

VERSION HISTORY

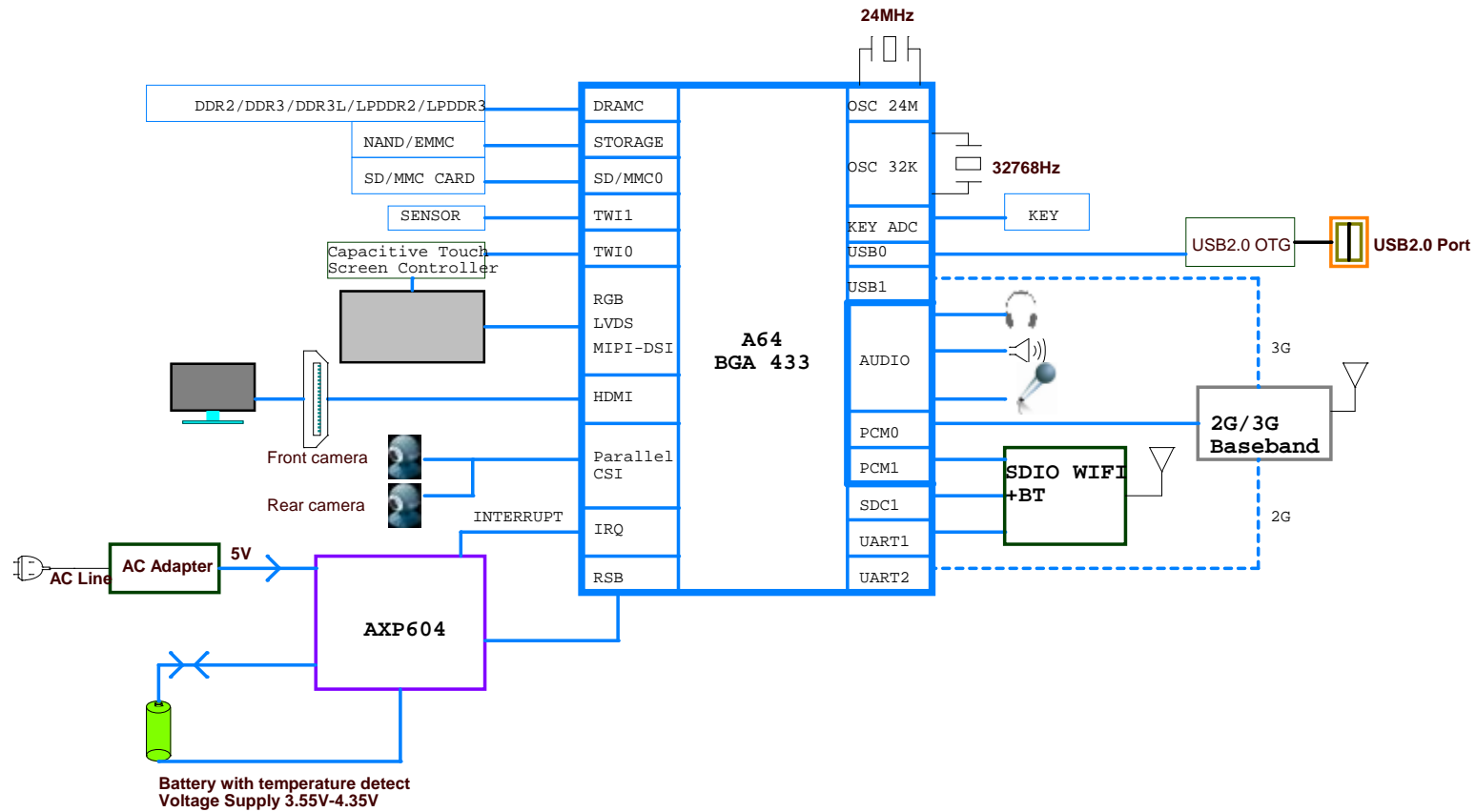
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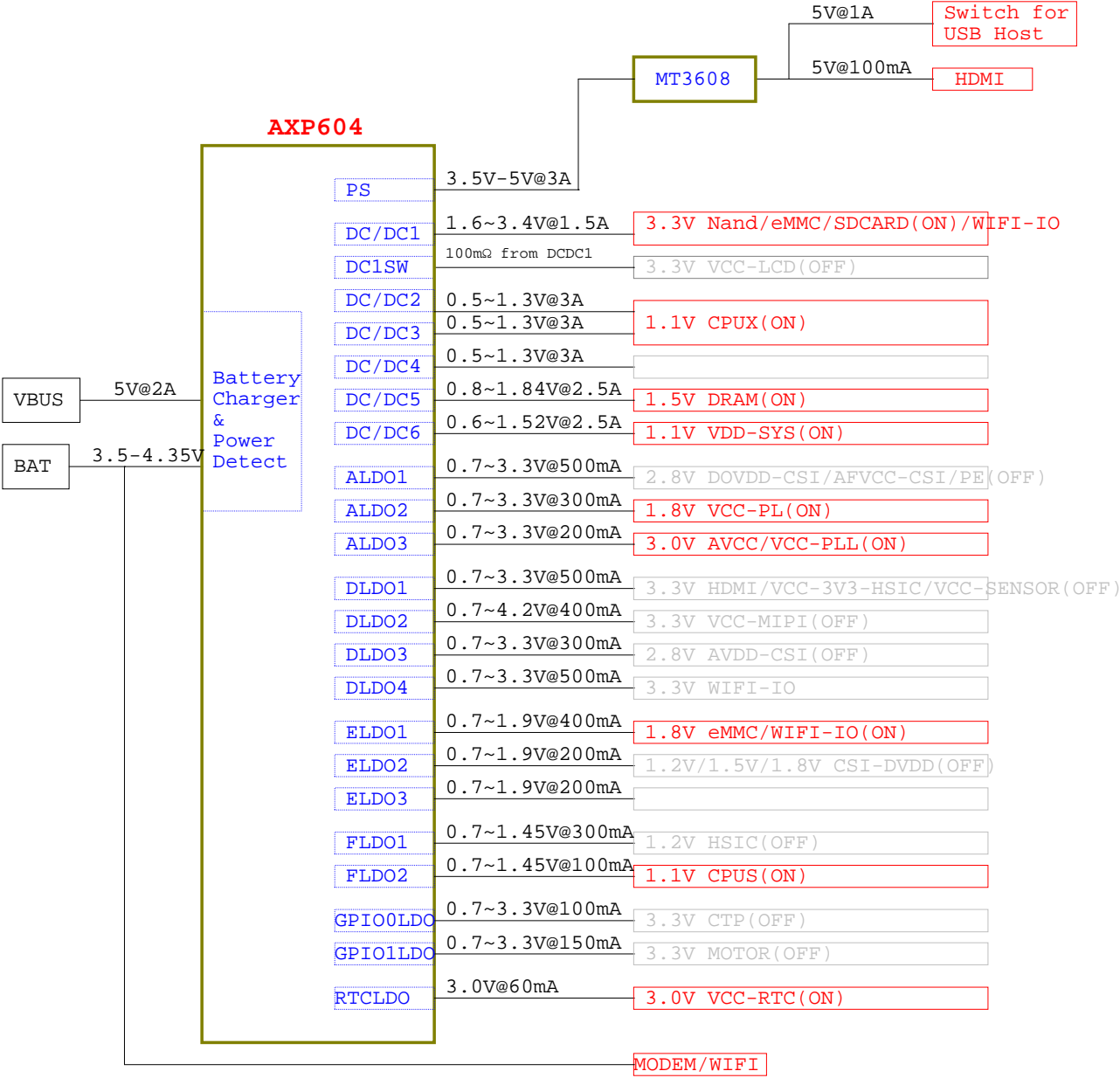
option
16 LPDDR3 FBGA178
17 LPDDR2/LPDDR3
18 MODEM-3G

