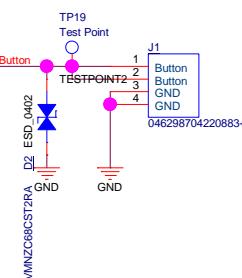
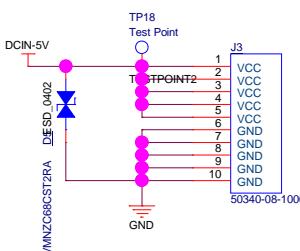


Button

3 Button

**PCB Power Assay****USB-DEVICE**

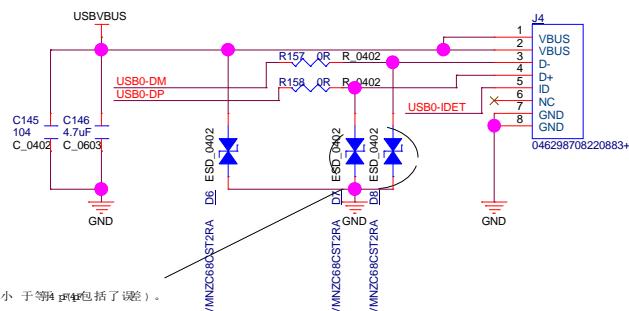
2 USB0-DM
2 USB0-DP
2 USB0-IDET

VCC-3V3
R99
10K
R_0402

USB0-IDET

Differential pairs
 $Z_0 = 90 \text{ ohm}$

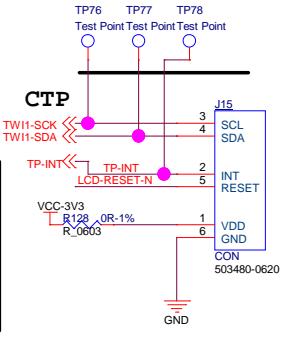
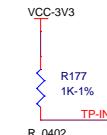
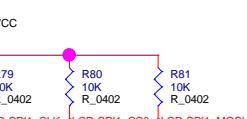
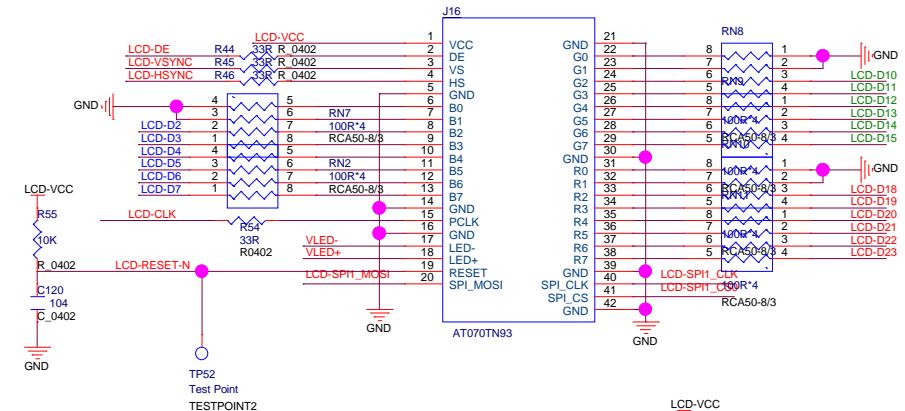
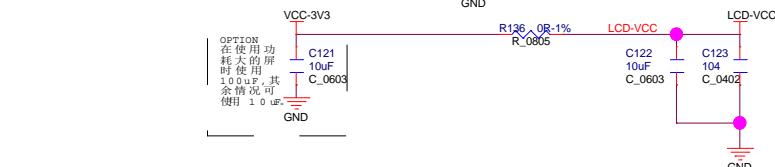
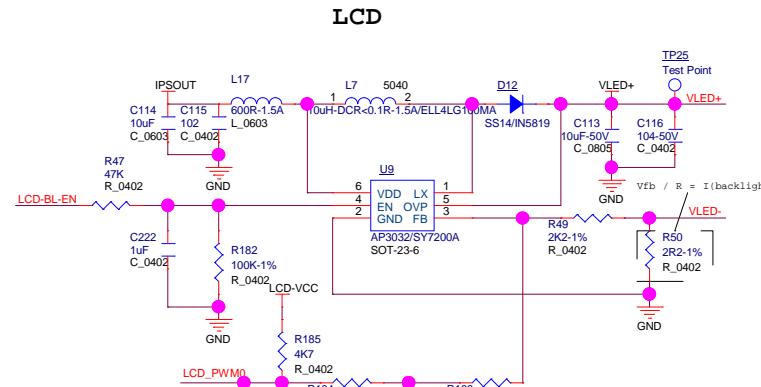
D^+ / D^- 上的 ESD箝位电容 小于等同 pair(包括了误差)。

