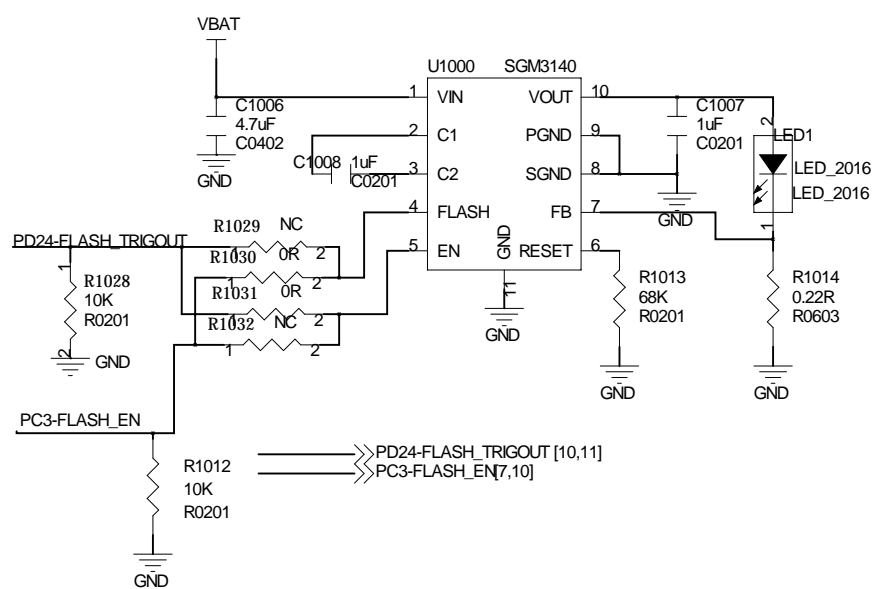
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# CAMERA