Revision	Description	Date	Drawn	Checked	Approved
Ver 1.0	Releas version	2015-04-22			

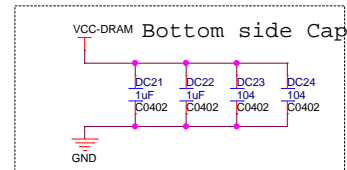
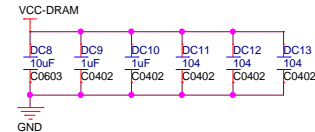
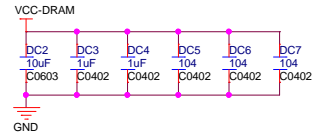
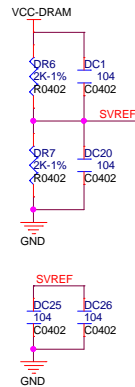
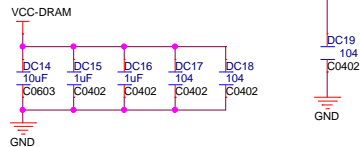
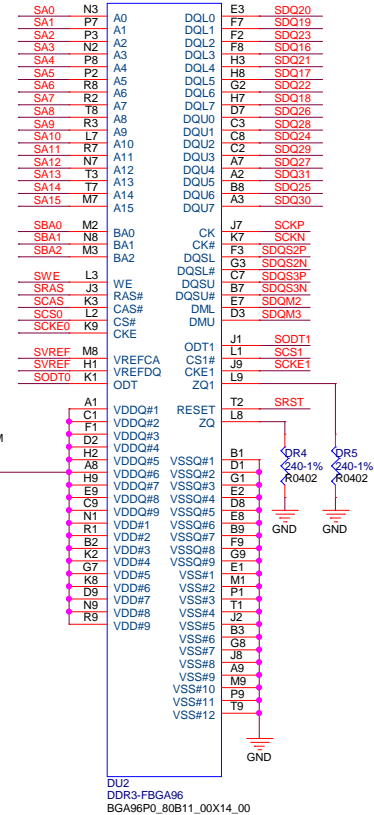
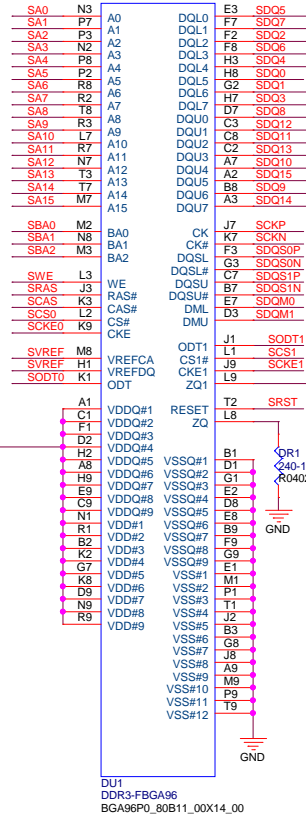
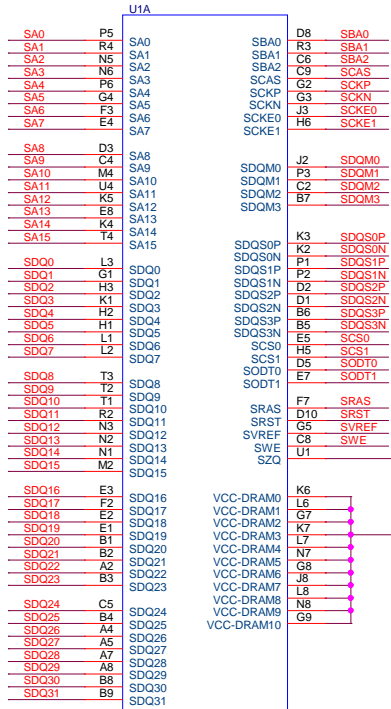
BLOCK DIAGRAM



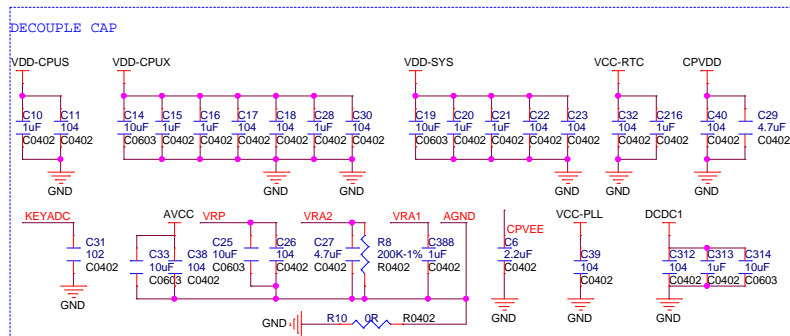
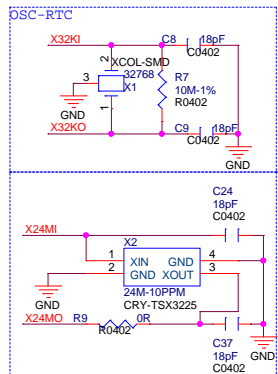
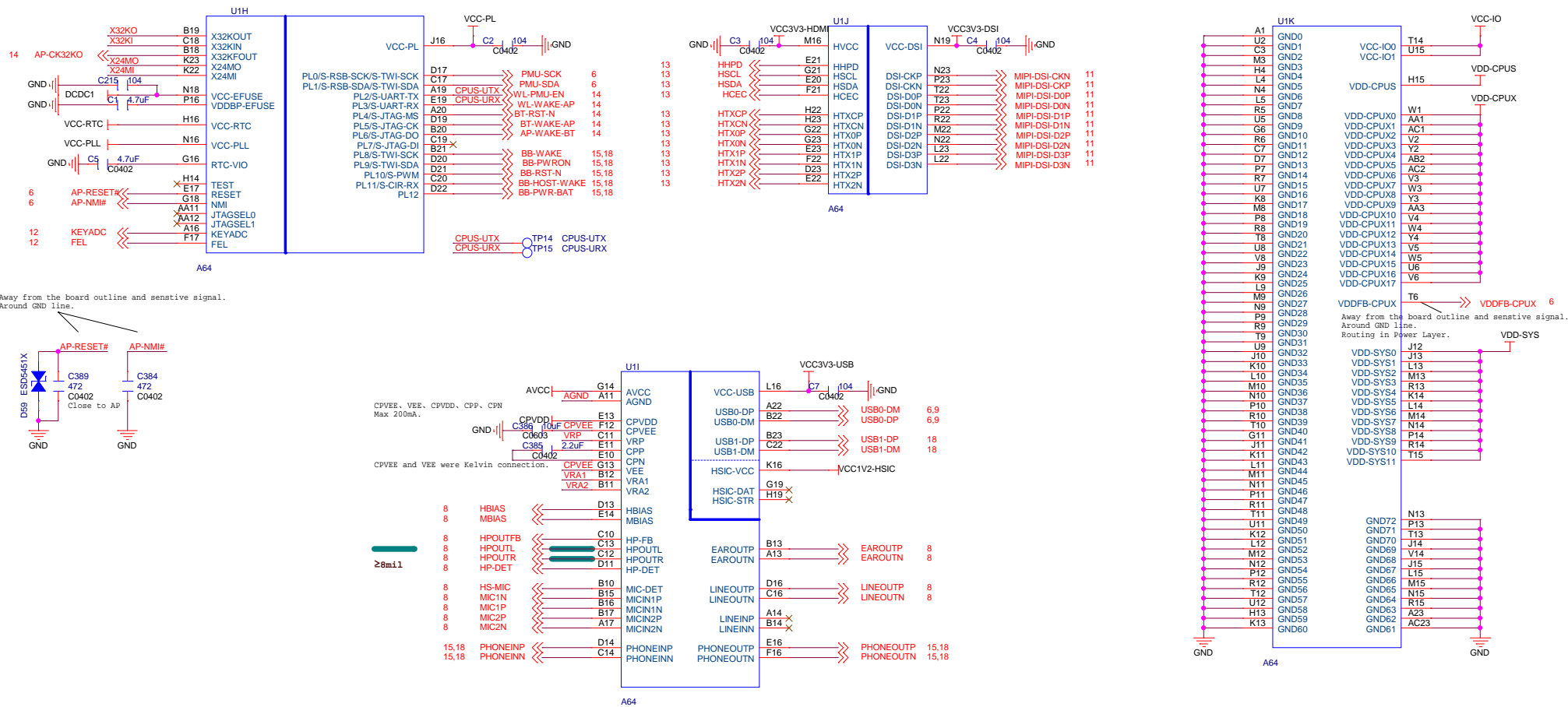
POWER TREE