M1
Bad MarkM2
Bad Mark

DISPLAY

2 LCD-CLK
2 LCD-DE
2 LCD-VSYNC
2 LCD-HSYNC
2 LCD-D1
2 LCD-D6
2 LCD-D5
2 LCD-D3
2 LCD-D2
2 LCD-D15
2 LCD-D14
2 LCD-D13
2 LCD-D12
2 LCD-D11
2 LCD-D10
2 LCD-D23
2 LCD-D22
2 LCD-D21
2 LCD-D20
2 LCD-D19
2 LCD-D18
2 LCD-BL-EN
2 LCD-PWM0
2 LCD-RESET-N

2 LCD-SPI1_CS0
2 LCD-SPI1_CLK
2 LCD-SPI1_MOSI



电容屏信号连接示意图

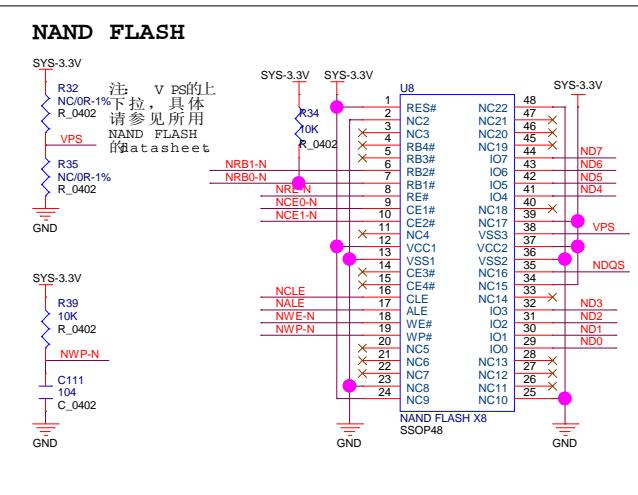