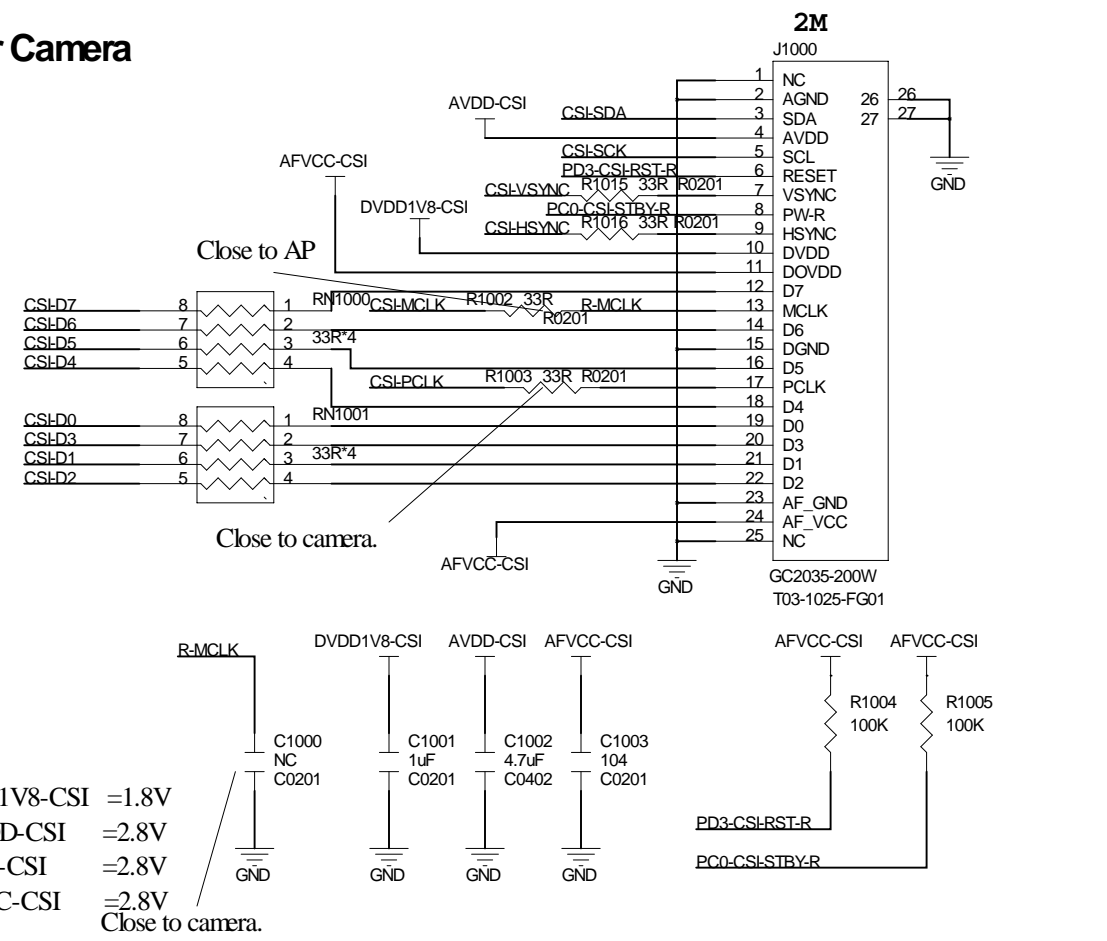


## FLASH LED Drive

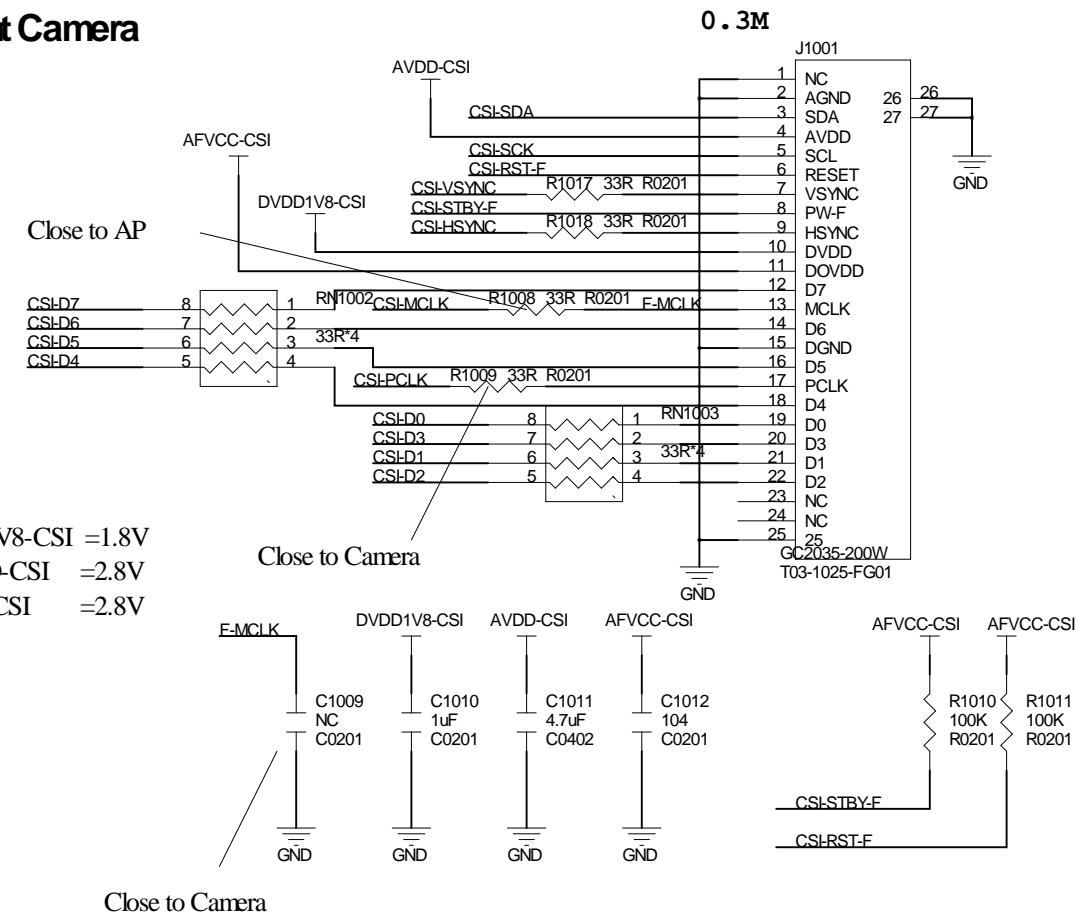
note: Drive up to 1A



## Rear Camera



## Front Camera



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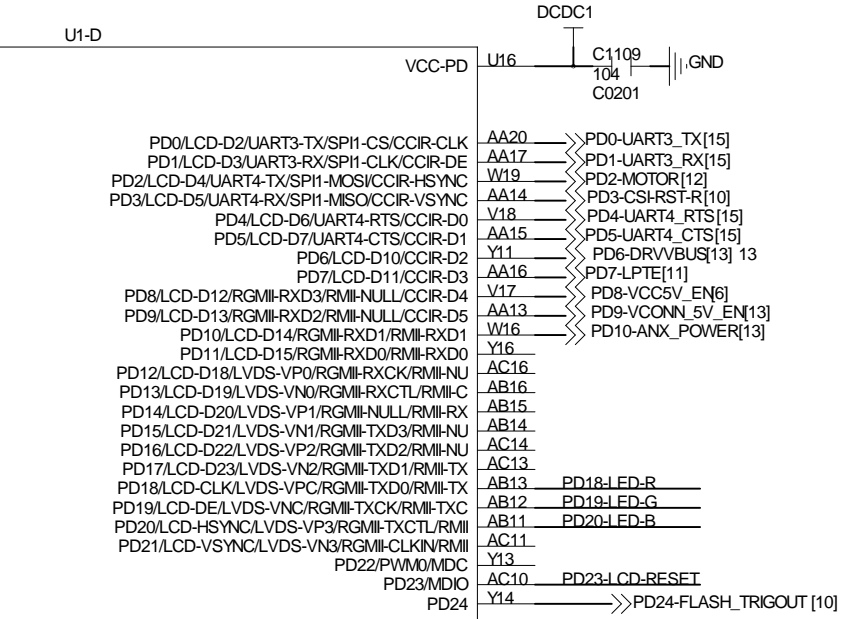
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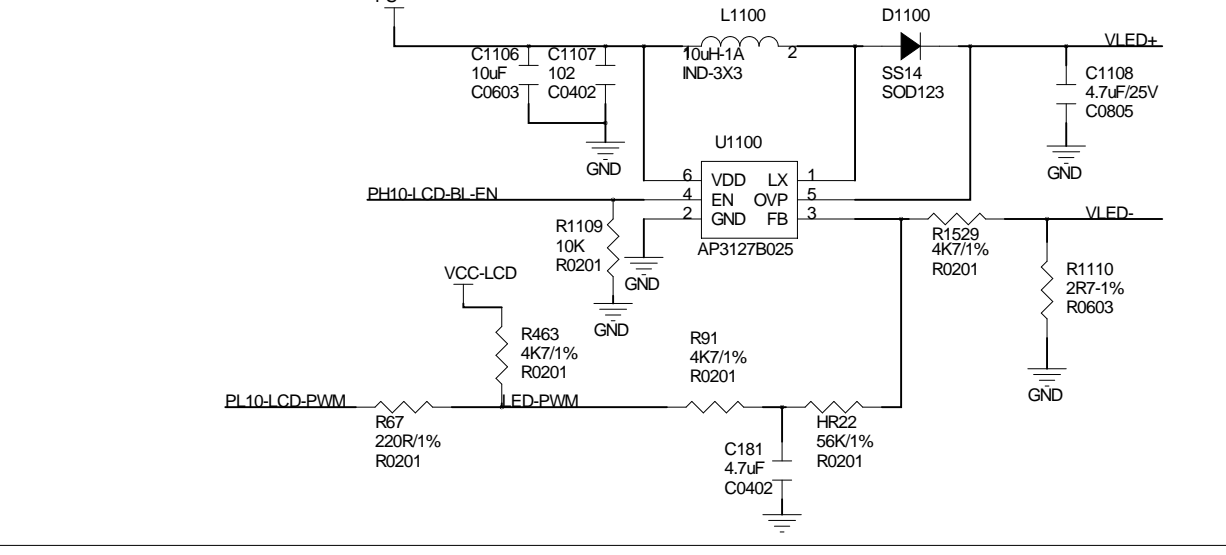
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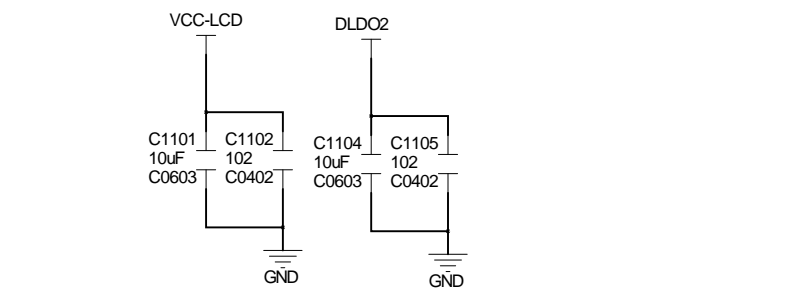
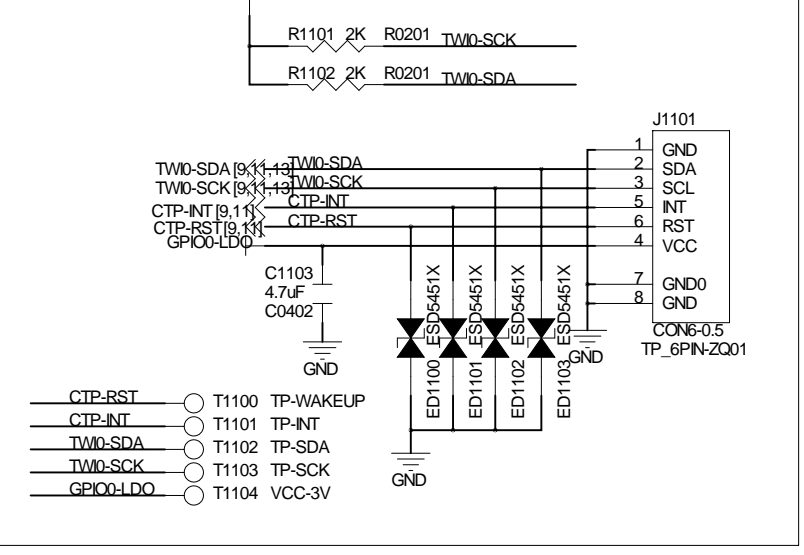
# LCM/CTP



