

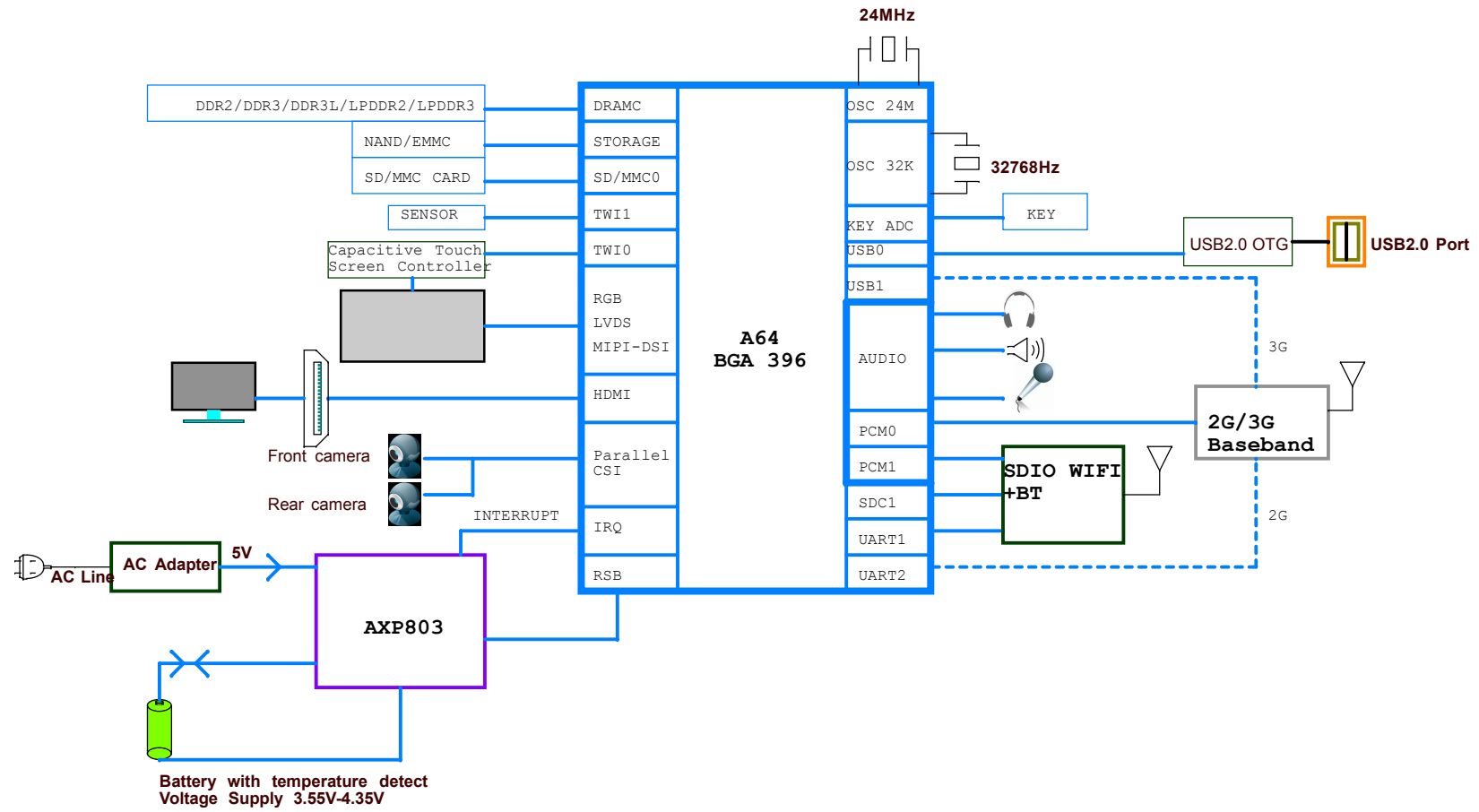
VERSION HISTORY

Revision	Description	Date	Drawn	Checked	Approved
Ver 1.0	Release version				

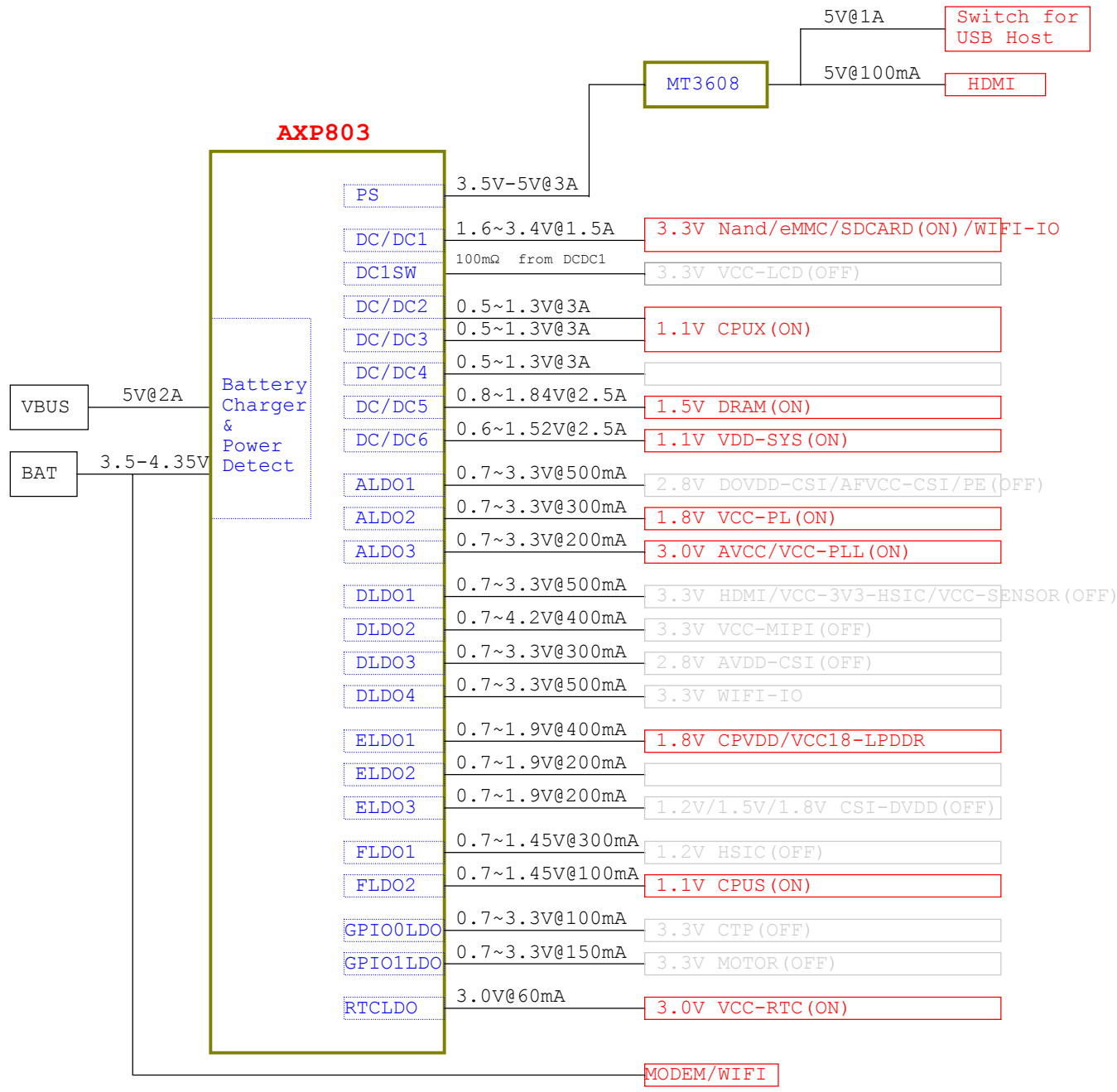
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- 13 HDMI
- 14 WIFI-BT
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- 16 EDP/MIPI-LCD