FLASH/CARD

2 ND[7:0] NDQS

2 NRB1-N NRB0-N
2 NRE-N NRE-N
2 NCE0-N NCE0-N
2 NCE1-N NCE1-N
2 NCL-E NCL-E
2 NALE NALE
2 NWE-N NWE-N

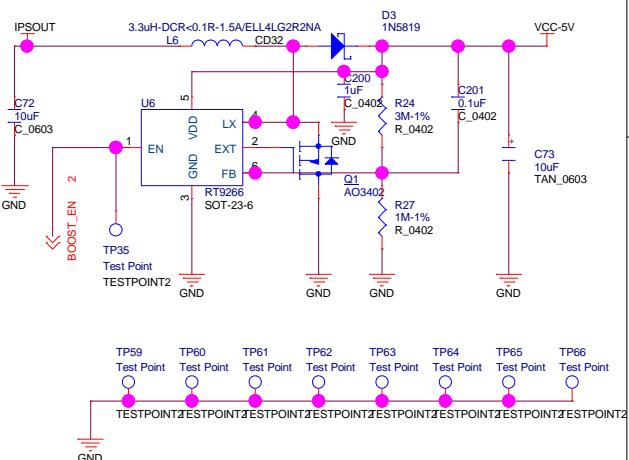
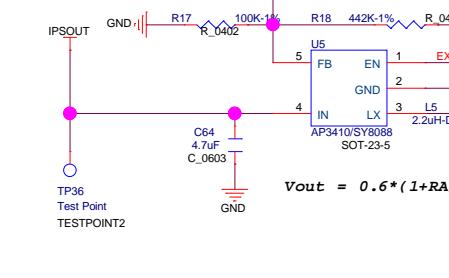
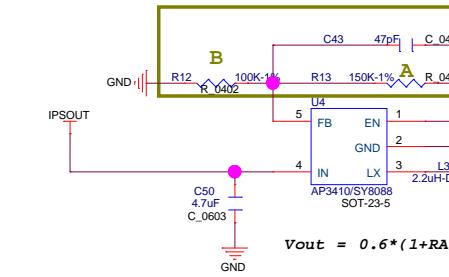
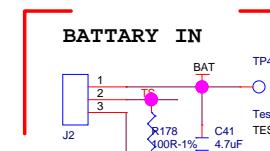
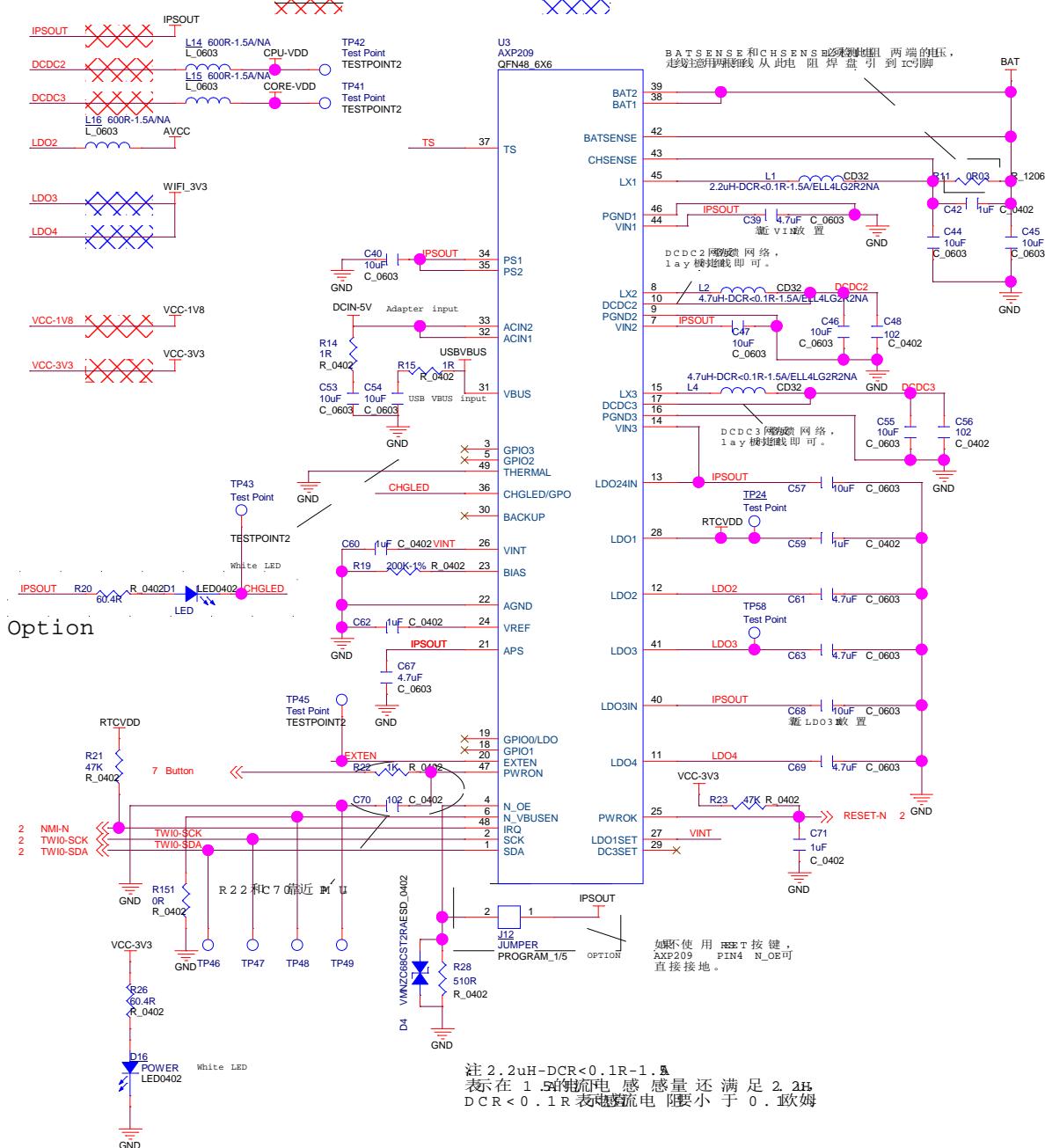
SYS-3.3V
C204 1uF C207
104 C0402
GND