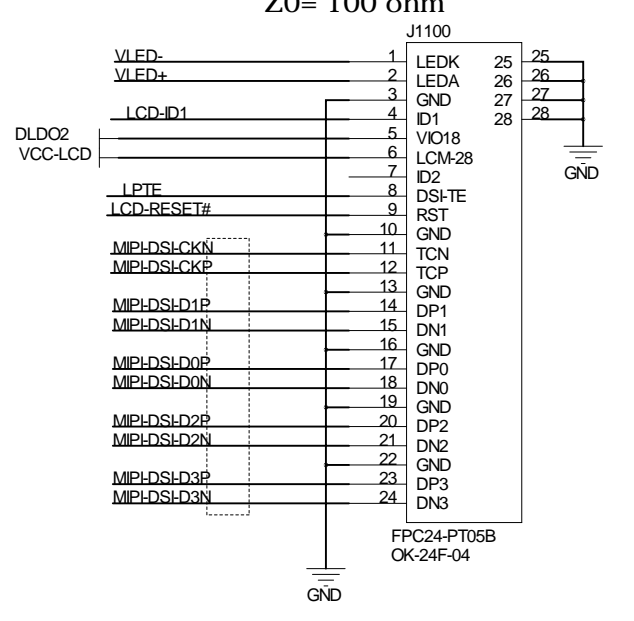
## Backlight



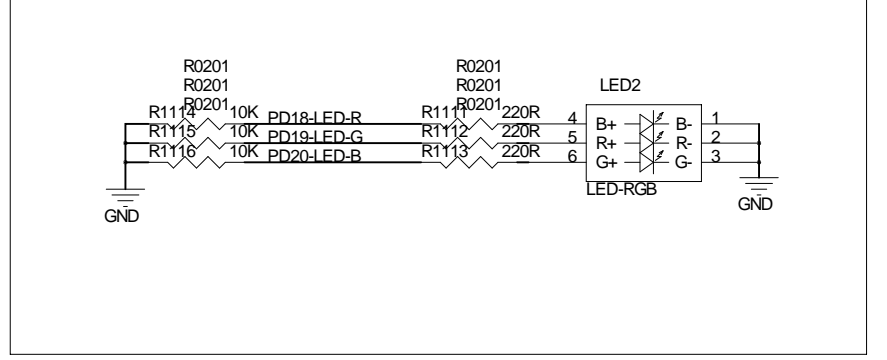
## CTP



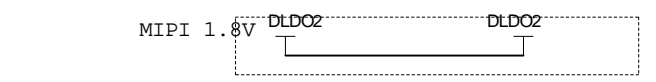
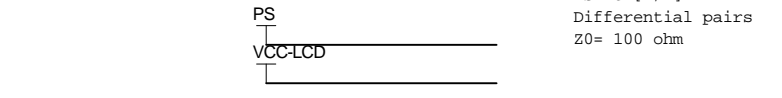
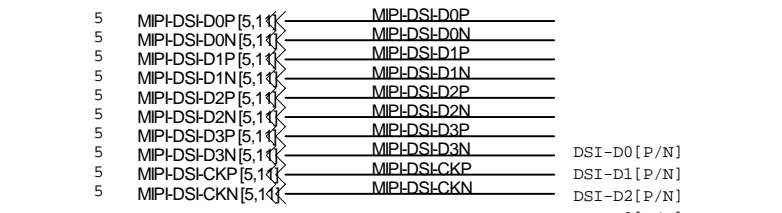
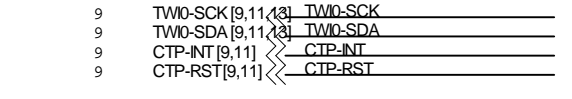
## MIPI Differential pairs



## LED



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# SENSORs/MT/KEY

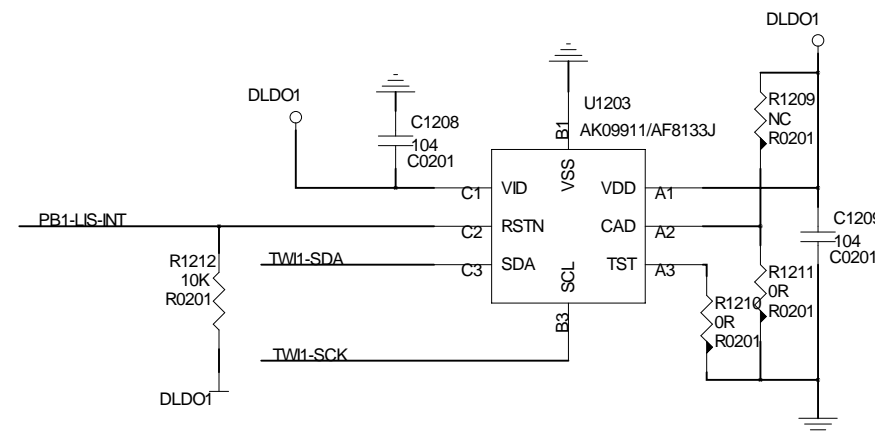
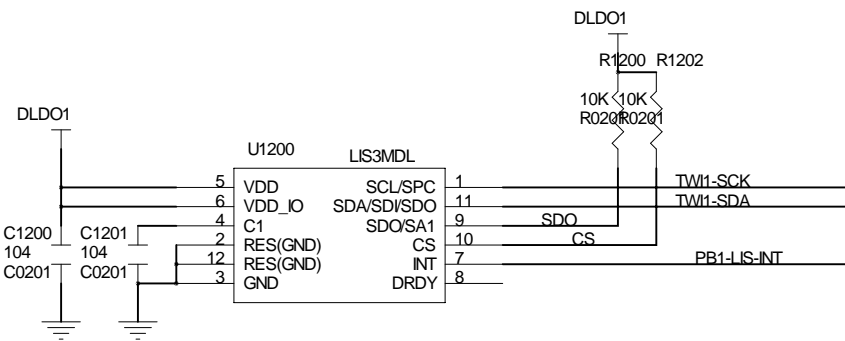
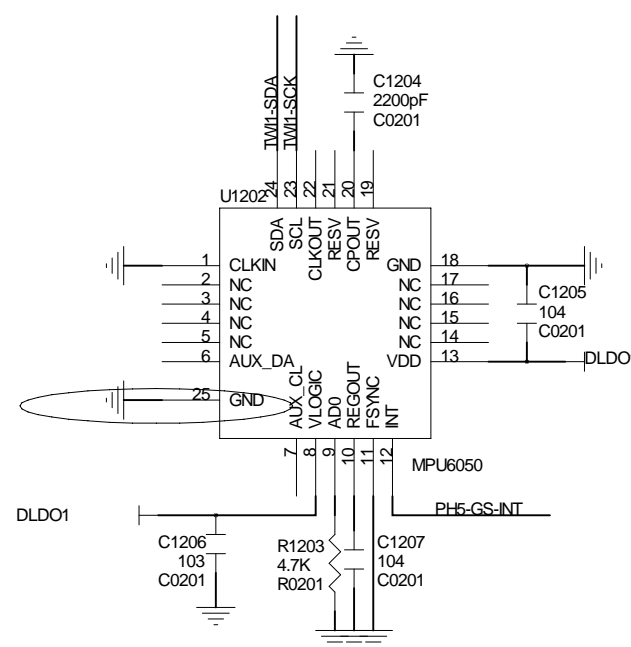
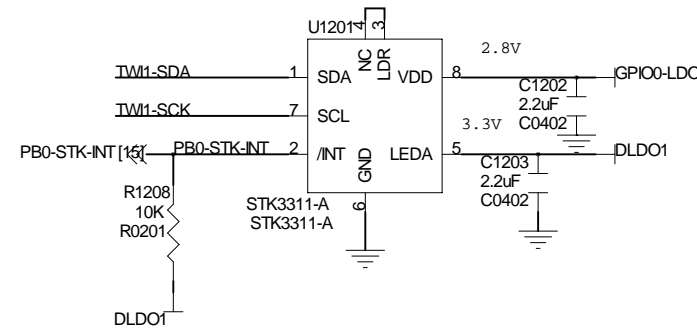
TW1-SCK [R12, B] MT1-SCK  
 TW1-SDA [R12, B] MT1-SDA  
 PH5-GS-INT [R12, B] PH5-GS-INT  
 PB1-LIS-INT [R12, B] PB1-LIS-INT