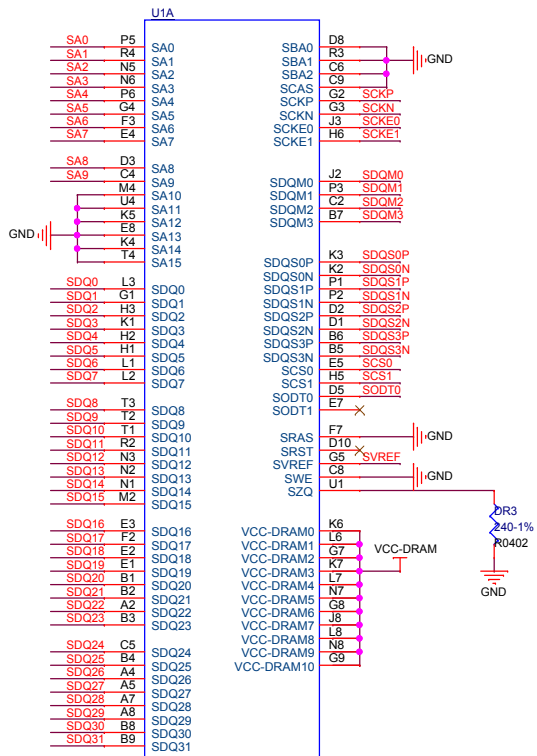
BLOCK DIAGRAM



POWER TREE

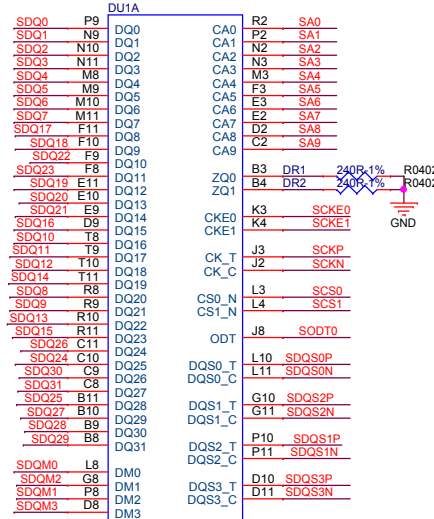


LPDDR3

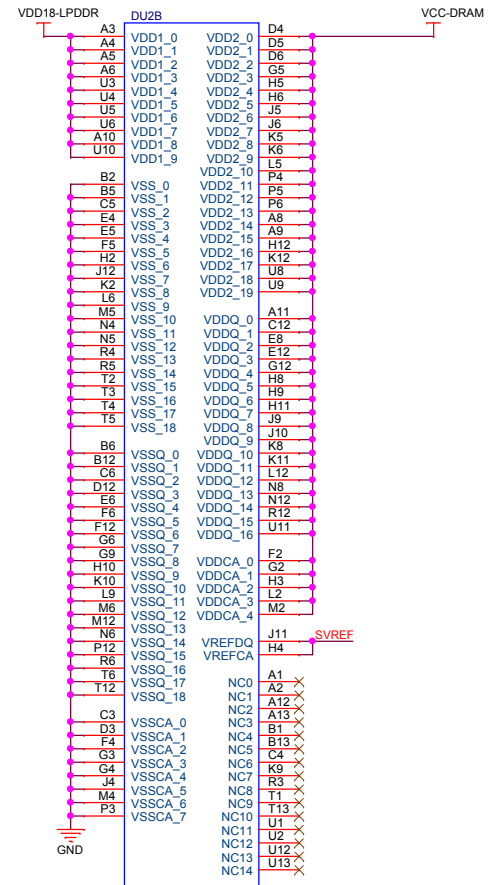


A64

2017-01-10

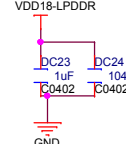
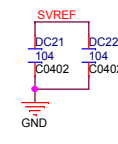
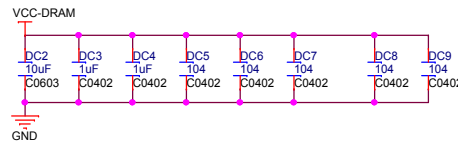
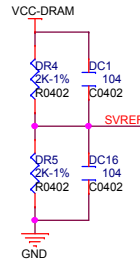
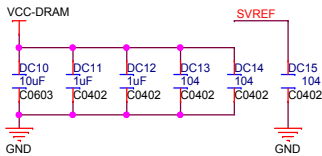


LPDDR3_FBGA178



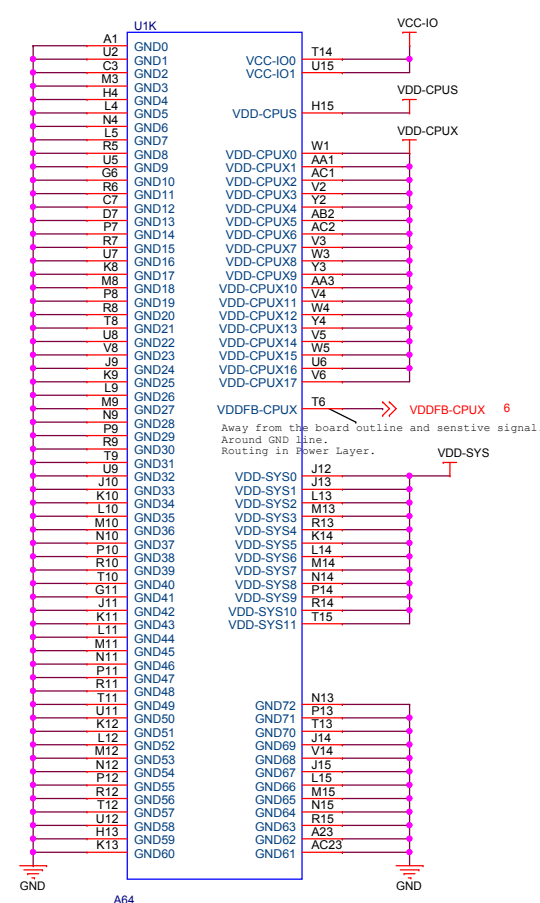
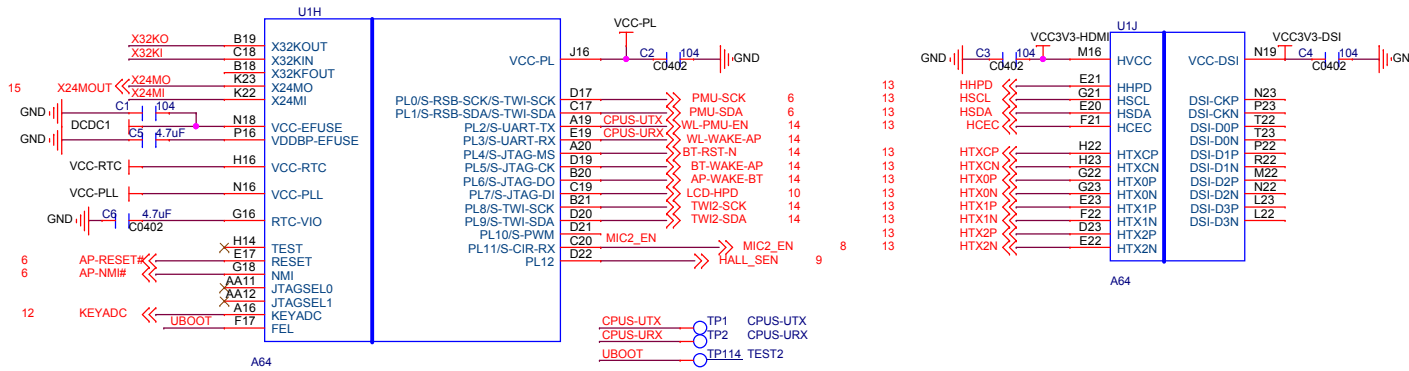
LPDDR3_FBGA178

2017-01-10

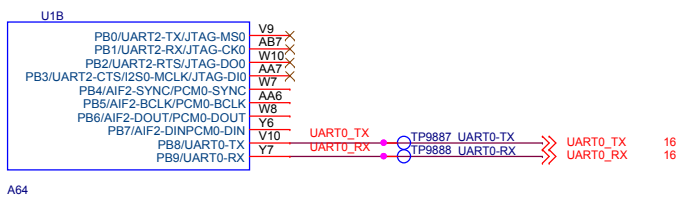
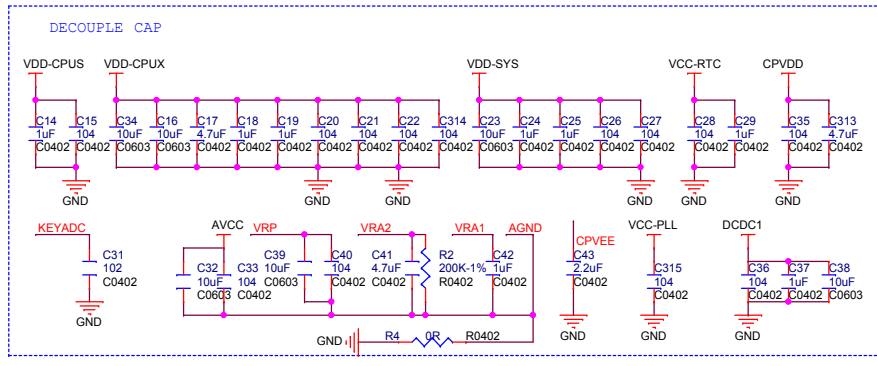
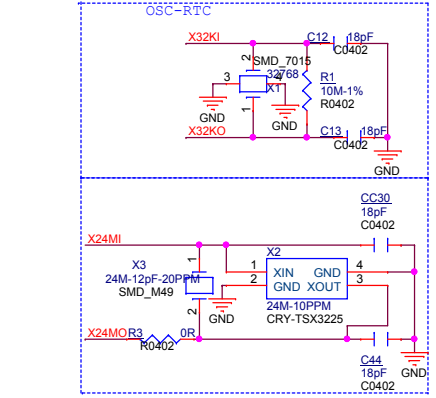
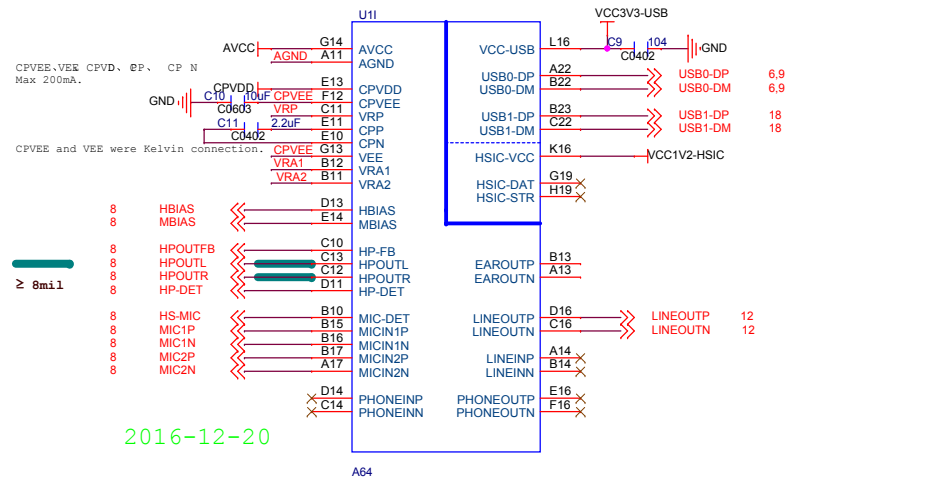
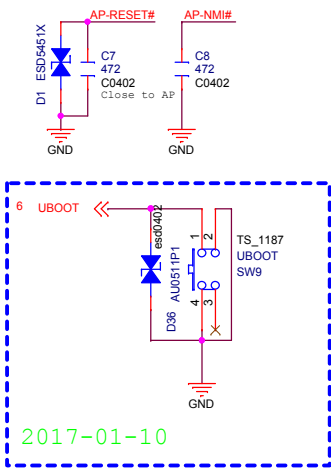