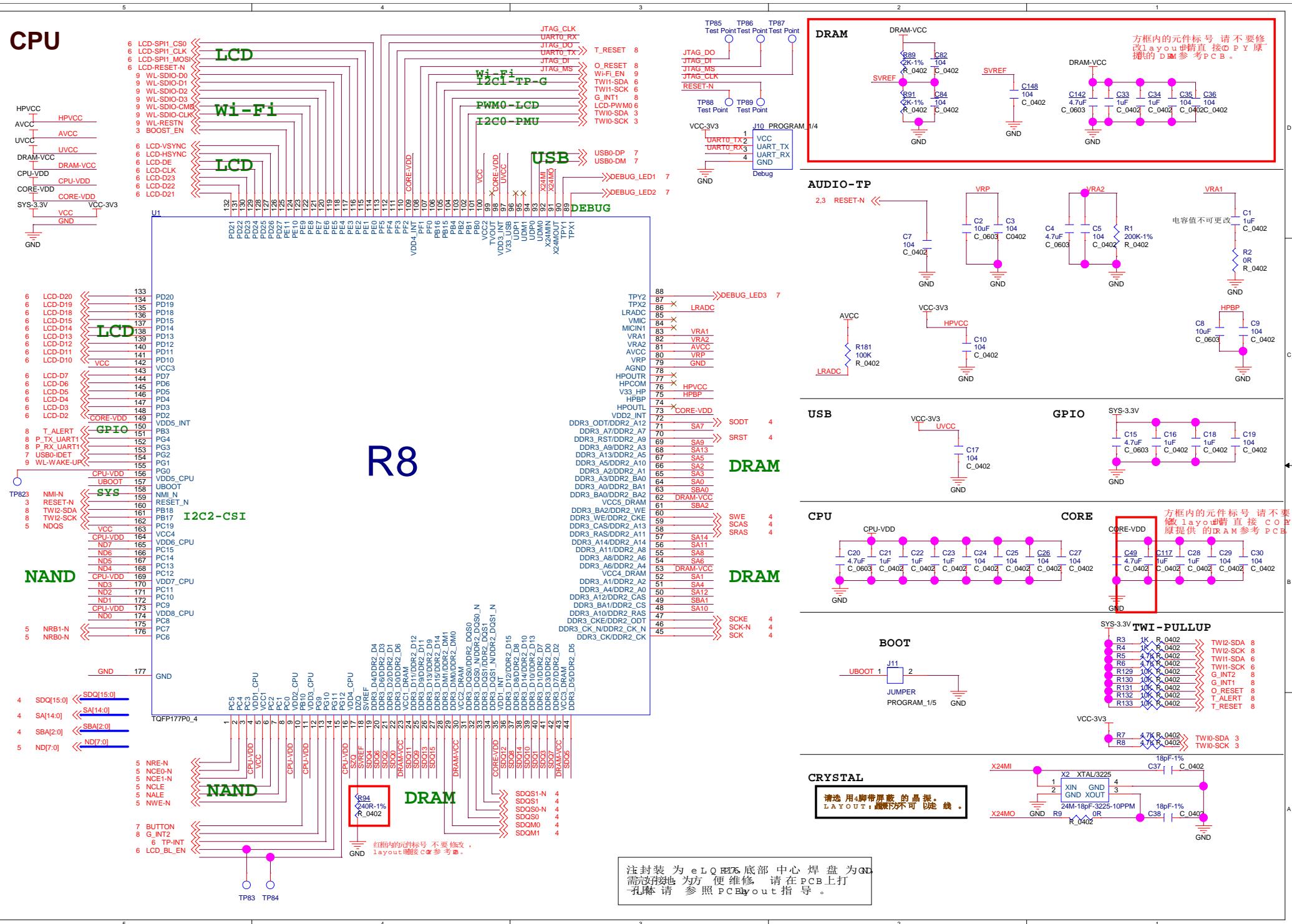
TP79 Test Point
TESTPOINT2
SYS-3.3V
C208 1uF C209
104 C0402
GND
TP80 Test Point
TESTPOINT2