DLDO1

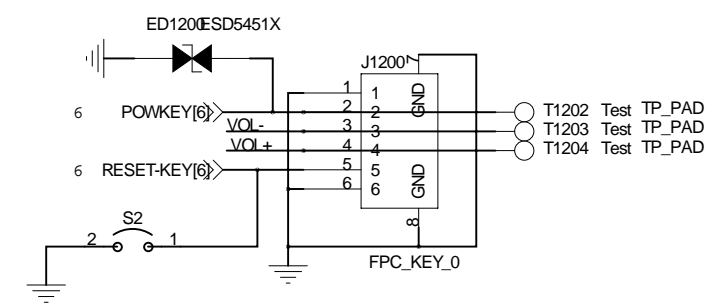
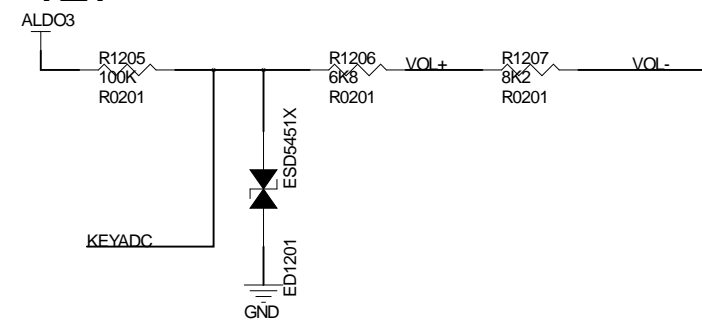
KEYADC[5, 12]