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CPU

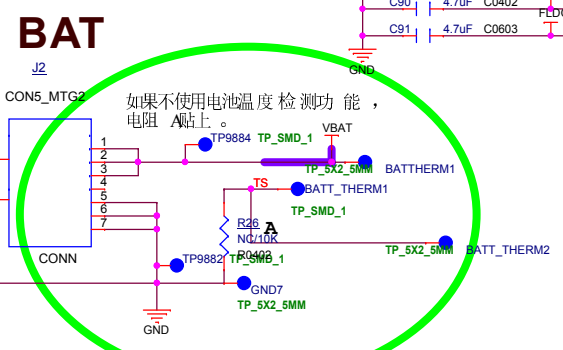
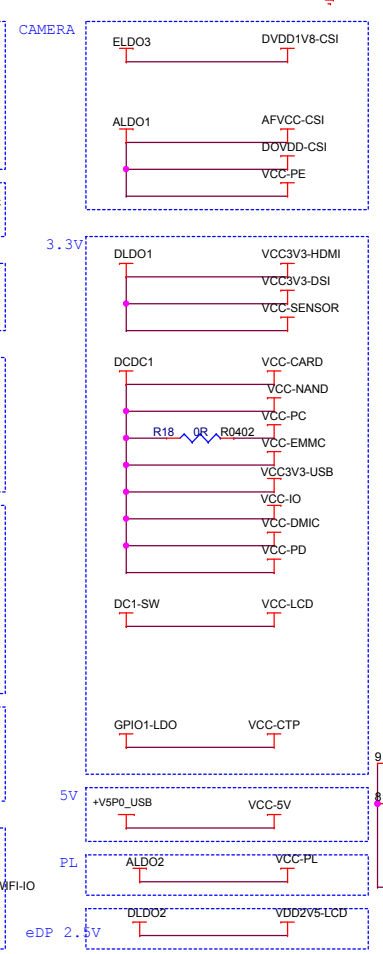
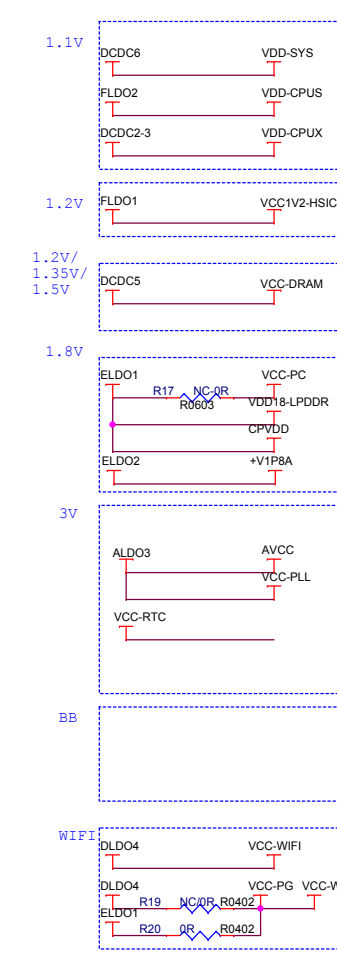
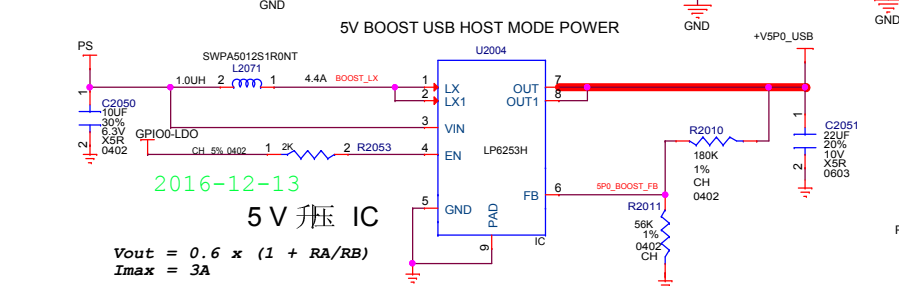
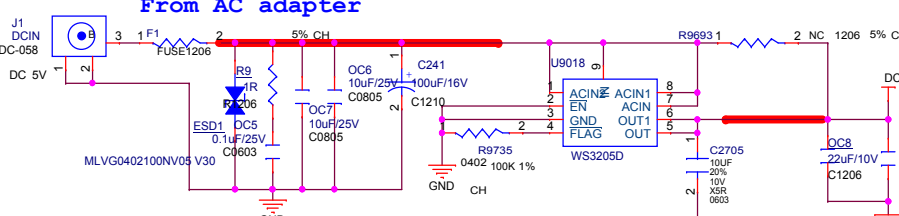


Away from the board outline and sensitive signal. Around GND line.

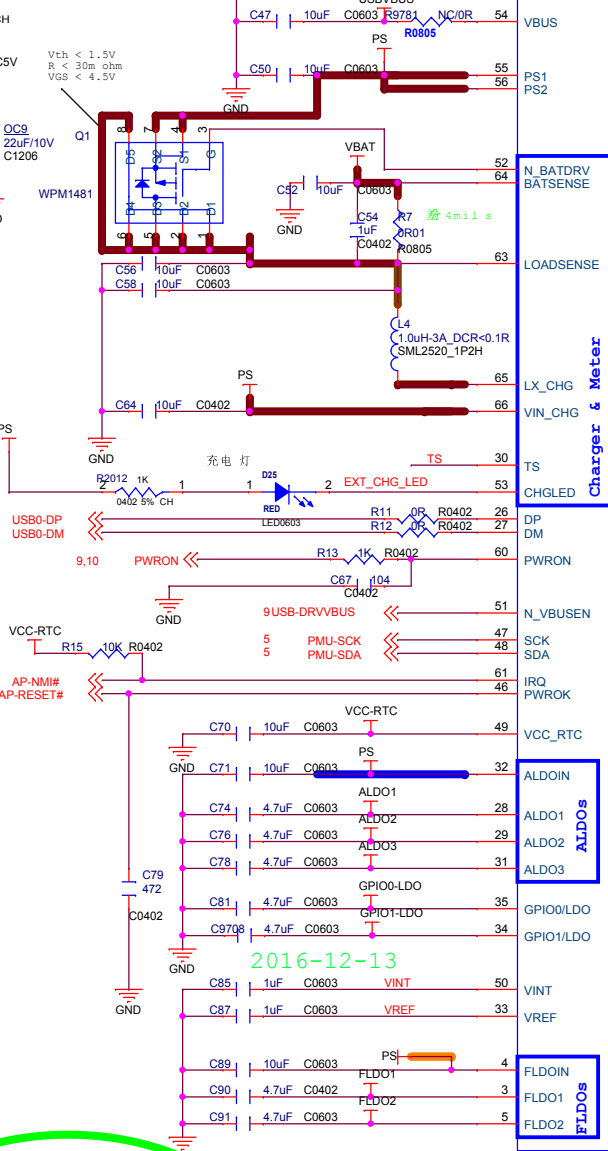


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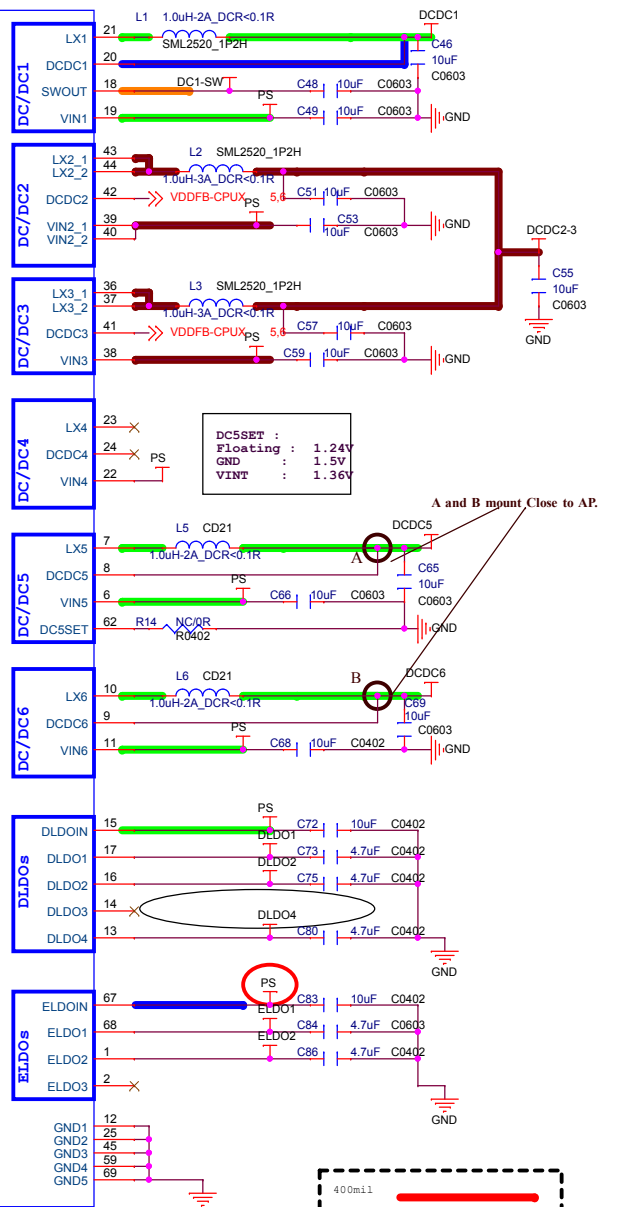
Power