POWER

POWER LINE:Width>=80mil POWER LINE:Width>=50mil





COVER

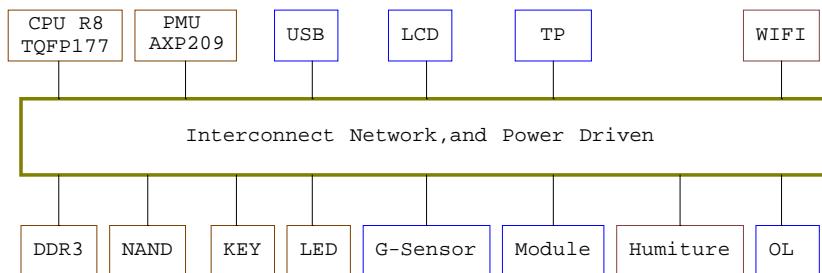
Schematics Index

Bran-Design

- 01 COVER
- 02 CPU
- 03 POWER
- 04 DDR3 16x1
- 05 FLASH
- 06 DISPLAY
- 07 PERIPHERALS
- 08 SENSOR
- 09 WI-FI
- Option:
- 10 BLE

特别提醒：
 1: PG0 / PG1 这两个IN脚
 具有 INPIW 功能。
 2: PMU的GPIO0/1/2这三个IN脚
 做GPIO-OUT功能。
 3: PG10 / PG11 / PG12 这三个IN脚
 的输出可改变。
 4: CSI-PCLK / CSI-MCLK这两个IN脚
 具有 INPIW 功能。
 5: CSI-HSYNC具有 INPIW 功能，
 不作他用途。