ALDO3

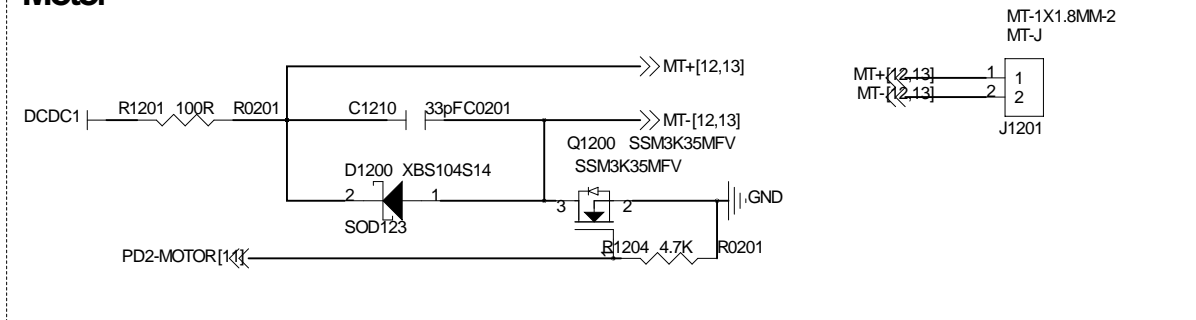
## SENSOR



## KEY

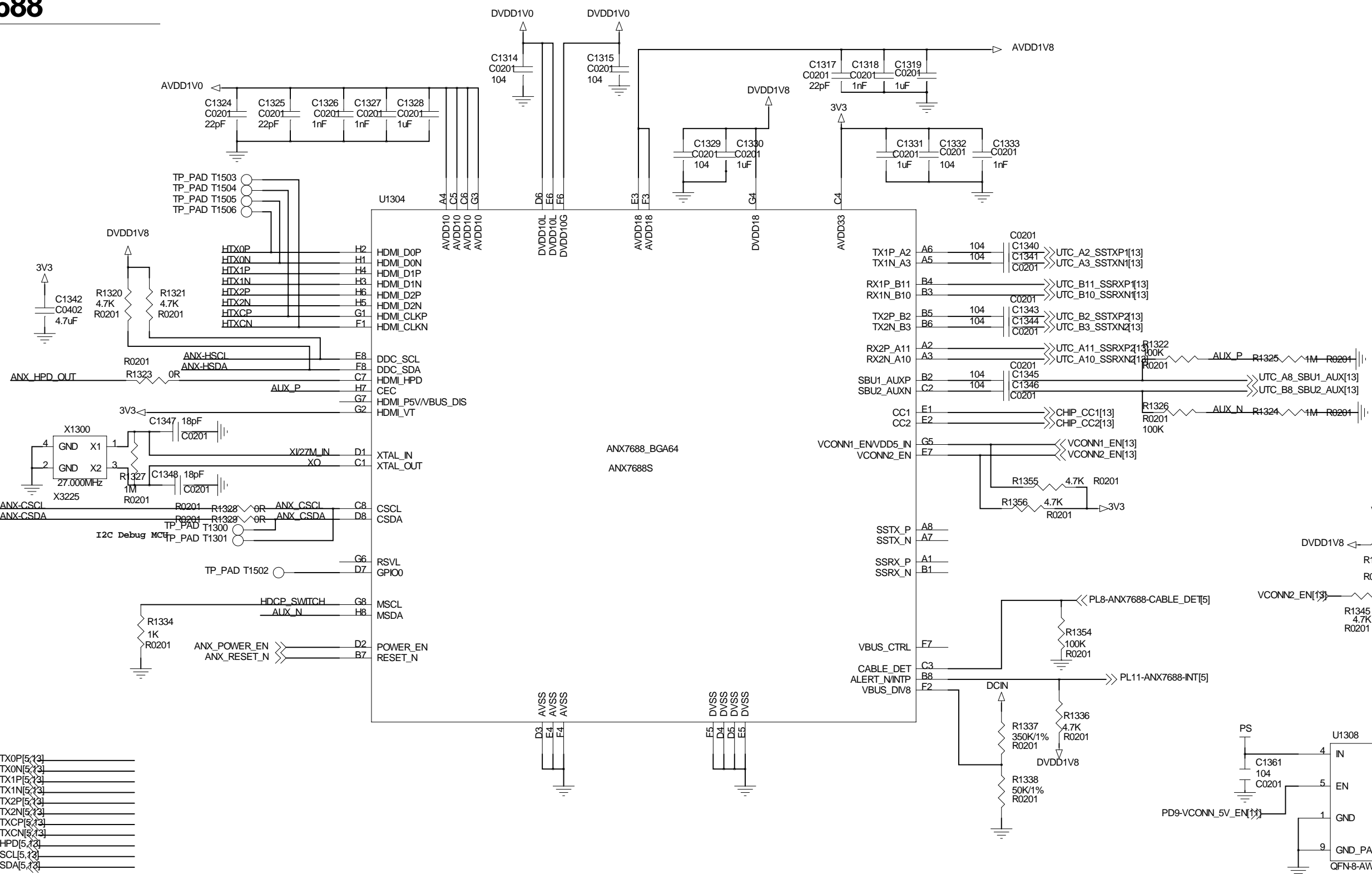


## Motor

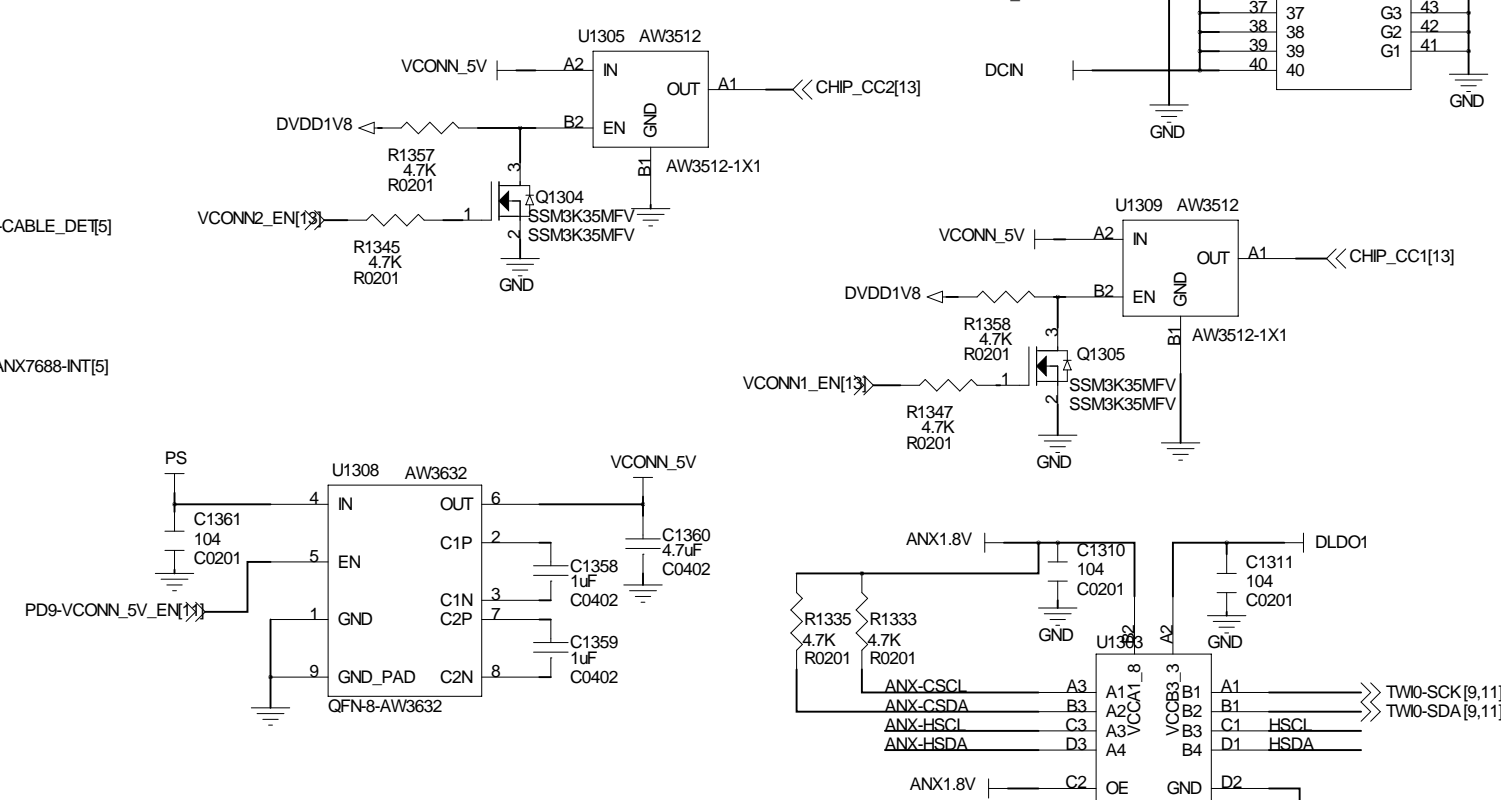
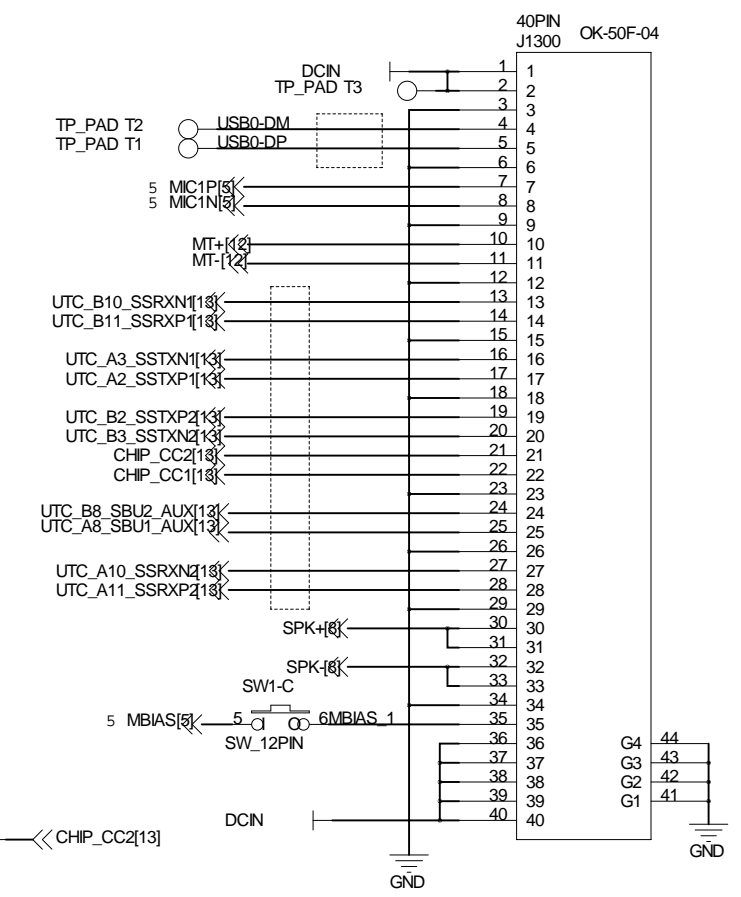