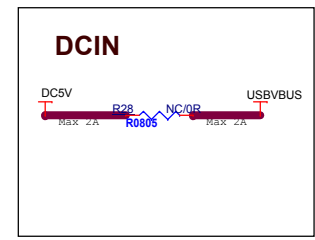
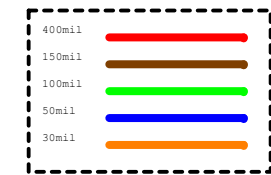
PMIC



Charger & Meter

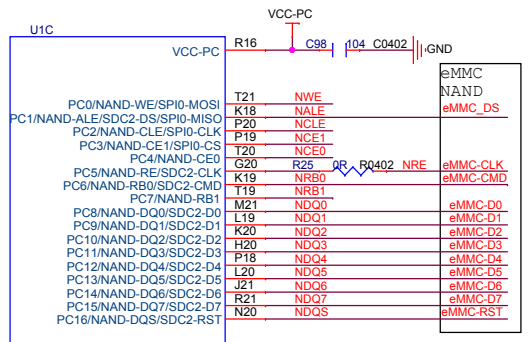


DC5SET :
Floating : 1.24V
GND : 1.5V
VINT : 1.36V

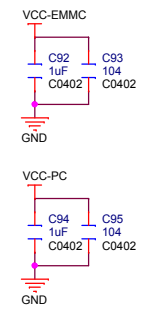
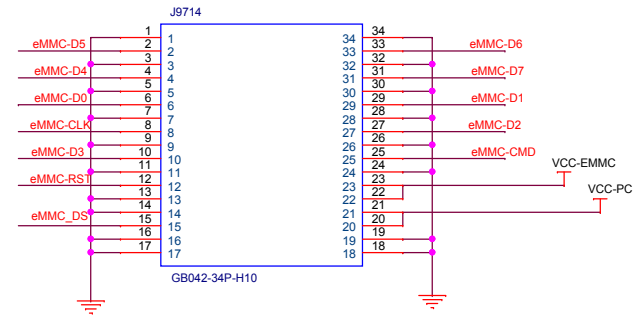


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NAND/eMMC



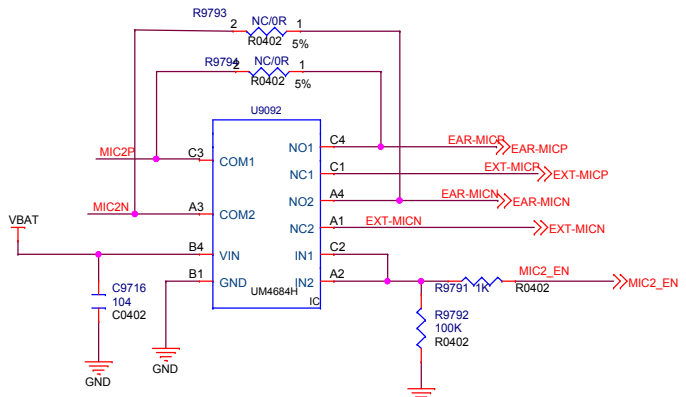
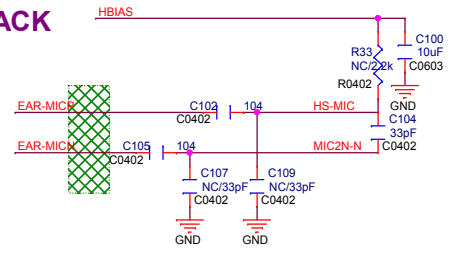
A64



Both eMMC NAND and first TSOP NAND layout together

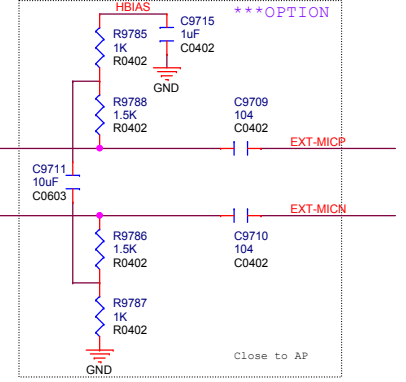
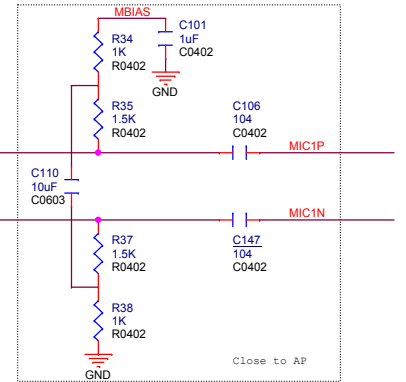
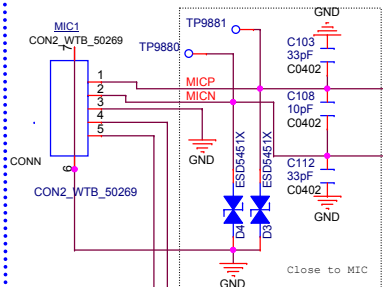
AUDIO

HP_JACK



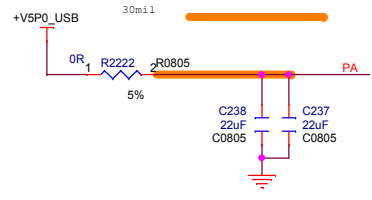
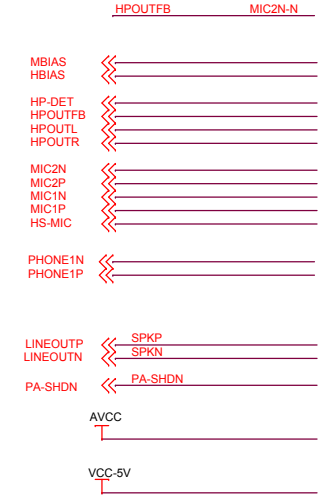
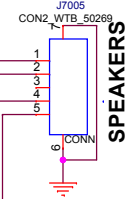
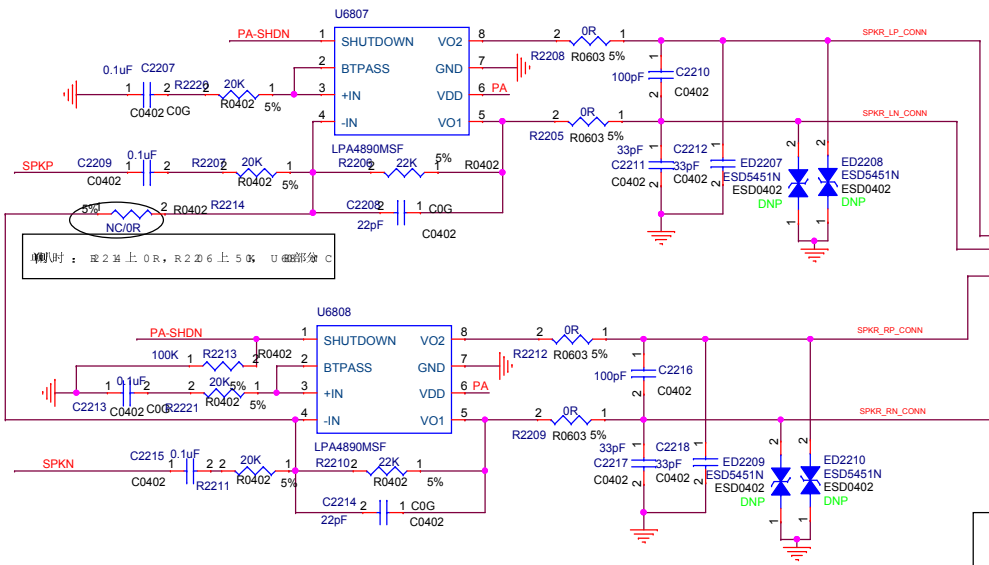
2016-12-22