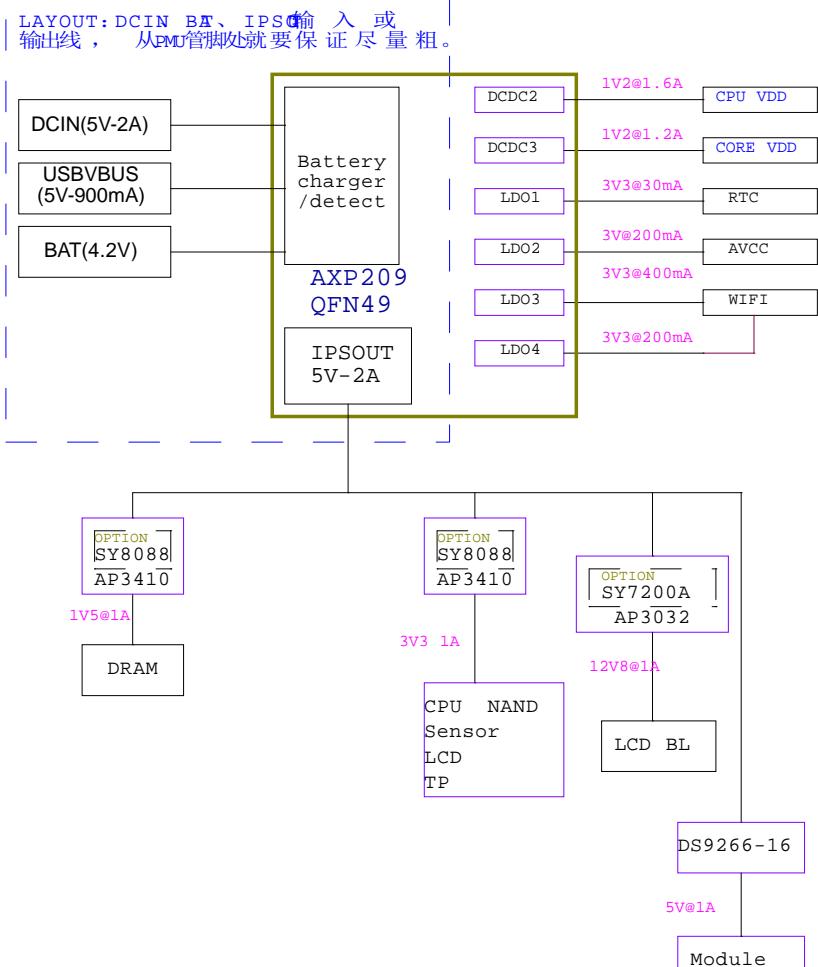
BLOCK



REVISION HISTORY

Revision	Description	Date	Drawn	Checked	Approved
Ver 1.0	Bran Main PCB ASSY	2016/6/19	Violet/Jemmey	Jemmey	
Ver 1.5	Bran Main PCB ASSY	2016/7/31	Jemmey	Jemmey/Violet	