DDR3 16x2

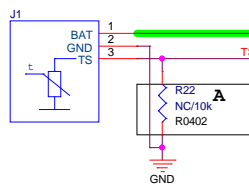


CPU

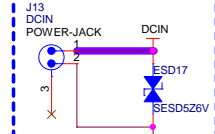


Power BAT

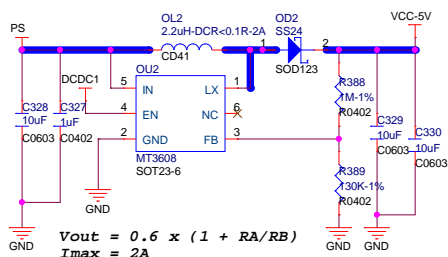
IF use the battery temperature sensor: A=NC
otherwise: A=10k



DCIN

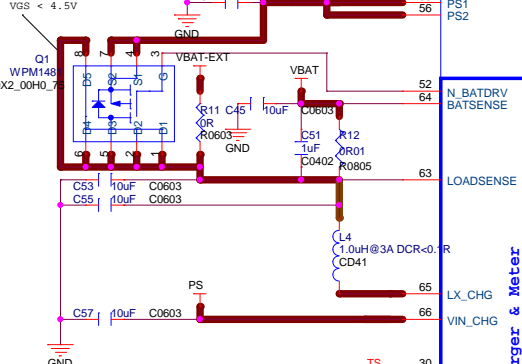


PS-5V

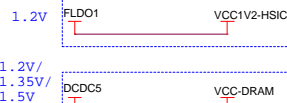
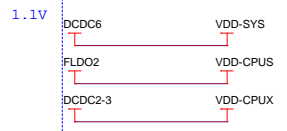


PMIC

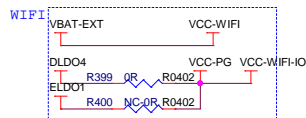
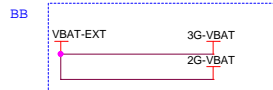
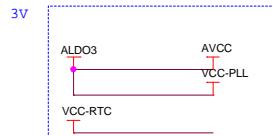
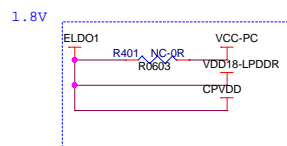
$V_{th} < 1.5V$
 $R < 30m\ \Omega$
 $V_{GS} < 4.5V$



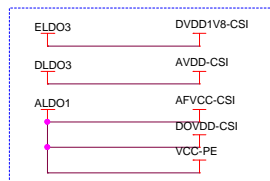
Charger & Meter



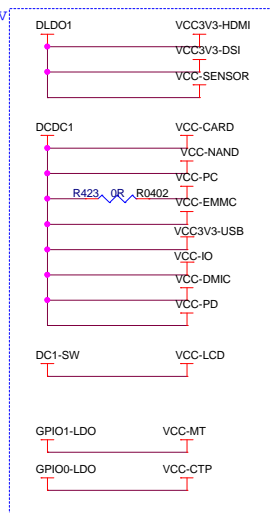
1.2V/
1.35V/
1.5V



CAMERA



3.3V



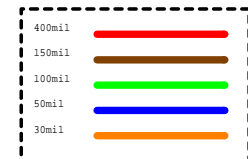
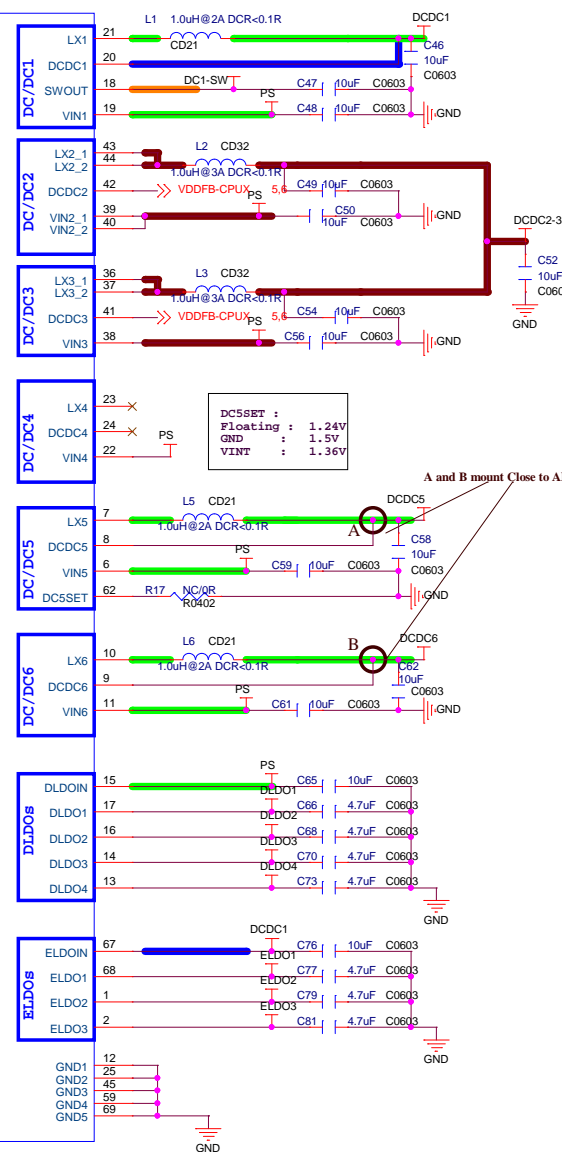
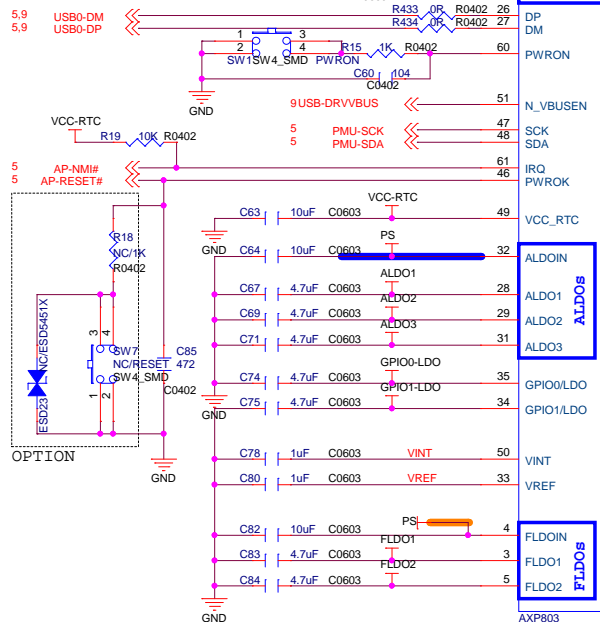
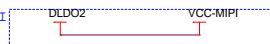
5V