ECM AMIC



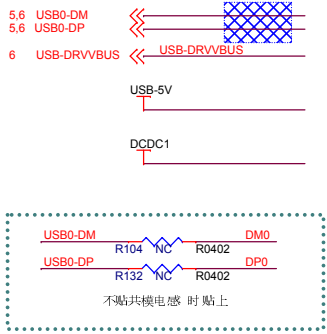
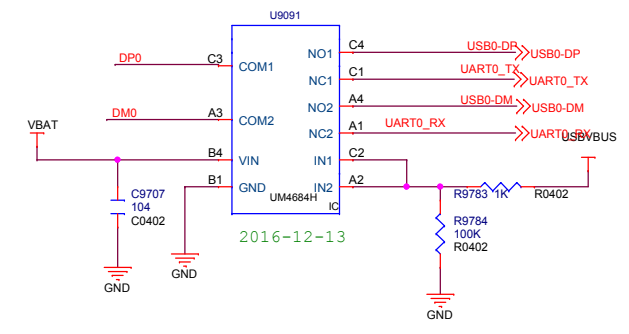
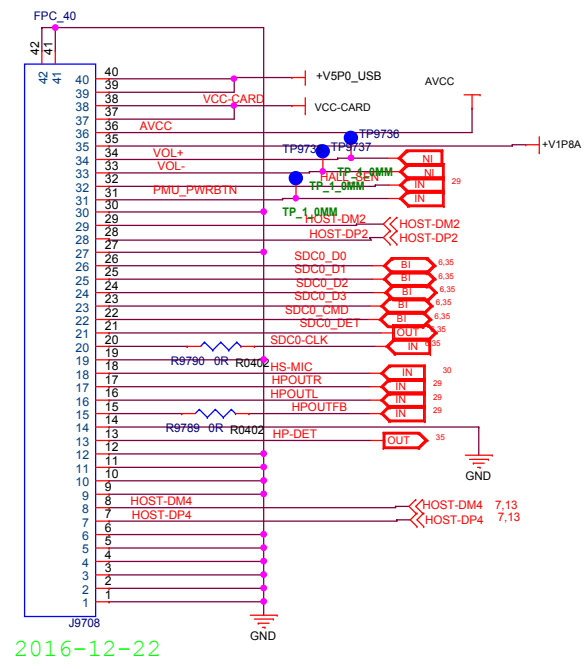
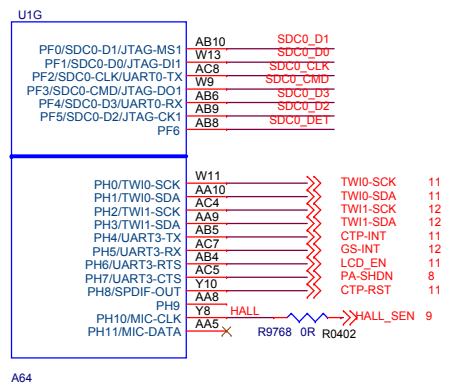
2016-12-20

SPEAKER

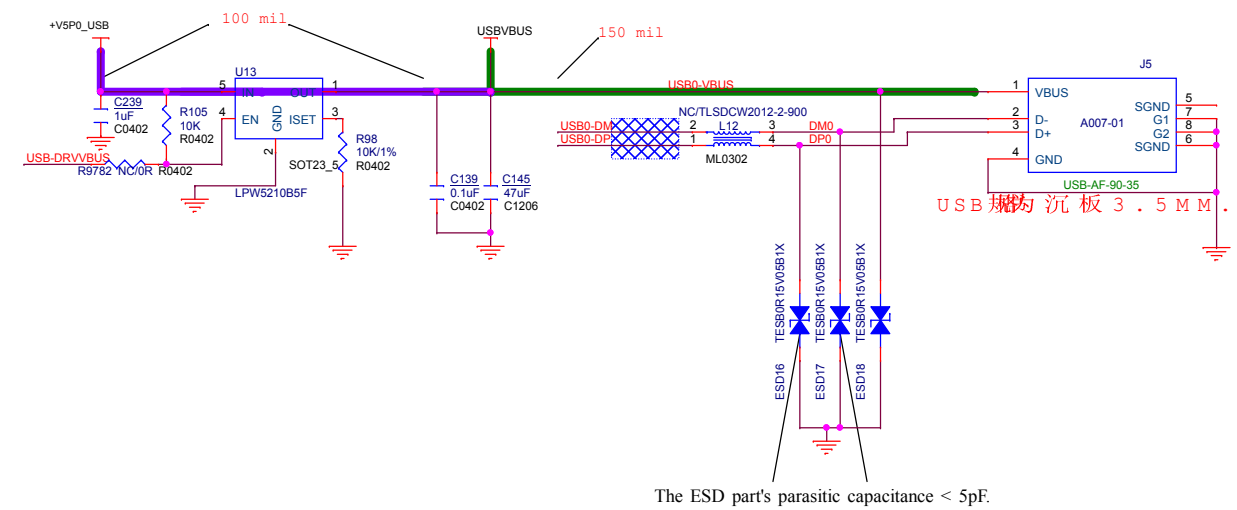


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T-CARD/USB

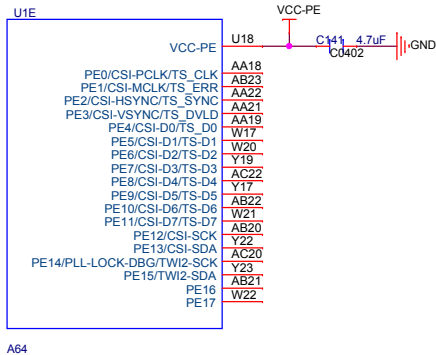


USB

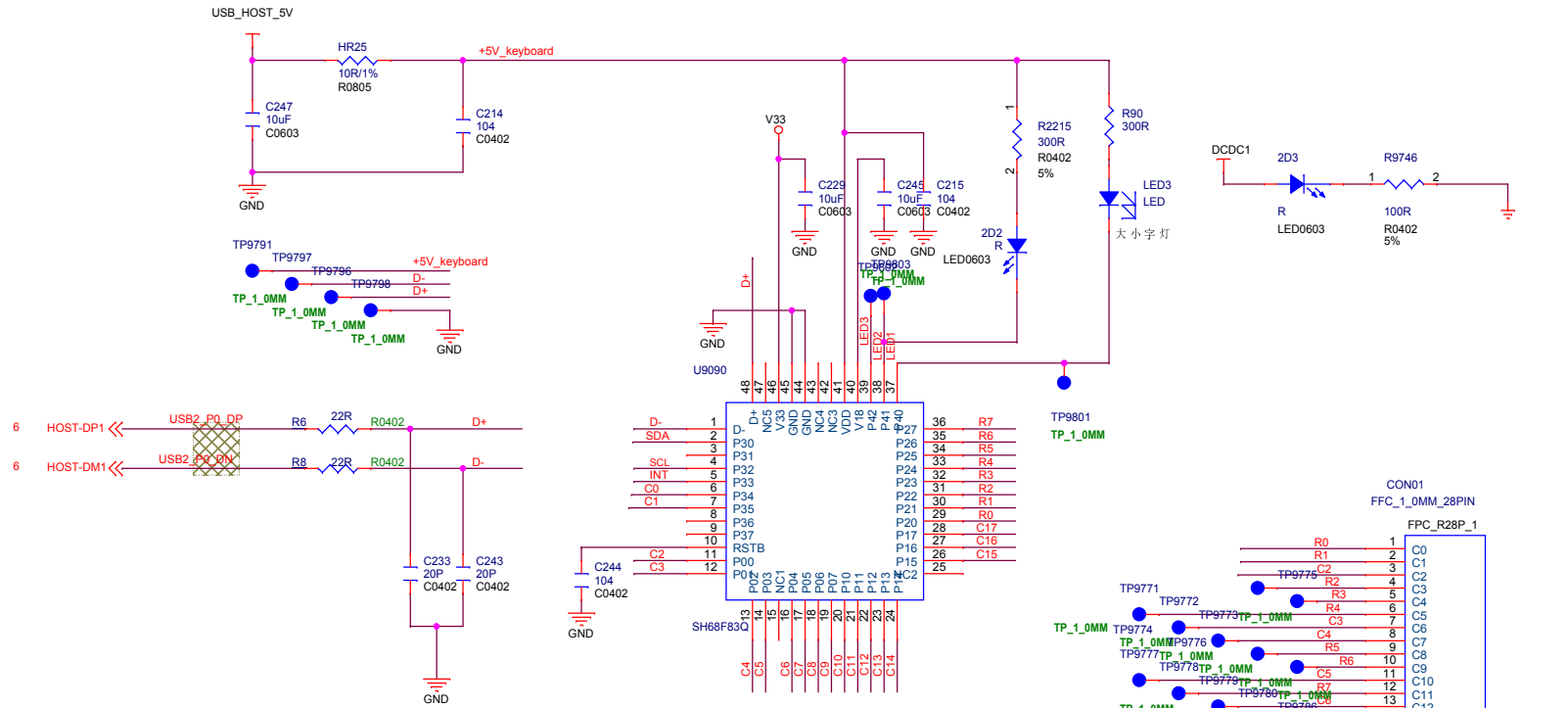


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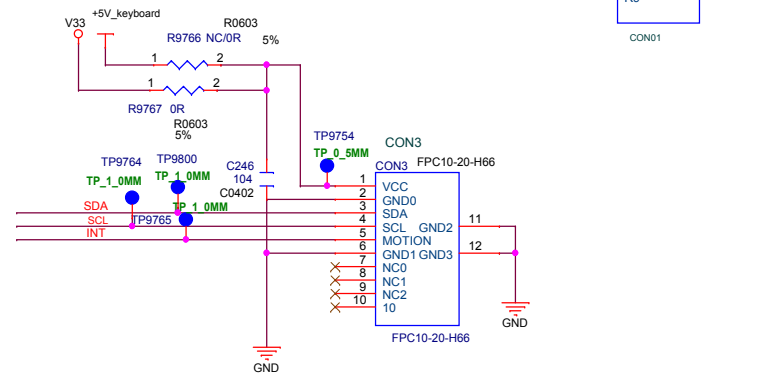
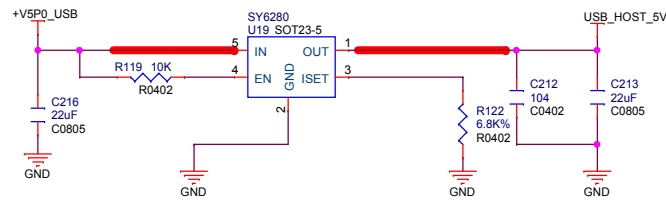
CAMERA