Ver 2.0	Bran Main PCB ASSY	2016/8/11	Jemmey	Jemmey/Violet	

POWER TREE



DDR3 16x1

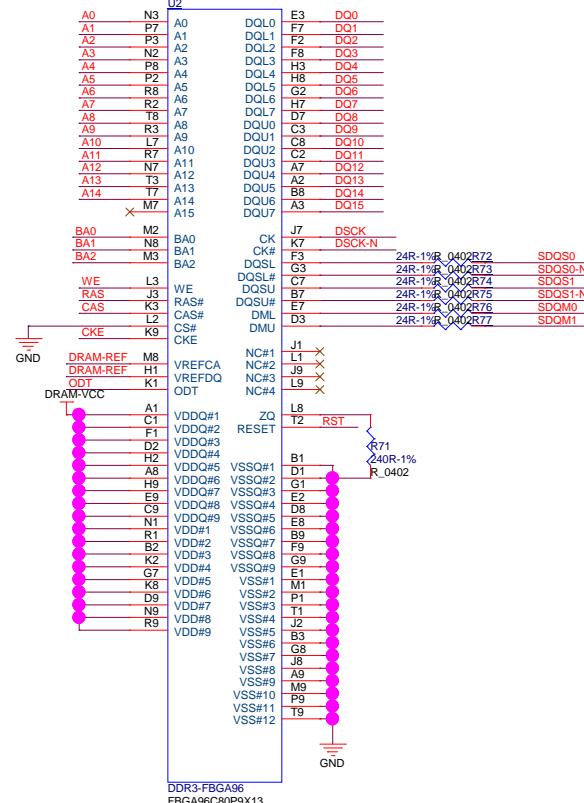
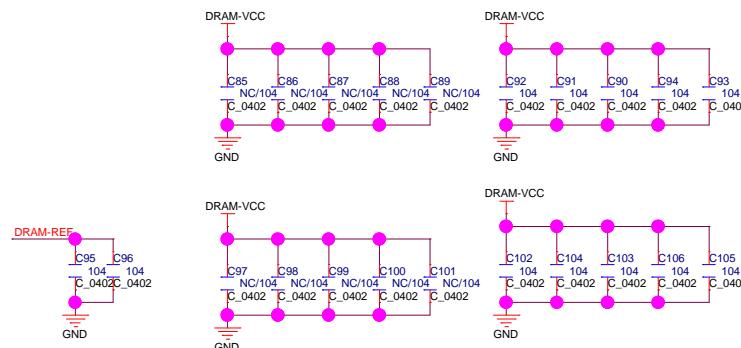
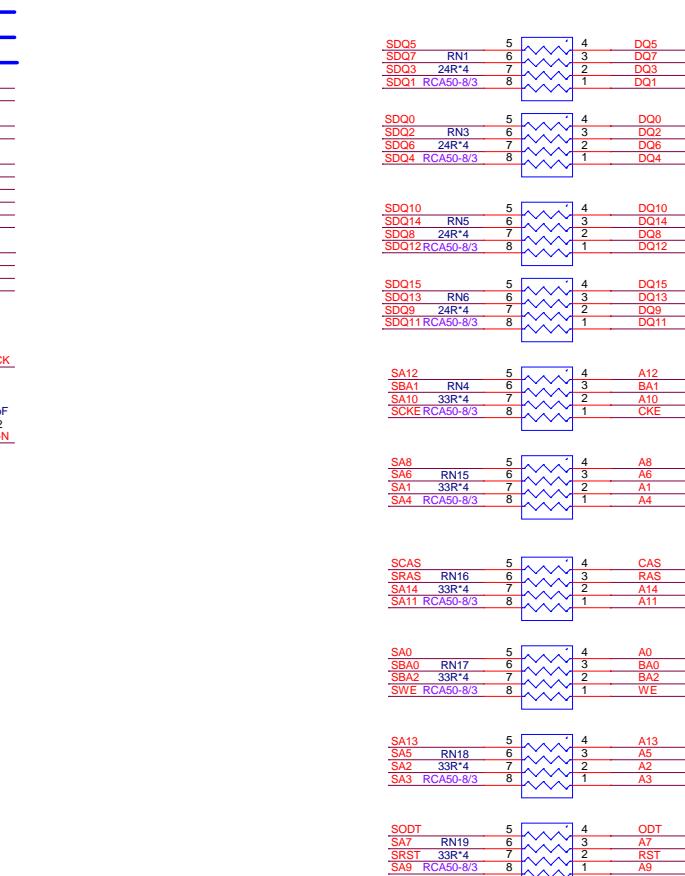
DDR3