PL



MIPI



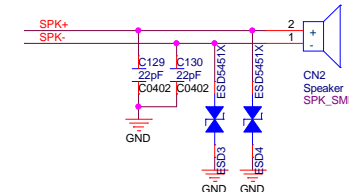
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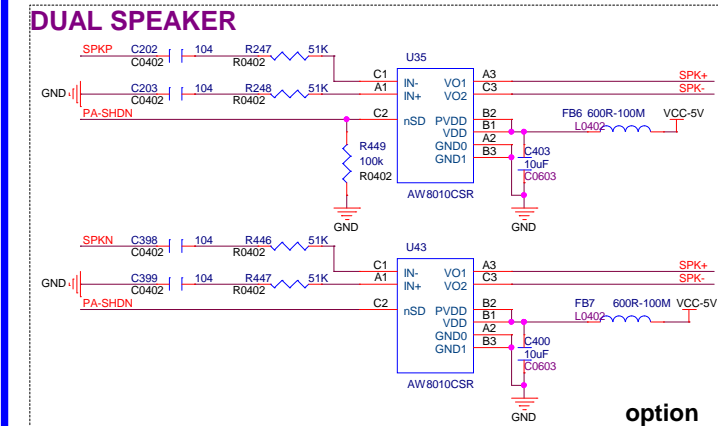
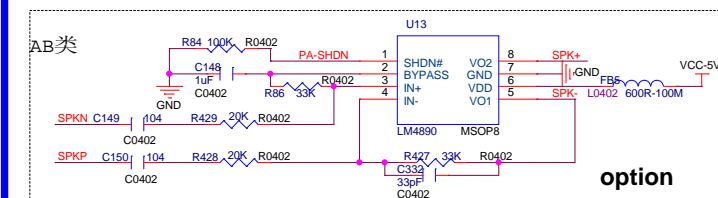
2



HP_JACK

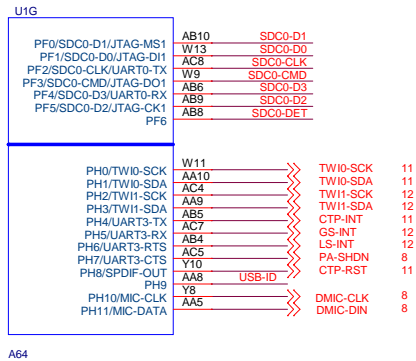
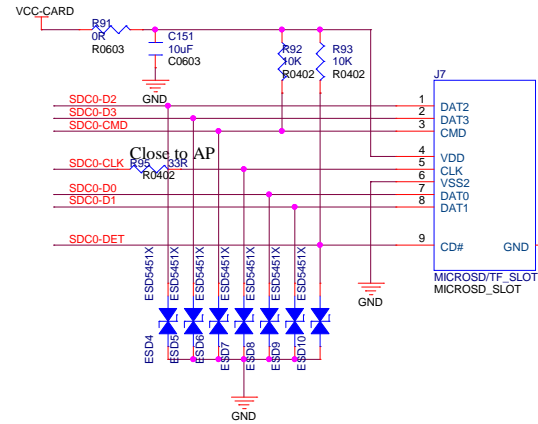


DUAL SPEAKER

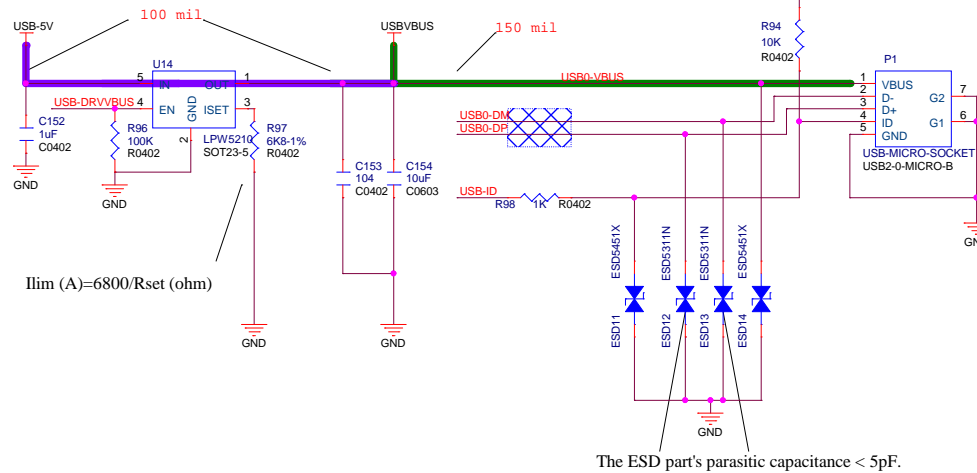
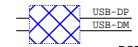


T-CADD/USB

T-CARD



USB



The ESD part's parasitic capacitance $< 5\text{pF}$.

U1E

VCC-PE

U18

C140 4.7uF

C402

GND

CS1-PCLK

CS1-MCLK

CS1-HSYNC

CS1-HSYNC

CS1-D0

CS1-D1

CS1-D2

CS1-D3

CS1-D4

CS1-D5

CS1-D6

CS1-D7

CS1-SCK

CS1-SDA

CS1-RST-R

CS1-STBY-R

CS1-RST-F

CS1-STBY-F

C132

NC

C404

GND

PE0/CS1-PCLK/TS_CLK

AB23

CS1-MCLK

AB22

CS1-HSYNC

PE2/CS1-HSYNC/TS_SYNC

AA21

CS1-HSYNC

PE3/CS1-HSYNC/TS_DVLD

AA19

CS1-D0

PE4/CS1-D0/TS-D0

W17

CS1-D1

PE5/CS1-D1/TS-D1

W20

CS1-D2

PE6/CS1-D2/TS-D2

Y19

CS1-D3

PE7/CS1-D3/TS-D3

AC22

CS1-D4

PE8/CS1-D4/TS-D4

Y17

CS1-D5

PE9/CS1-D5/TS-D5

AB22

CS1-D6

PE10/CS1-D6/TS-D6

W21

CS1-D7

PE11/CS1-D7/TS-D7

AB20

CS1-SCK

PE12/CS1-SCK

AC20

CS1-SDA

PE13/CS1-SDA

Y22

CS1-RST-R

PE14/PLL-LOCK-DBG/TWIZ-SCK

Y23

CS1-STBY-R

PE15/TWIZ-SDA

AB21

CS1-RST-F

PE17

W22

CS1-STBY-F

VCC-PE
AVDD-CSI
DOVDD-CSI
DVDD1V8-CSI
AFVCC-CSI

Pin connection diagram for the GC2035 200W camera module. The diagram shows the connection between the camera's pins and the board's pins. The camera pins are labeled on the left, and the board pins are labeled on the right. The connections are as follows:

- CSI-D7 (8) to R6 (33R*4)
- CSI-D6 (7) to R6 (33R*4)
- CSI-D5 (6) to R6 (33R*4)
- CSI-D4 (5) to R6 (33R*4)
- CSI-D0 (8) to R7 (33R*4)
- CSI-D3 (7) to R7 (33R*4)
- CSI-D1 (6) to R7 (33R*4)
- CSI-D2 (5) to R7 (33R*4)
- CSI-STBY-R (1) to CON2 (25)
- CSI-SDA (2) to CON2 (26)
- AVDD-CSI (3) to CON2 (25)
- CSI-SCK (4) to CON2 (26)
- CSI-RST-R (5) to CON2 (26)
- CSI-VSYNCR (6) to CON2 (26)
- CSI-HSYNCR (7) to CON2 (26)
- DOVDD-CSI (8) to CON2 (26)
- DVDD1V8-CSI (9) to CON2 (26)
- CSI-VSYNCR (10) to CON2 (26)
- CSI-HSYNCR (11) to CON2 (26)
- NC (12) to CON2 (26)
- HSYNCR (13) to CON2 (26)
- DOVDD (14) to CON2 (26)
- D9 (15) to CON2 (26)
- MCLK (16) to CON2 (26)
- D5ND (17) to CON2 (26)
- D5 (18) to CON2 (26)
- PCLK (19) to CON2 (26)
- D6 (20) to CON2 (26)
- D2 (21) to CON2 (26)
- D3 (22) to CON2 (26)
- D4 (23) to CON2 (26)
- AF_VDD (24) to CON2 (26)
- AF_GND (25) to CON2 (26)

Close to AP

Close to camera.