A64



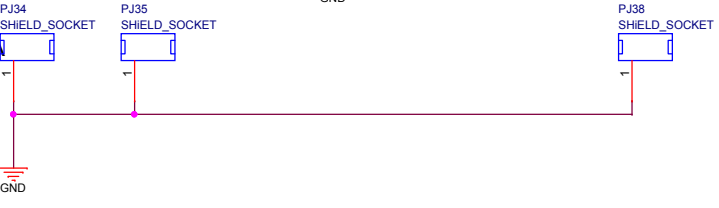
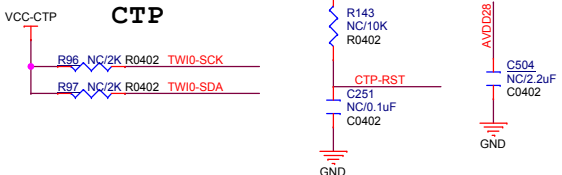
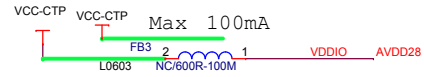
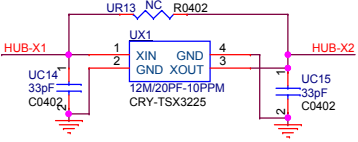
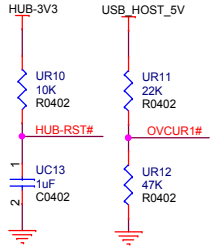
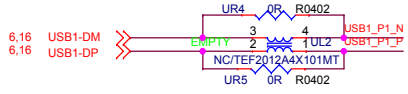
两个电刷开关 关 总共为 2A电源，不小 80mm 走线



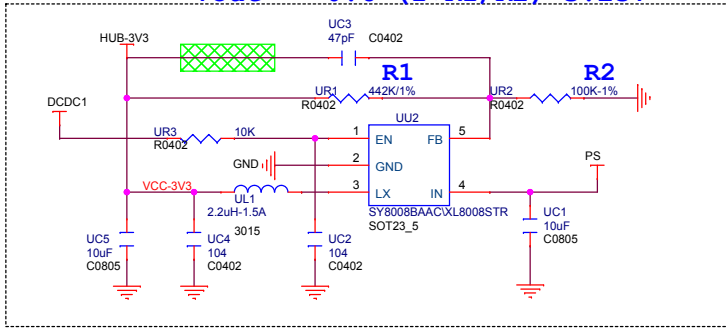
PINE64	
Title	PINEBOOK
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CTP

Differential pairs
Z0= 90 ohm +/-5 ohm



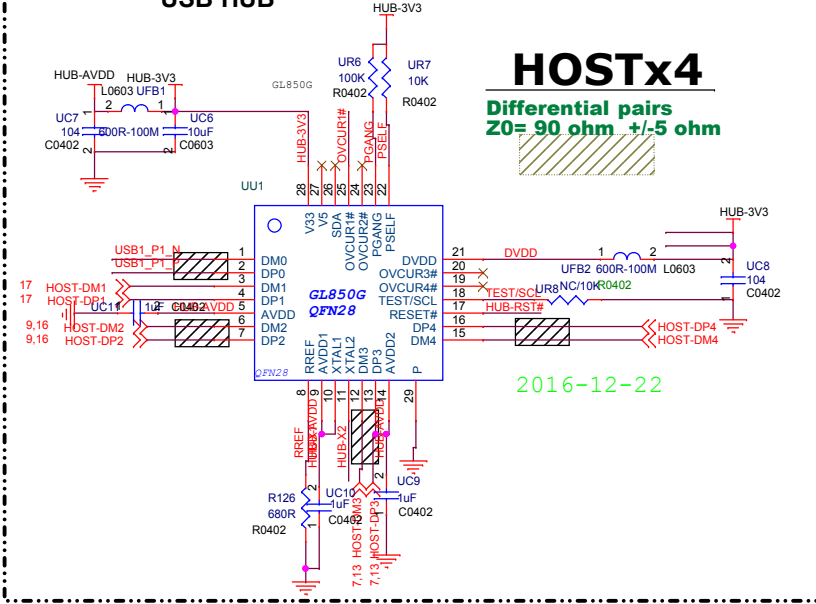
VCC-3V3
Vout = 0.6 * (1+R1/R2) = 3.25V



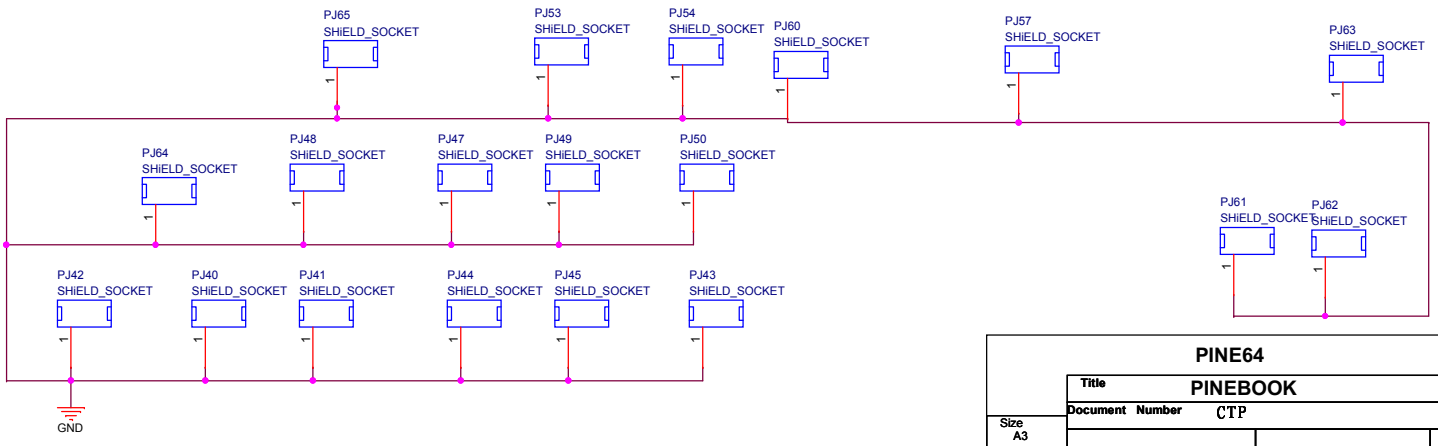
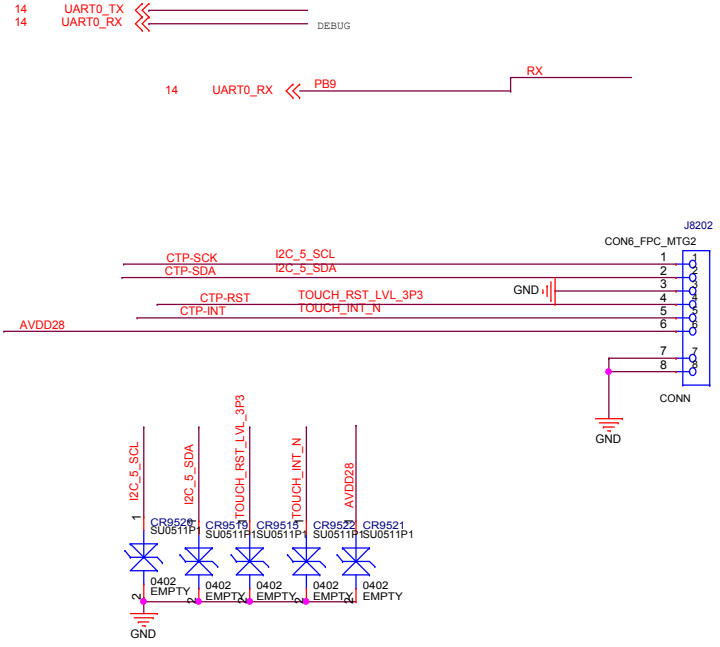
USB HUB_USB_CONN

USB HUB

HOSTx4
Differential pairs
Z0= 90 ohm +/-5 ohm



2016-12-22

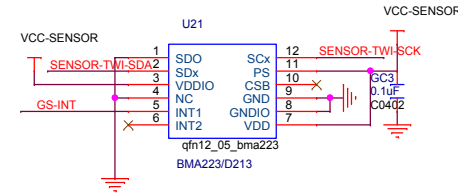
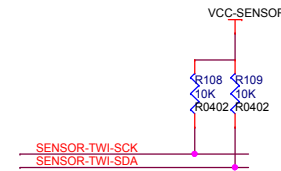


PINE64	
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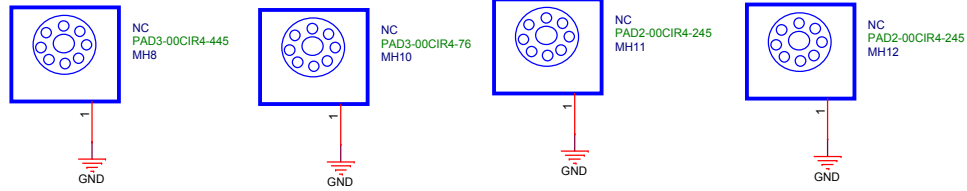
SENSORs/MT/KEY