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# AXN7688

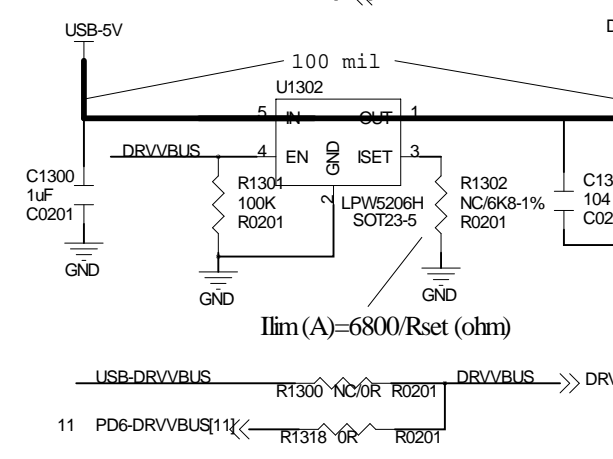


Differential pairs  
Z0 = 100 ohm

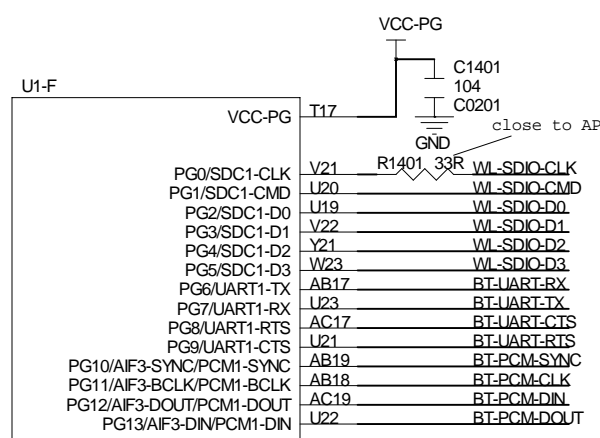


## USB Differential pairs

Z0 = 90 ohm

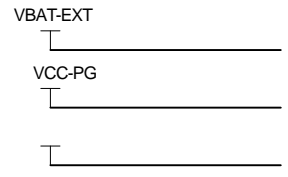
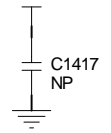


# WiFi+BT

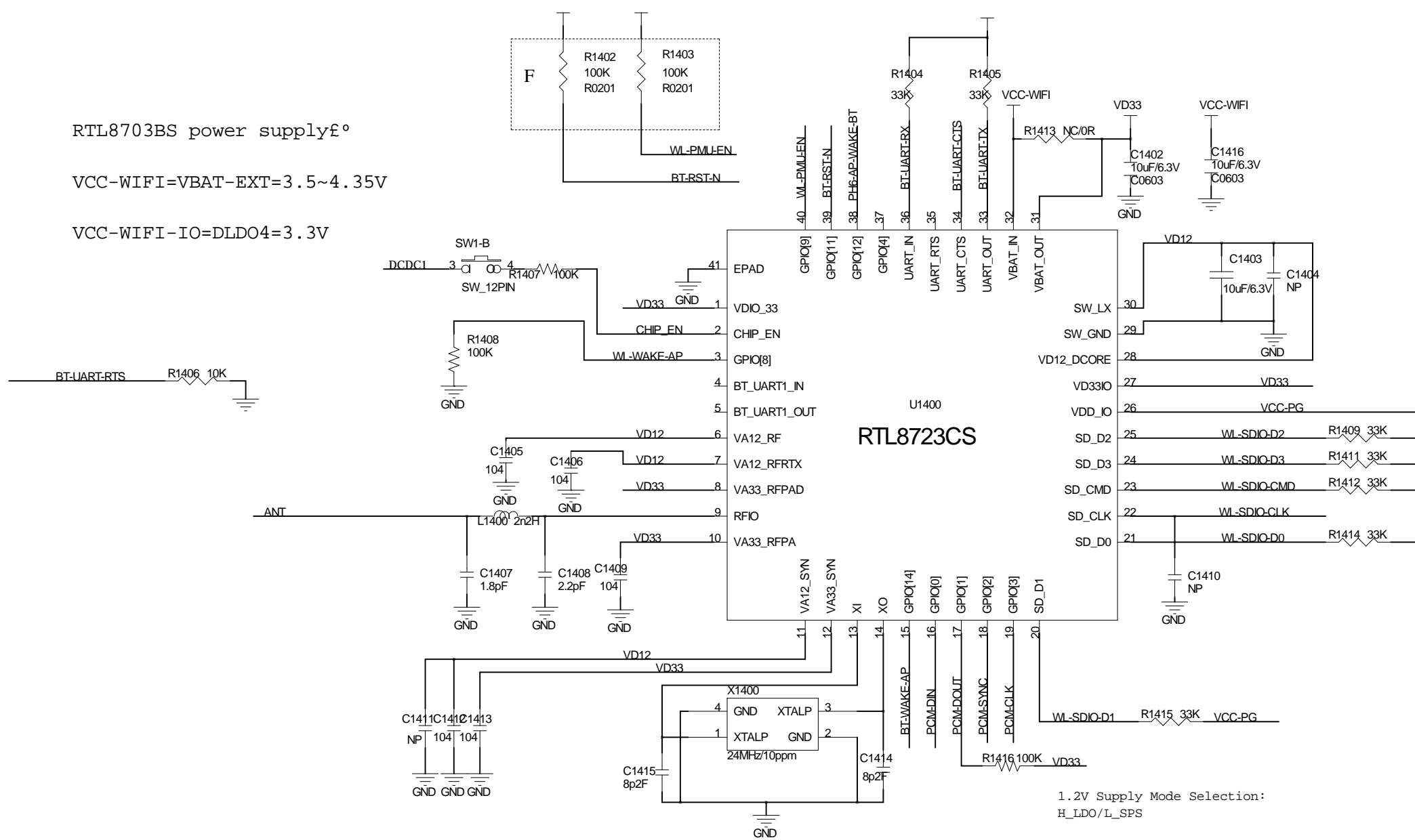


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- 5,15 WL-FMUJEN[14] <<< WL\_FMUJEN
- 5,15 WL-WAKE-AP[5,14] <<< WL\_WAKE-AP
- 5,15 BT-WAKE-AP[5,14] <<< BT\_WAKE-AP
- 5,15 BT-RST-N[5,14] <<< BT-RST-N
- 5,15 PH6-AP-WAKE-BT[3,4] <<< PH6-AP-WAKE-BT

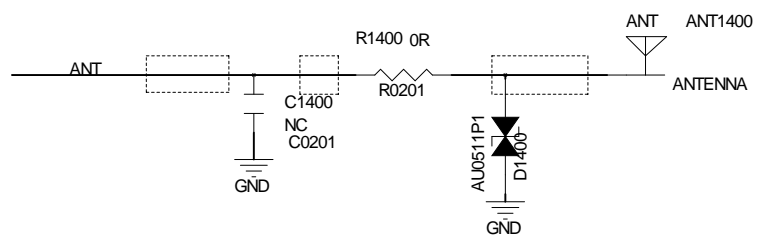


- 5 USB1-DM[5,14,15] <<< USB1-DM
- 5 USB1-DP[5,14,15] <<< USB1-DP

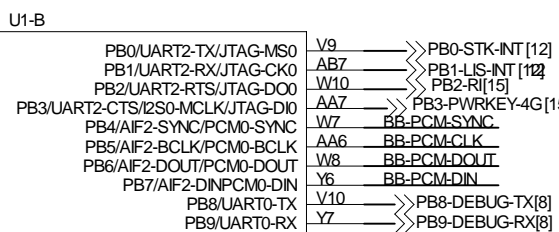


RTL8703BS power supply<sup>o</sup>  
 VCC-WIFI=VBAT-EXT=3.5~4.35V  
 VCC-WIFI-IO=DLDO4=3.3V