GC2035 200W
FPC24-1005B

DVDD1V8-CS1 = 1.8V
DOVDD-CS1 = 2.8V
AVDD-CS1 = 2.8V
AFVCC-CS1 = 2.8V

R-MCLK

C119 NC C0402

C120 1uF C0402

C121 4.7uF C0603

C122 104 C0402

GND

GND

GND

GND

DOVDD-CS1 DOVDD-CS1

R63 100K

R64 100K

CS1-RST-R

CS1-STBY-R

Close to camera.

nt Camera

0.33M

CON3

NC-1

GND-1

SDA

AVDD

SCK

RST

VSYN

STBY

HSYN

DVDD

DOVDD

D7

MCLK

D6

GND-2

D5

PCLK

D4

D0

D3

D1

D2

NC-2

NC-3

GC0308

AVDD-CSI

CSI-SDA

CSI-RST-F

CSI-VSYNC

CSI-STBY-F

CSI-HSYN

R439 33R R0402

R439 33R R0402

DOVDD-CSI

DVDD1V8-CSI

Close to AP

CSI-D7

CSI-D6

CSI-D5

CSI-D4

1 RN8

2

3 33R*4

4

CSI-MCLK

R67 33R R0402

F-MCLK

CSI-PCLK

R68 33R R0402

CSI-D0

CSI-D3

CSI-D1

CSI-D2

1 RN9

2

3 33R*4

4

22

D2

D1

D0

GND

Close to Camera

F-MCLK

DVDD1V8-CSI

AVDD-CSI

DOVDD-CSI

DOVDD-CSI

DOVDD-CSI

DOVDD-CSI

C124 1uF C0402

C125 1uF C0402

C126 4.7uF C0603

C127 1uF C0402

R69 100K R0402

R70 100K R0402

CSI-STBY-F

CSI-RST-F

GND

GND

GND

GND

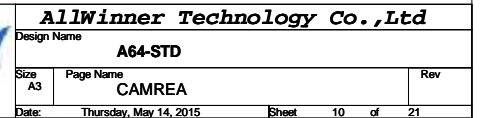
GND

Close to Camera

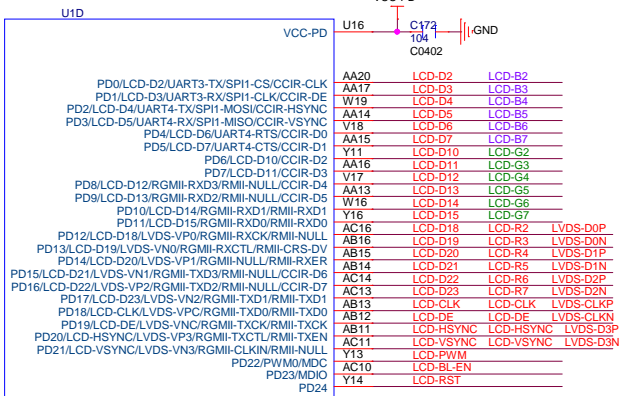