SENSOR

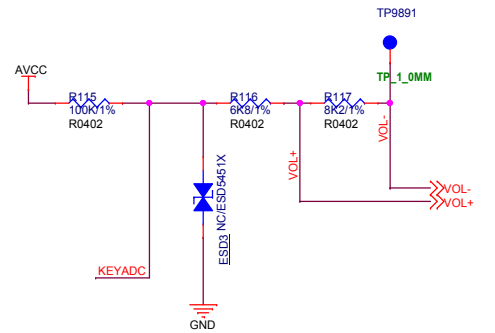
Motor



G-SENSOR IC 屛行 放置, 放在屛的 左上方, 右上方 放置 4 脚。



KEY

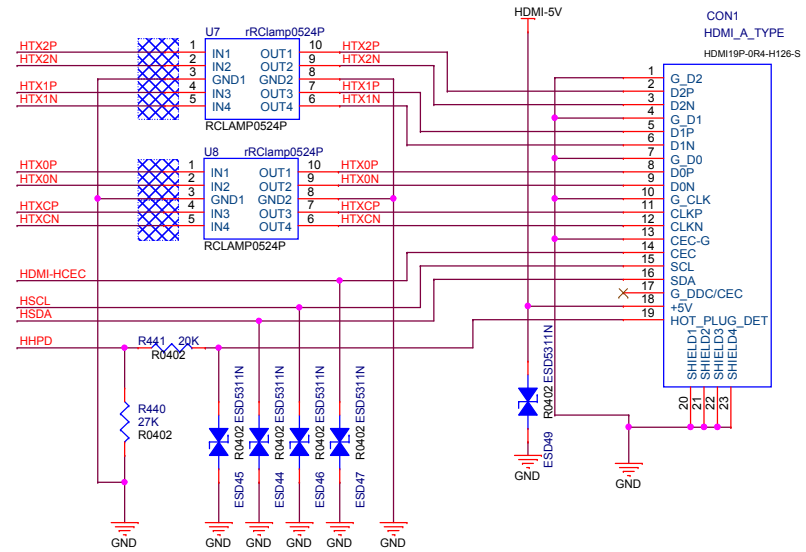
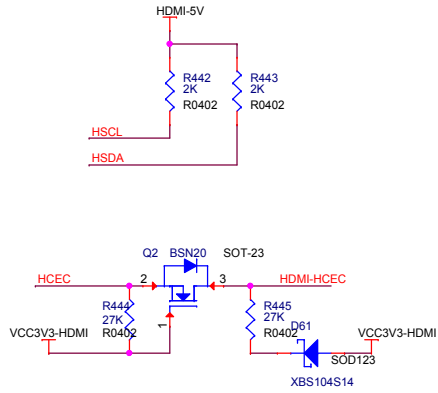


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HDMI

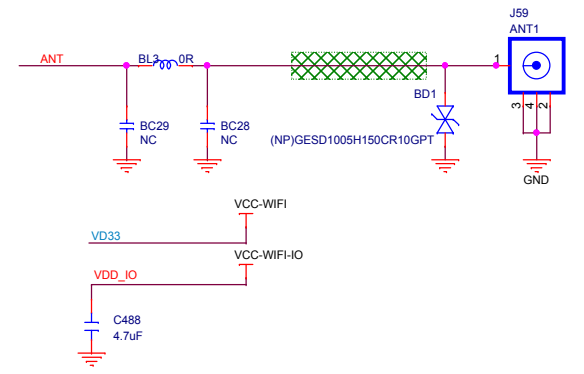
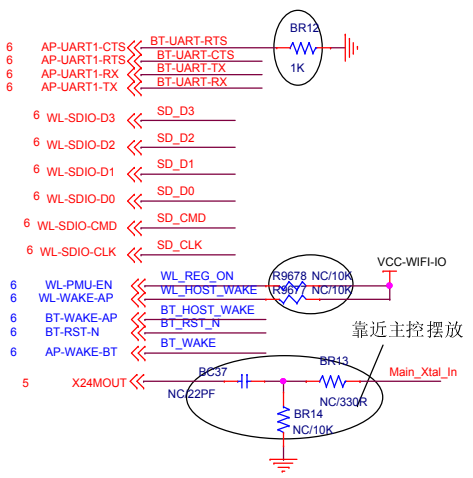
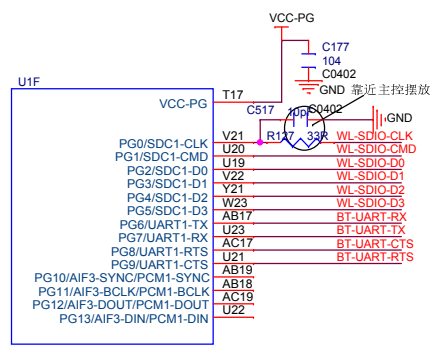


Differential pairs
Z0= 100 ohm



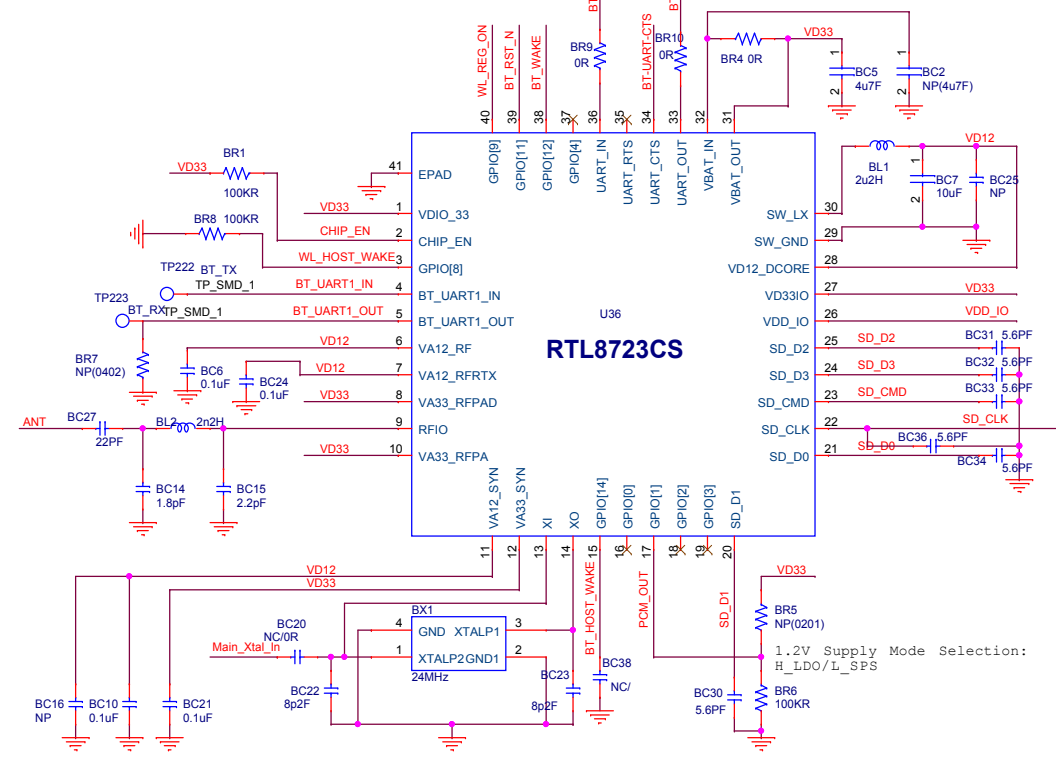
PINE64	
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RTL8703AS/8723BS-COB



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VCC-WIFI-IO



GPIO[8]/EXT_WOL/WL_WAKE_HST/WL_LED/BT_LED/ANTSEL2/ SD_OB_INT
 BT_UART1_IN/BT_3DD_SEL/BT_GPIO/BT_LED/ ANTSEL1/ANTSEL1
 BT_UART1_OUT/BT_3DD_SYNC/BT_GPIO/(WL_WAKE_HST)/TEST_MD_SEL/ANTSEL0
 GPIO[9]/WL_DISn/EXT_WOLO
 GPIO[11]/BT_DISn/ BT_EXT_WOL
 GPIO[12]/HST_WAKE_DEV/LTE_COEX/FM_I2S_SDOUT/WPS
 GPIO[4]/EEPROM_SEL/WL_LTE_UART_OUT/BT_GPIO(BT_WAKE_HST)/FM_I2S_WS/FM_I2C_SDA
 GPIO[14]/DEV_WAKE_HST/(WL_WAKE_HST)
 GPIO[0]/ICFG0/BT_GPIO/PCM_IN

Supply Voltage Options

Part	VBAT==3.3V	VBAT=3.3~5.5V (Battery)
BR4	0R	NP
BR1	100KR	NP(CHIP_EN: Off Module Pull High)
BC2	NP	4.7uF