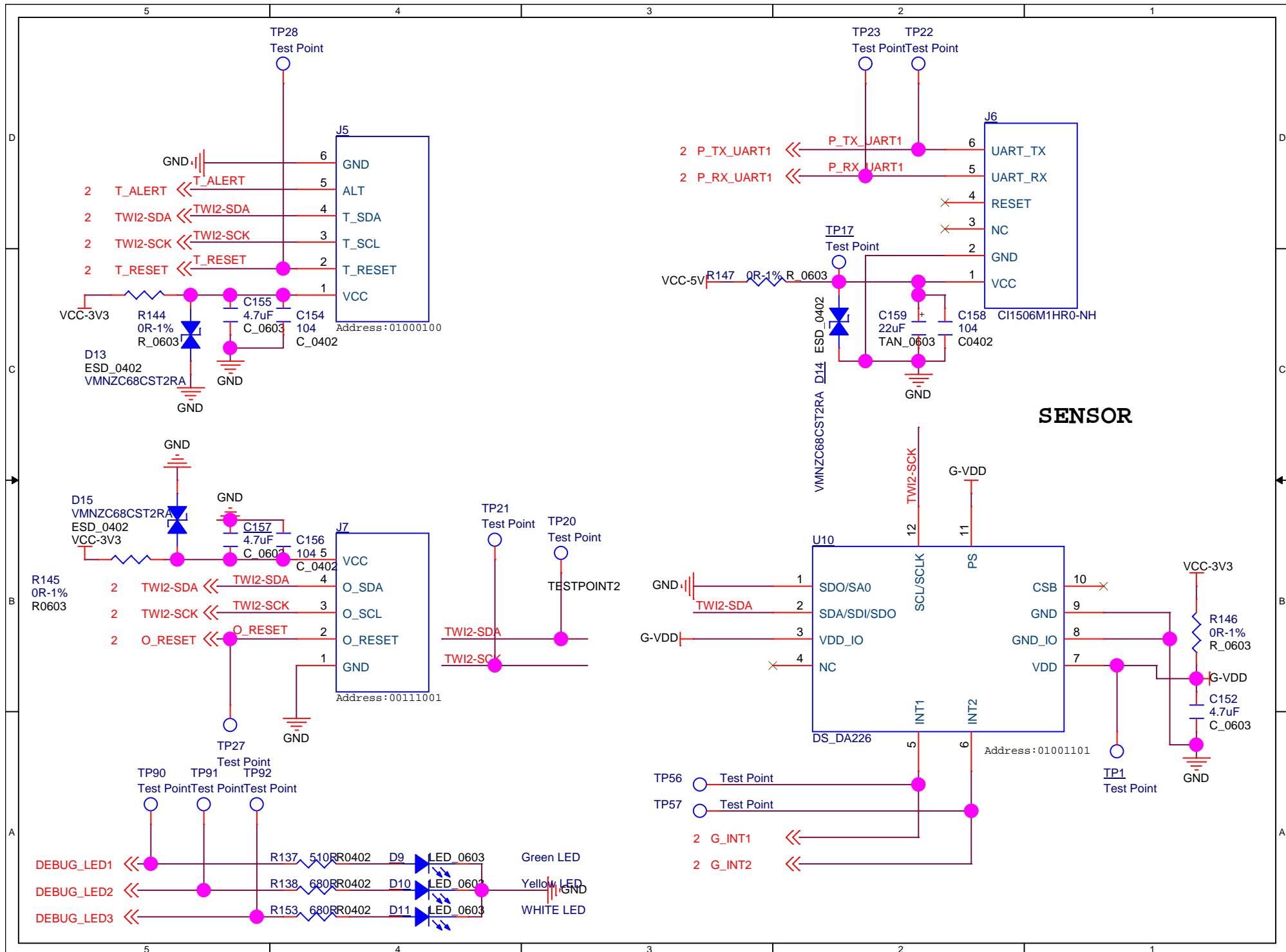
本页的元件标号请不要修改
layout时直接用原厂提供的DRAM参考PCB

2 SDQ[15:0] << SDQ[15:0]
2 SA[14:0] << SA[14:0]
2 SBA[2:0] << SBA[2:0]
2 SRST << SRST
2 SODT << SODT
2 SCK << SCK
2 SCK-N << SCK-N
2 SDQM0 << SDQM0
2 SDQM1 << SDQM1
2 SWE << SWE
2 SRAS << SRAS
2 SCAS << SCAS
2 SCKE << SCKE
2 SDQS0 << SDQS0
2 SDQS0-N << SDQS0-N
2 SDQS1 << SDQS1
2 SDQS1-N << SDQS1-N

SCK 24R-1% R65 DSCK
R_0402 C109 NC/10pF C_0402
SCK-N 24R-1% R68 DSCK-N
R_0402

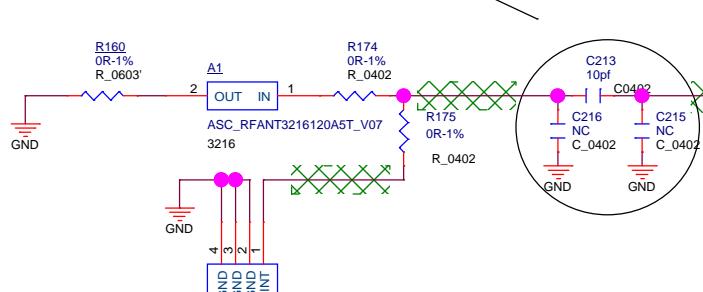
DRAM-VCC
R86 2K-1% C81 104
R_0402 C_0402
DRAM-REF
R90 2K-1% C83 104
R_0402 C_0402
GND





Wi-Fi

PI Matching Circuit for ANT
这部分电路根据天线的实际 情况进行调整。



PI Matching Circuit for ANT
这部分电路根据天线的实际 情况进行调整。