V8-CSI =1.8V

0-CSI =2.8V

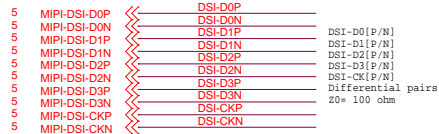
CSI =2.8V



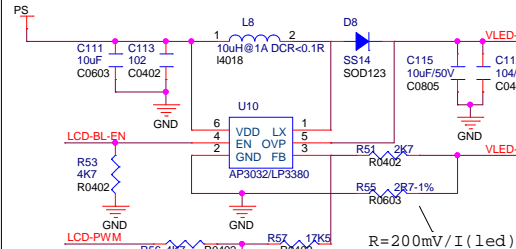
LCM/CTP



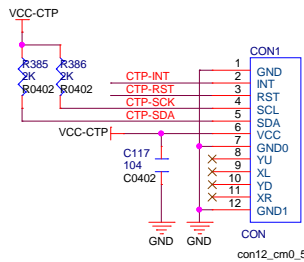
A64



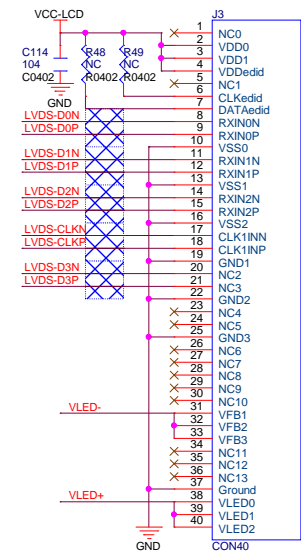
Backlight



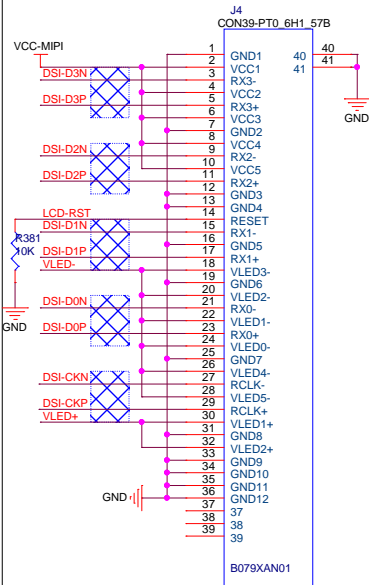
CTP



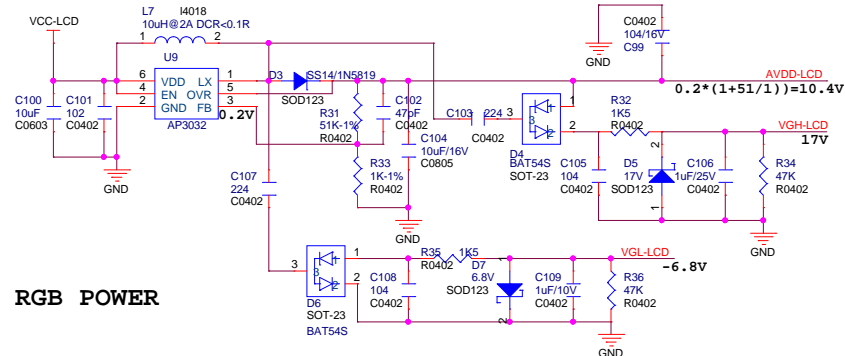
LVDS



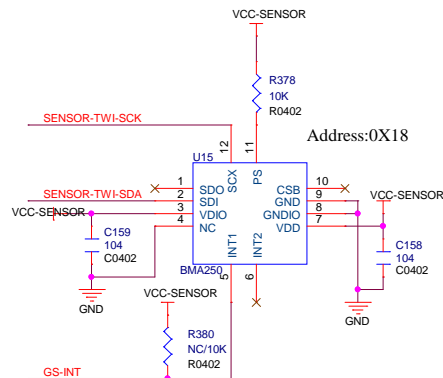
MIPI



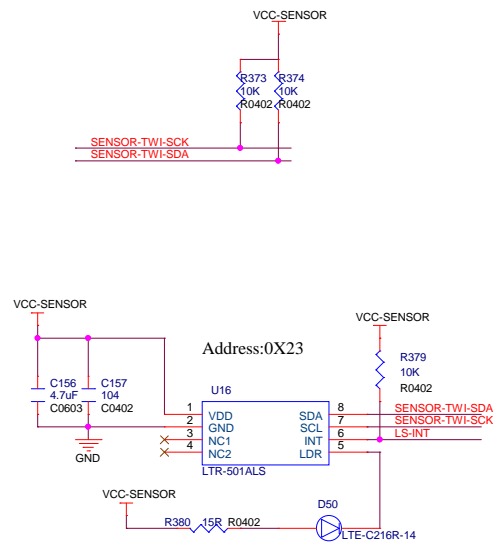
RGB POWER



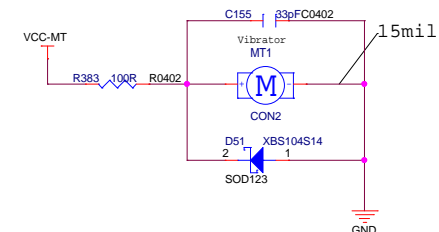
SENSOR



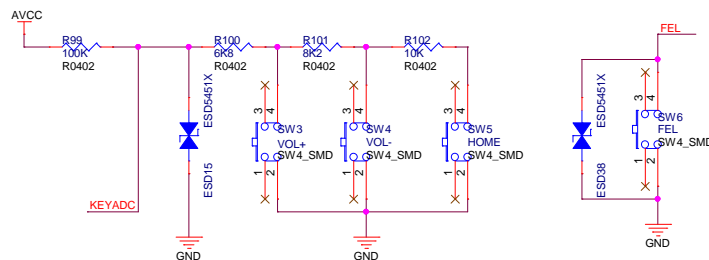
place PIN1 in the top right, parallel to the screen,
and put on the top left of the screen



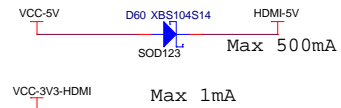
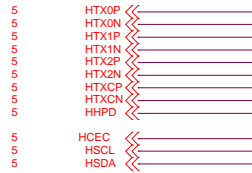
Motor



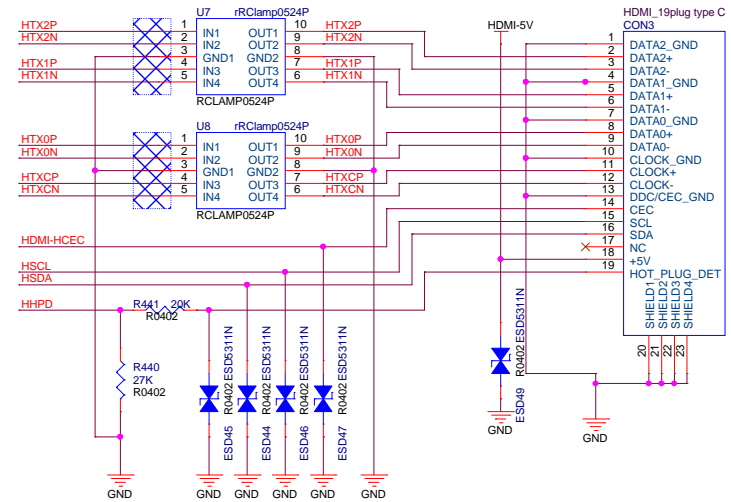
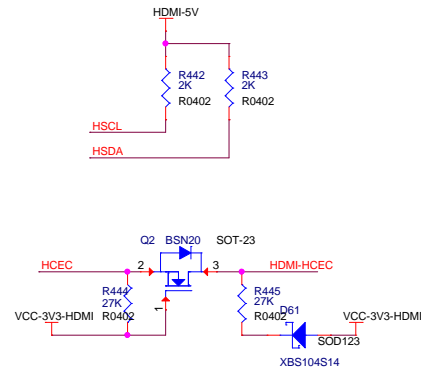
KEY



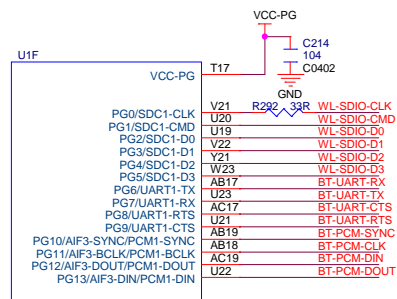
HDMI



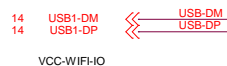
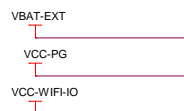
Differential pairs
Z0= 100 ohm



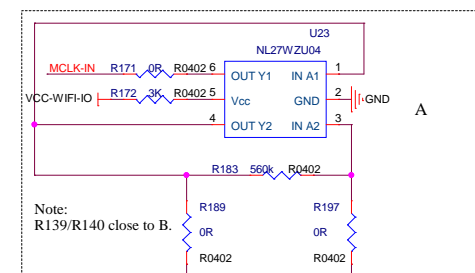
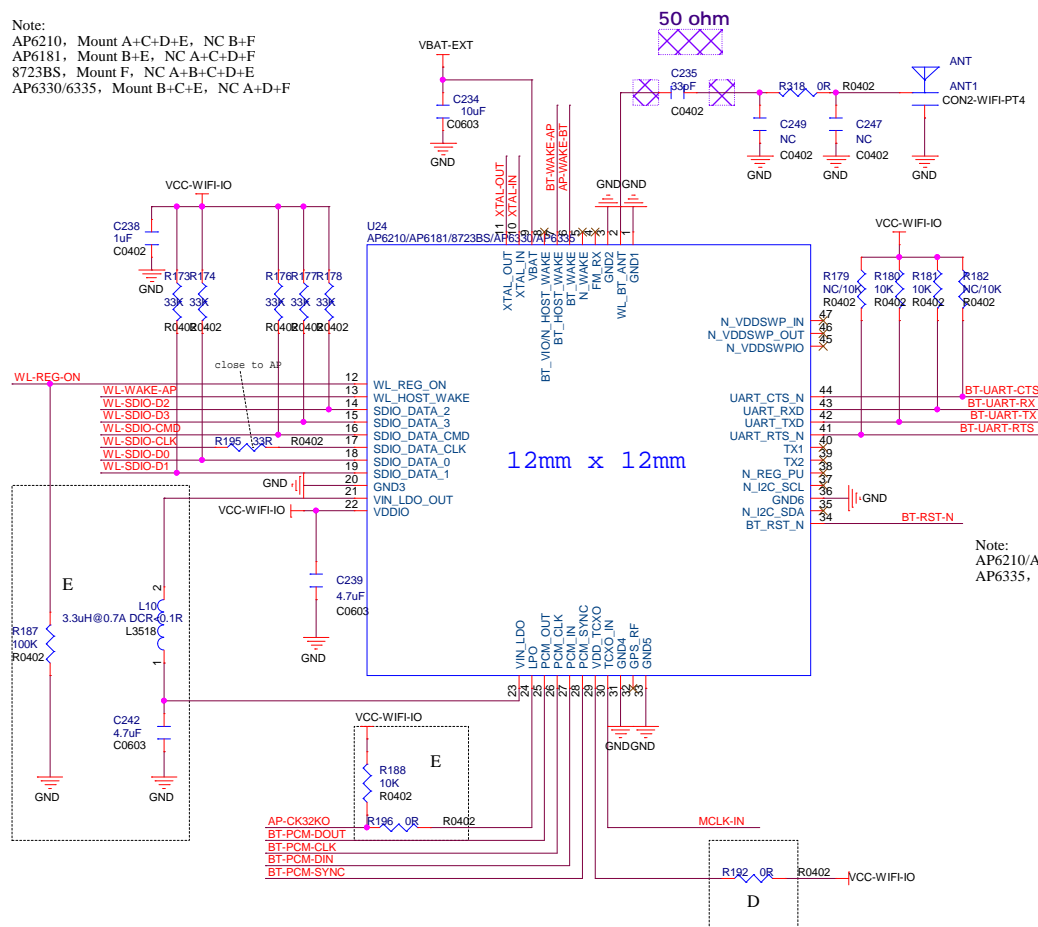
WIFI+BT