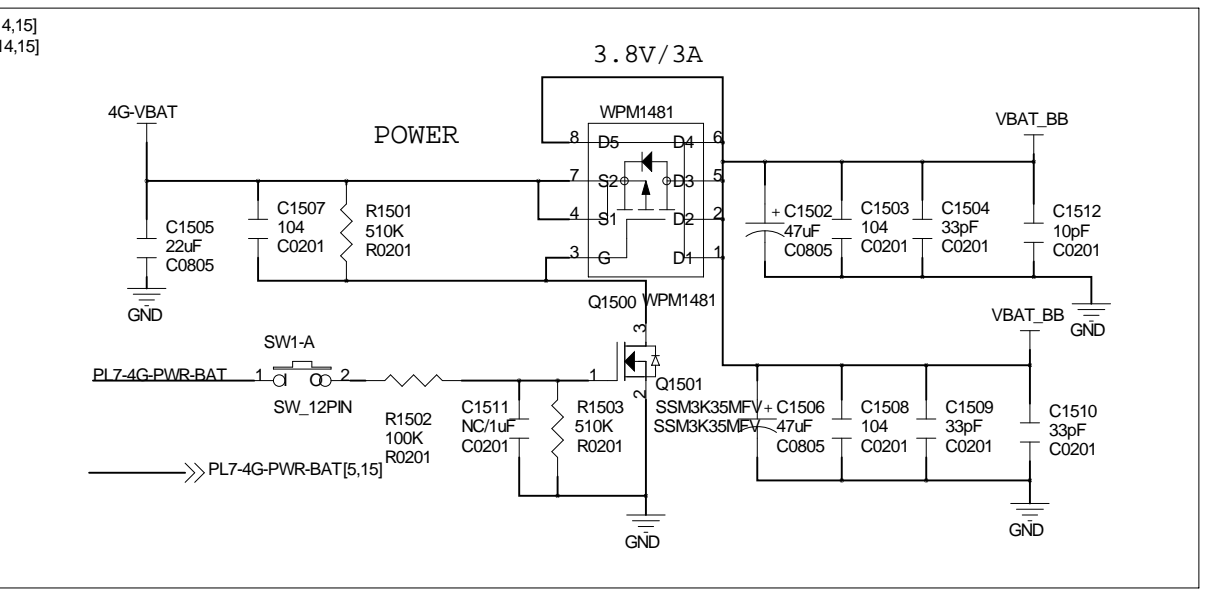
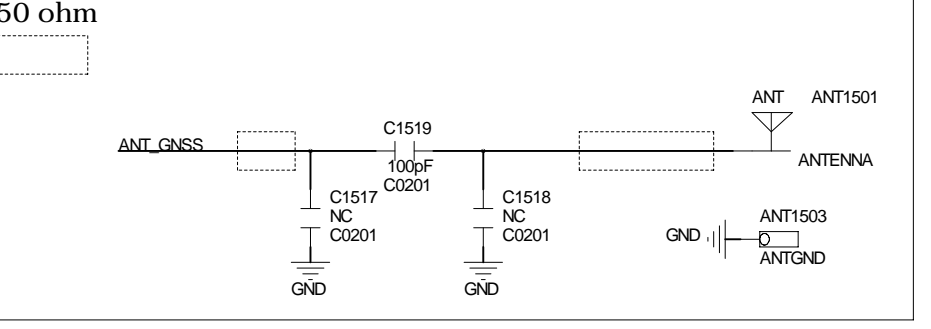
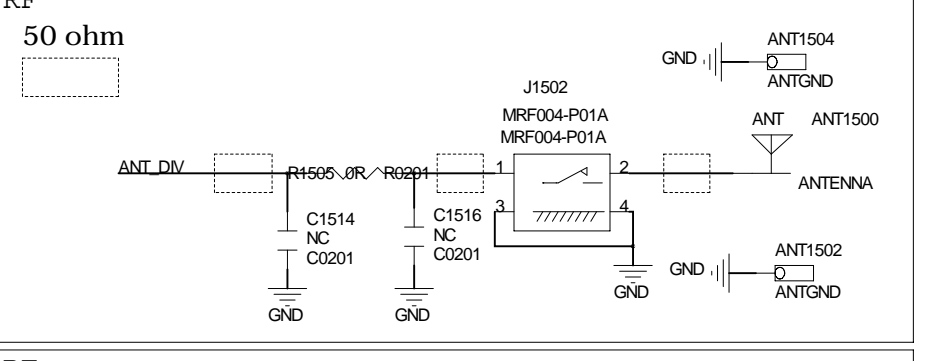
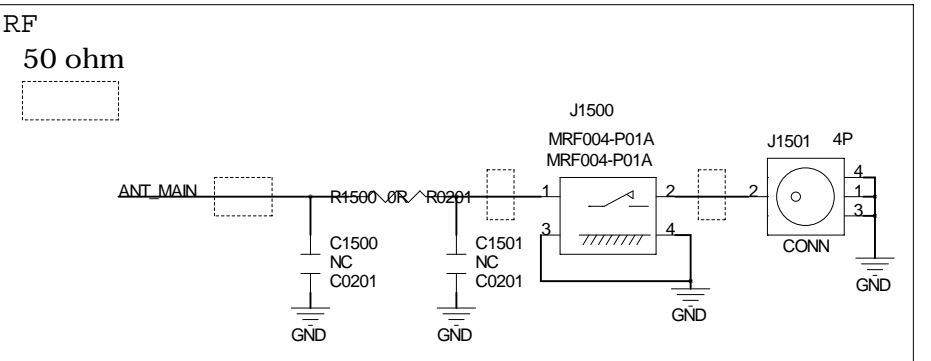
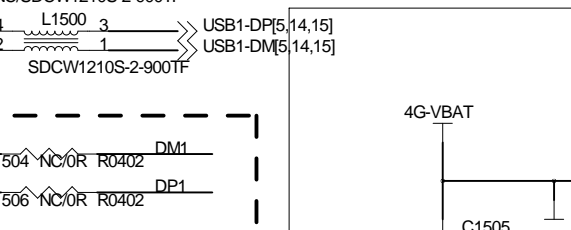
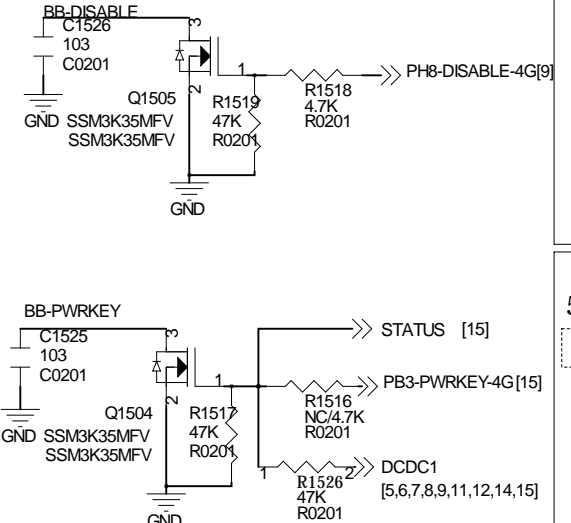
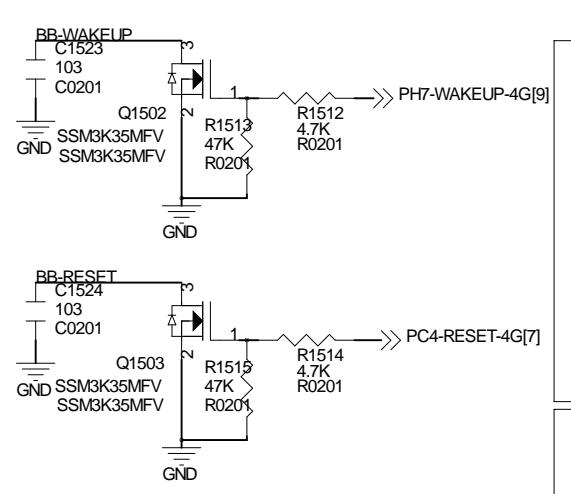
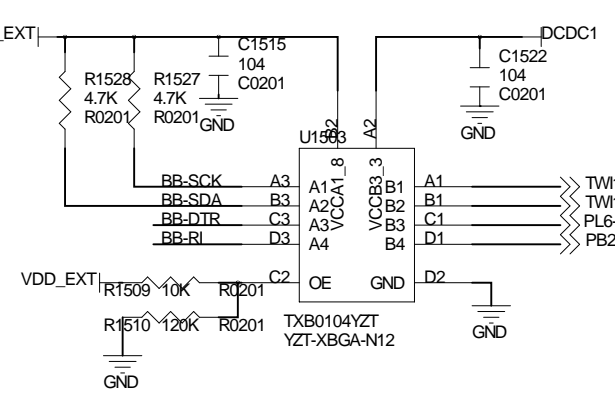
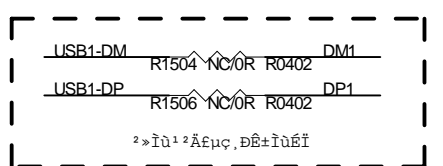