PINE64

Title: **PINEBOOK**

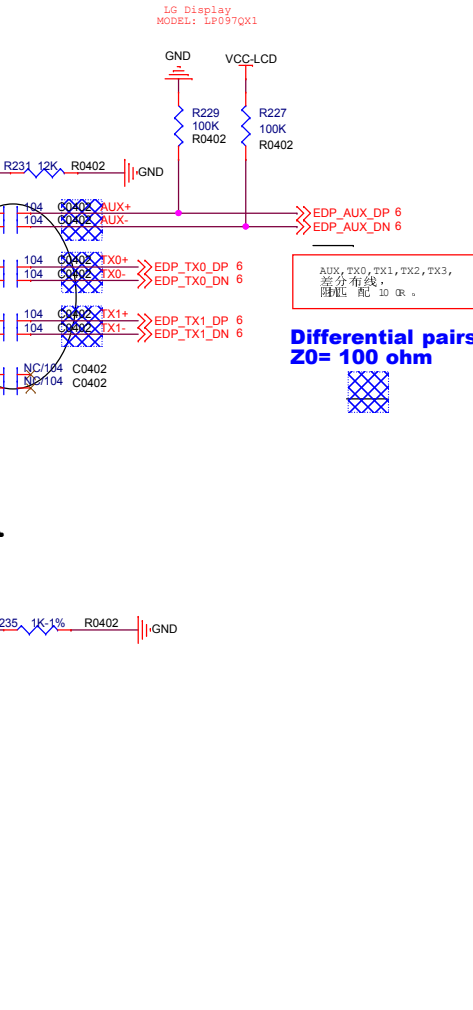
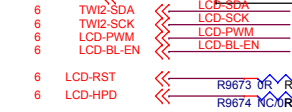
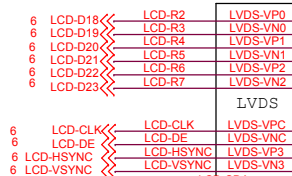
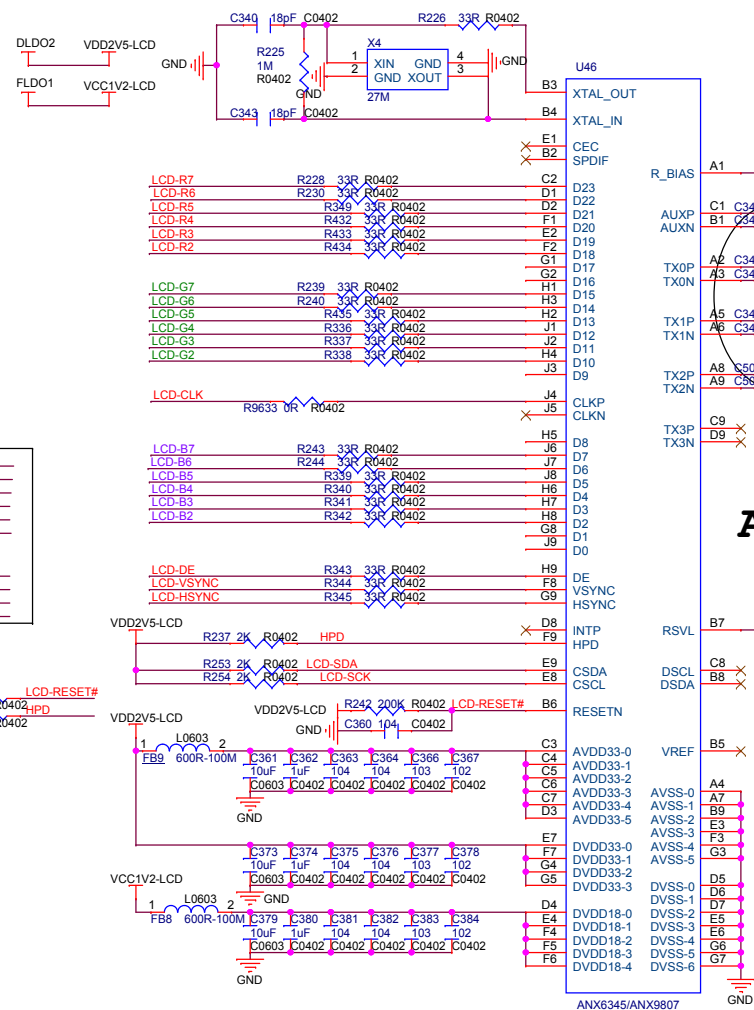
Document Number: **WIFI+BT**

Sps: **A3**

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LCD-eDP-TP

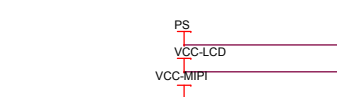
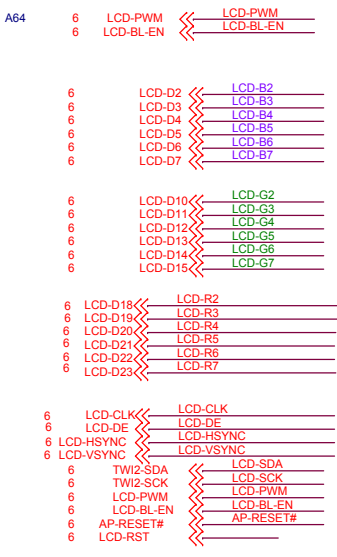
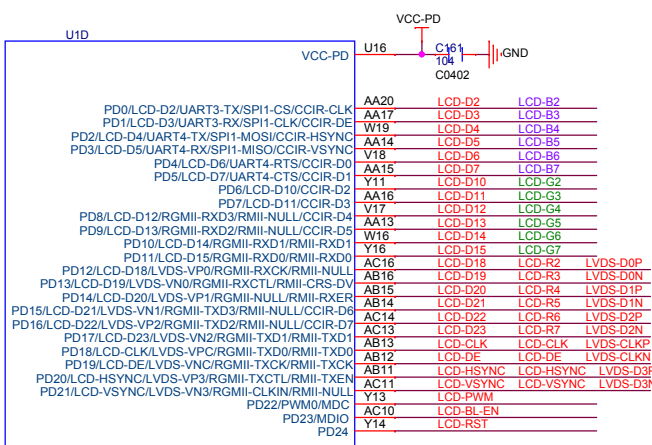


L6 Display
MODEL: LP097Qx1

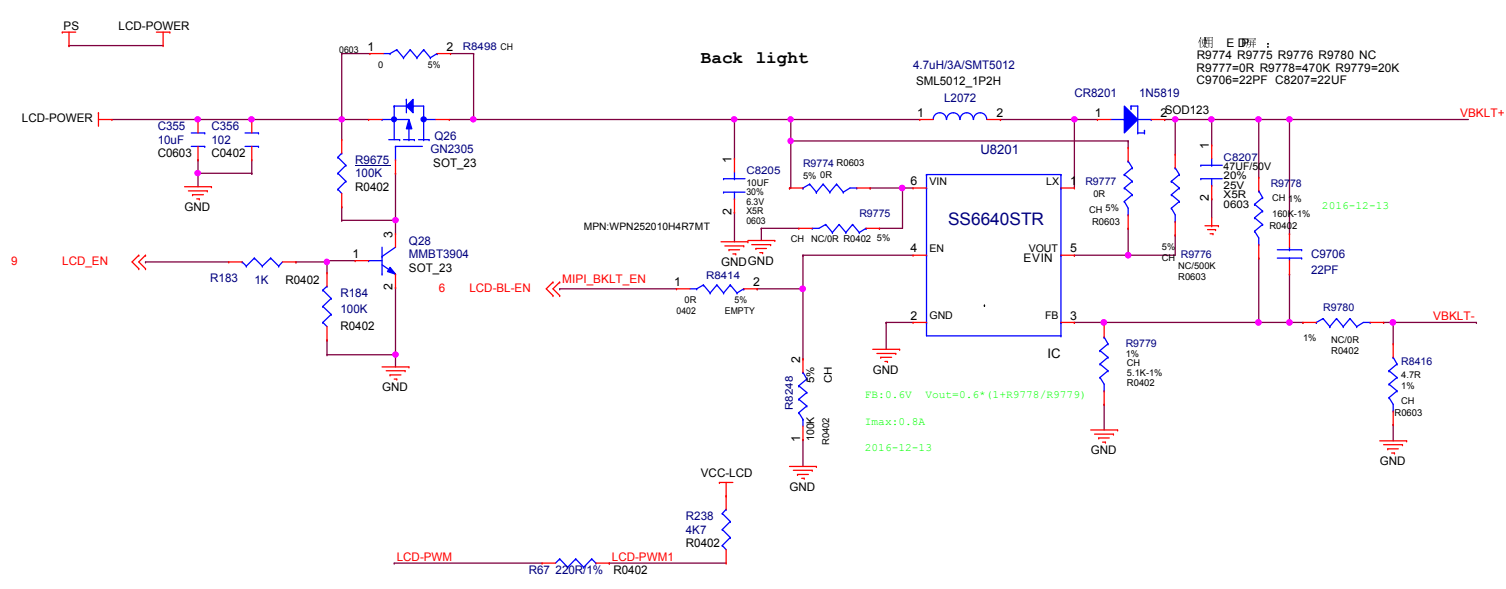
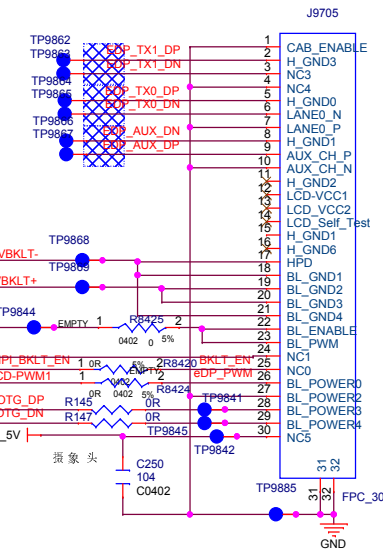
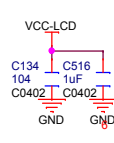
AUX, TX0, TX1, TX2, TX3,
差分有線;
阻抗 配 10 ohm

**Differential pairs
Z0= 100 ohm**

EDP/MIPI



Differential pairs
Z0= 100 ohm



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