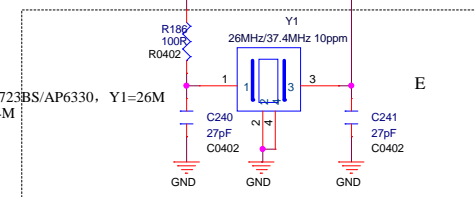
A64



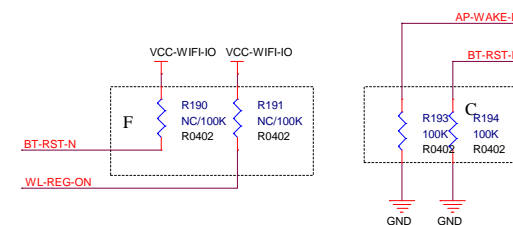
Note:
AP6210, Mount A+C+D+E, NC B+F
AP6181, Mount B+E, NC A+C+D+F
8723BS, Mount F, NC A+B+C+D+E
AP6330/6335, Mount B+C+E, NC A+D+F



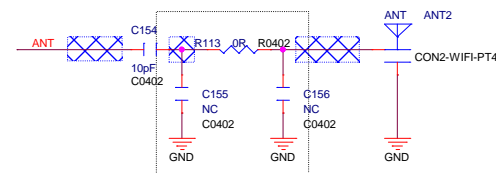
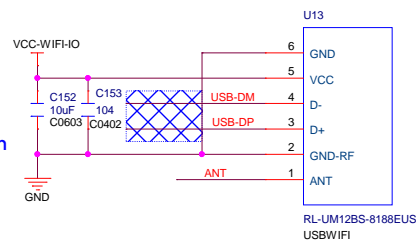
Note:



Note:
AP6210/AP6181/8722
AP6335, Y1=37.4M



USB WIFI



AllWinner Technology Co.,Ltd

Design Name

A83T-TABLET

Size
A3

Page Name
WIFI+BT

Rev

Date: Thursday, May 14, 2015

Sheet 13 of 18

2



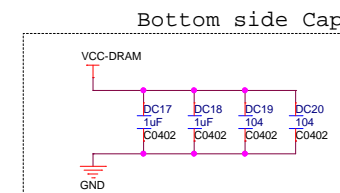
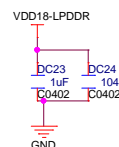
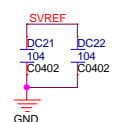
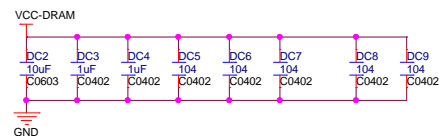
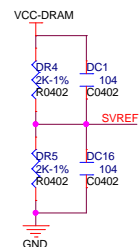
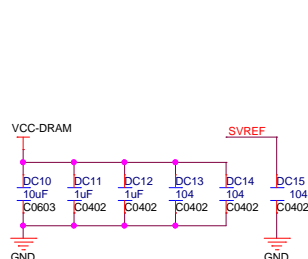
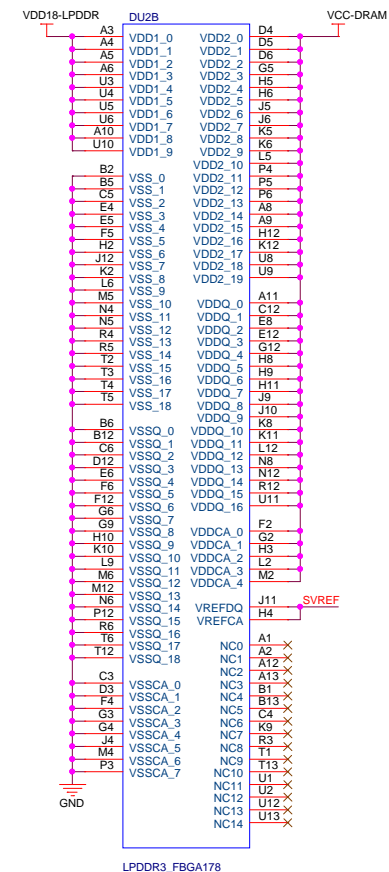
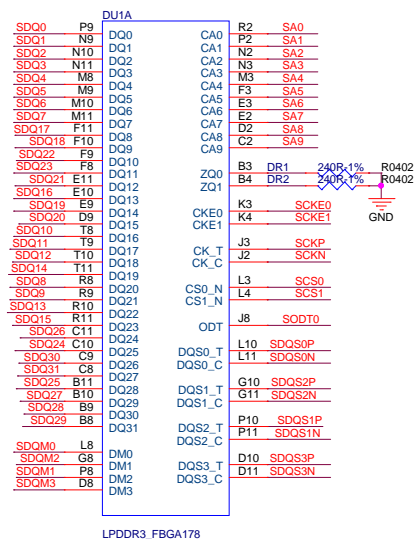
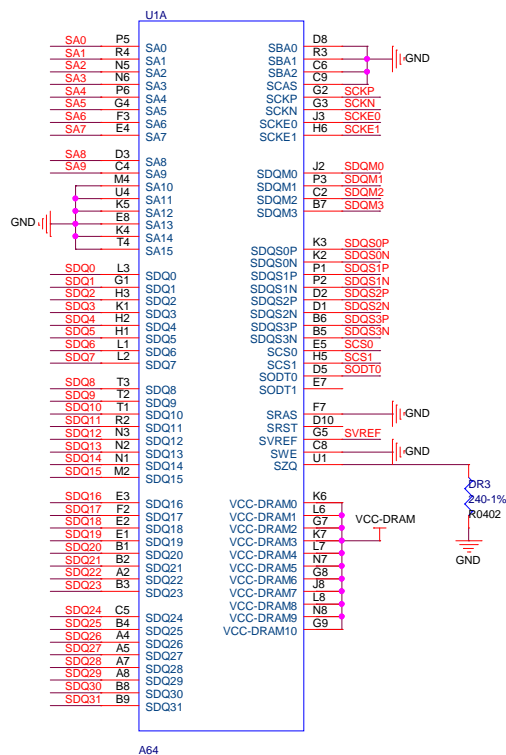
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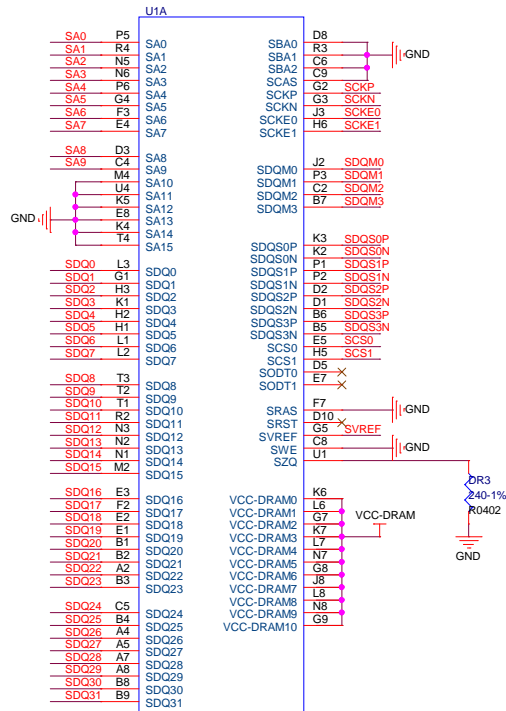
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LPDDR3