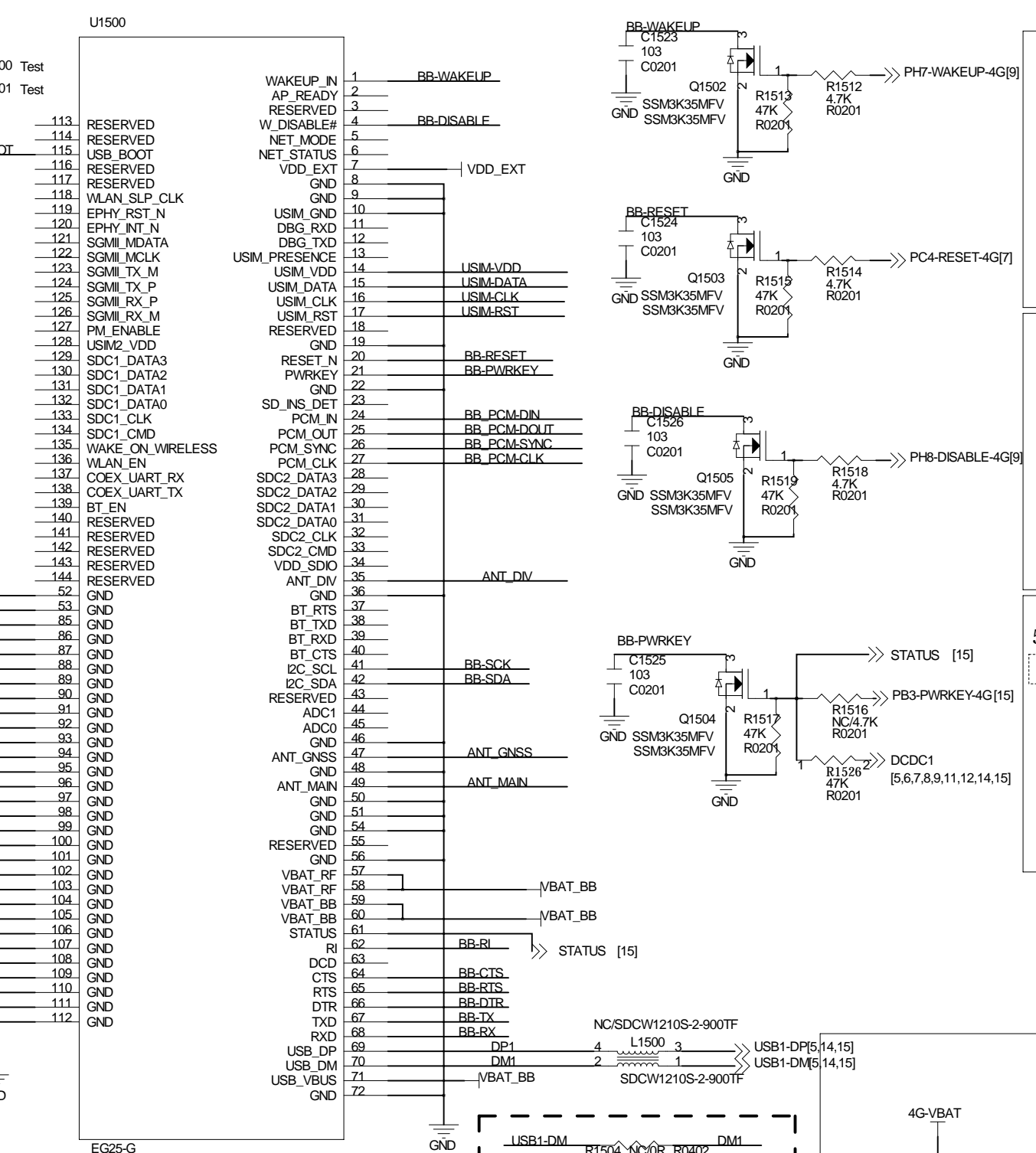
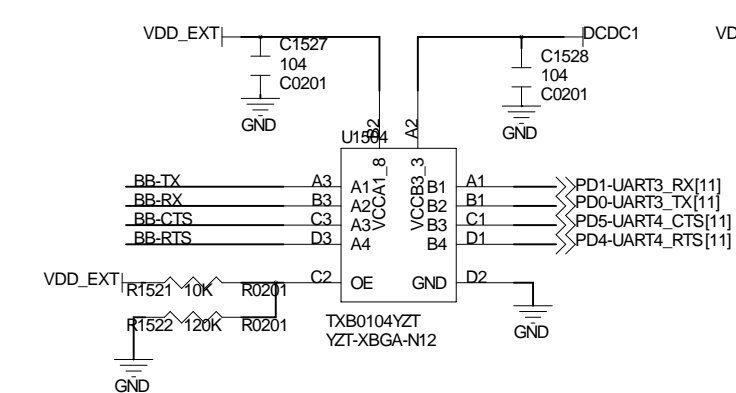
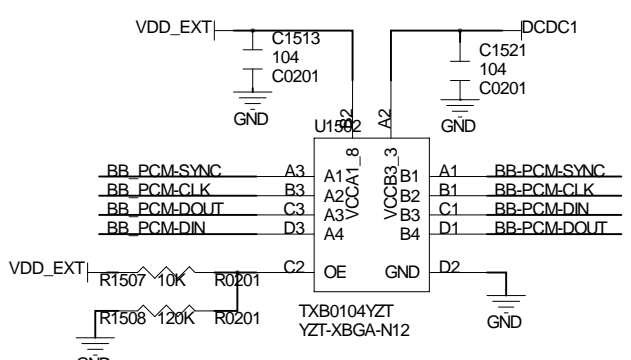
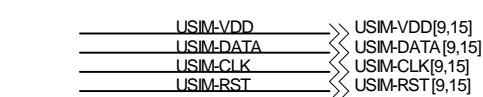
- BT-PCMC1-SYNC R1410 33R PCMC1-SYNC
- BT-PCMC1-CLK R1417 33R PCMC1-CLK
- BT-PCMC1-DIN R1418 33R PCMC1-DIN
- BT-PCMC1-DOUT R1419 33R PCMC1-DOUT



# MODEM 4G



4G-VBAT 3.4~4.2V



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