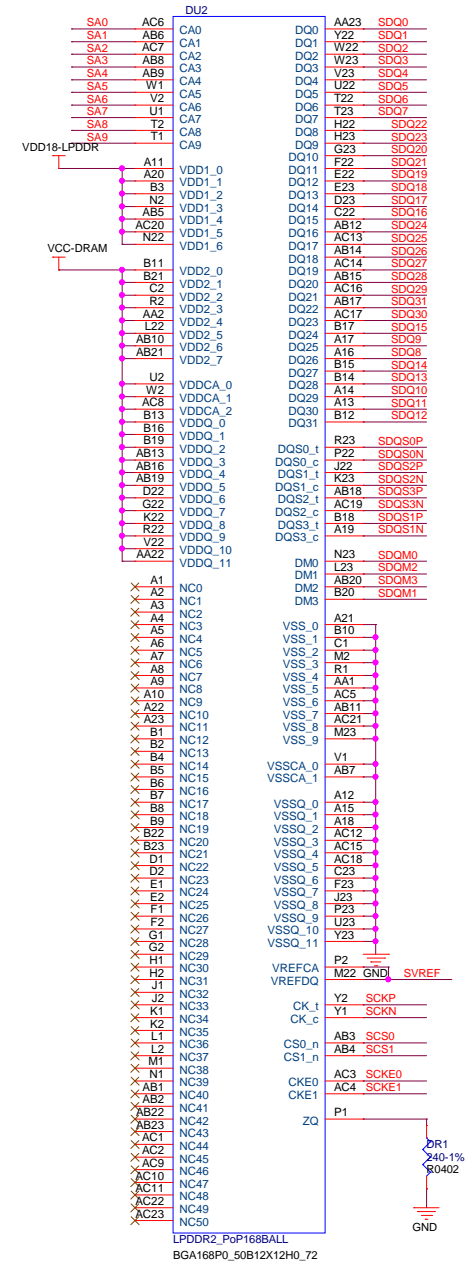
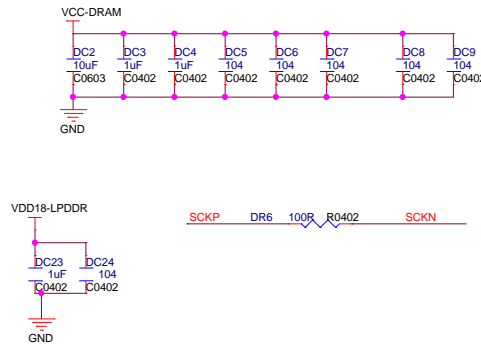
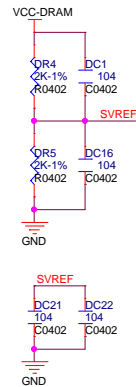
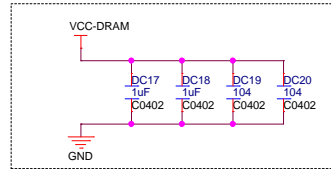


LPDDR3/LPDDR2

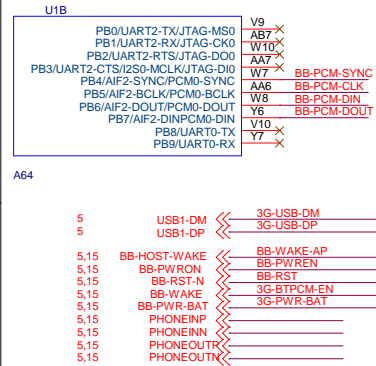


A64

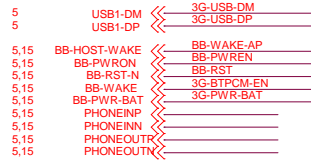
Bottom side Cap



MODEM 3G



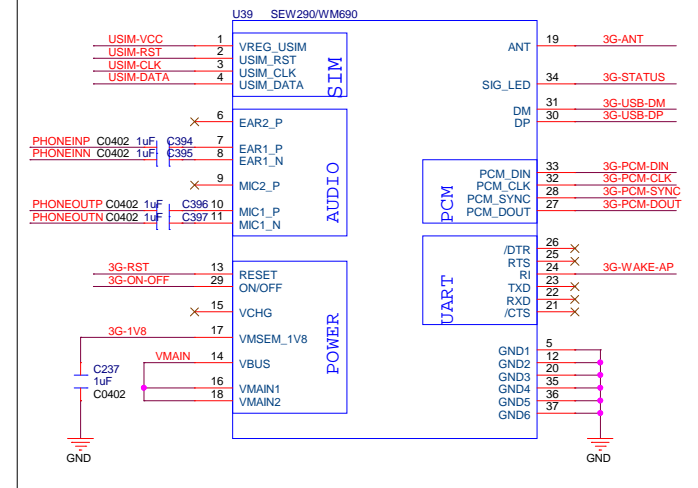
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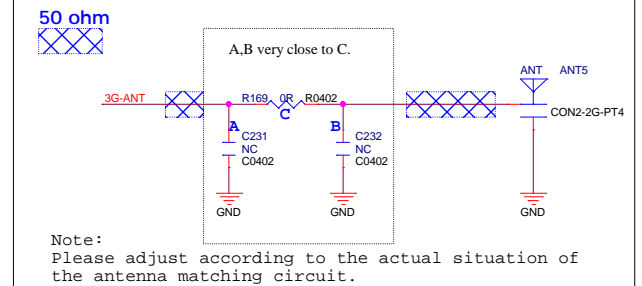
3G-VBAT 3.4~4.2V

DCDC1

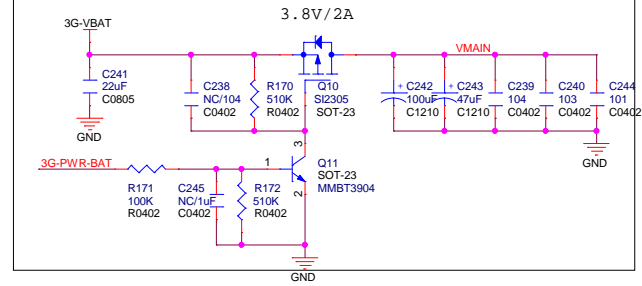
Modem



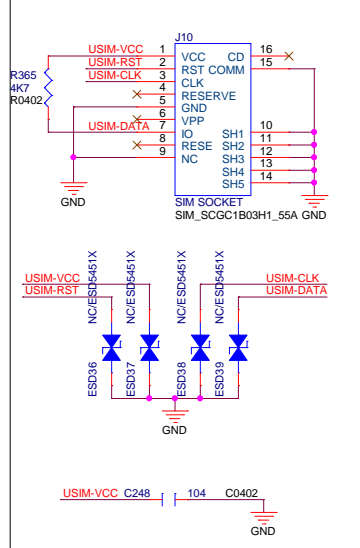
RF



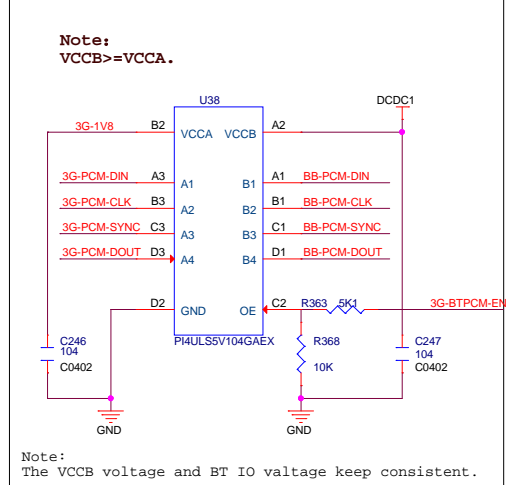
POWER



USIM



LEVEL TRANSFORM



CTRL

