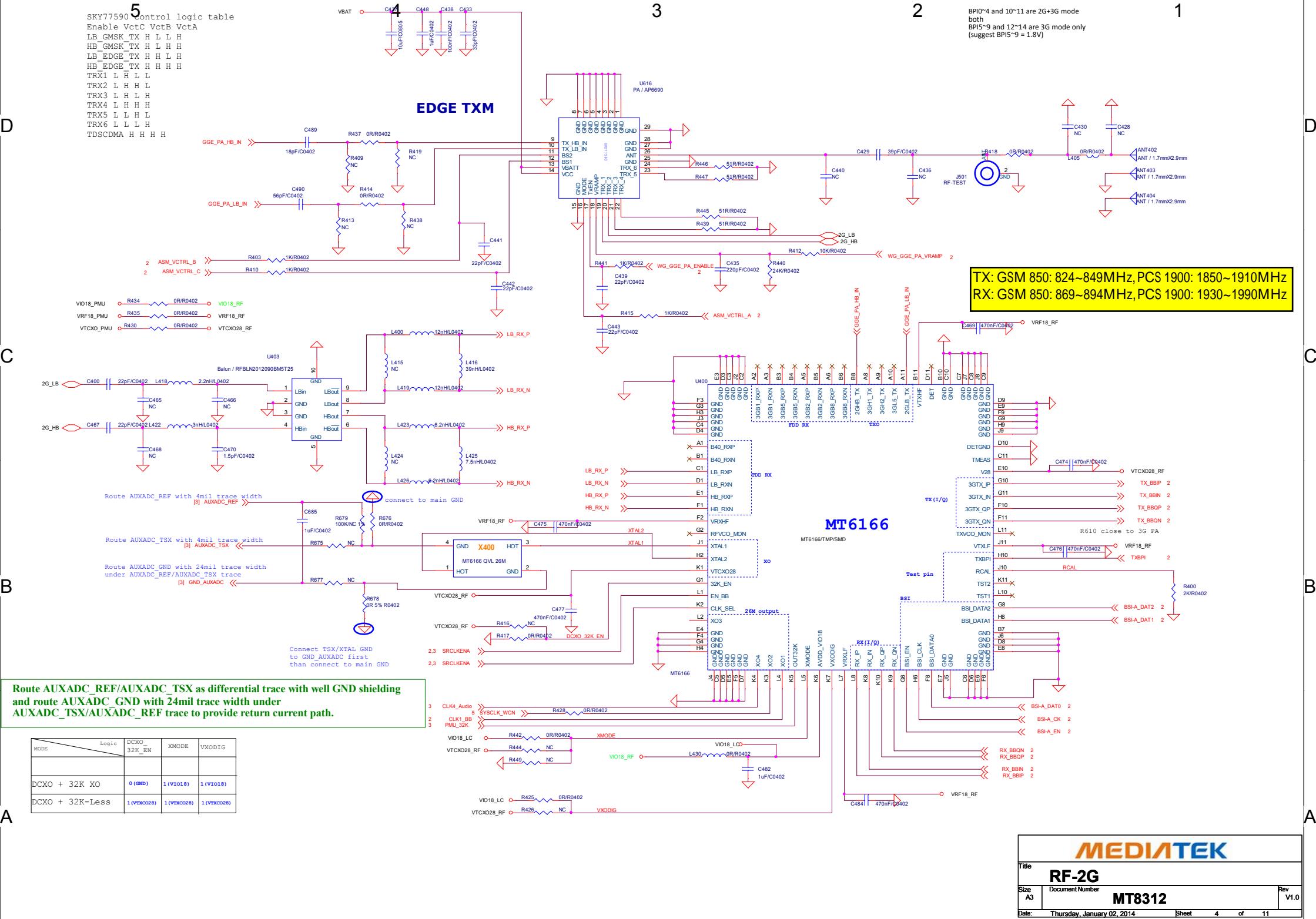
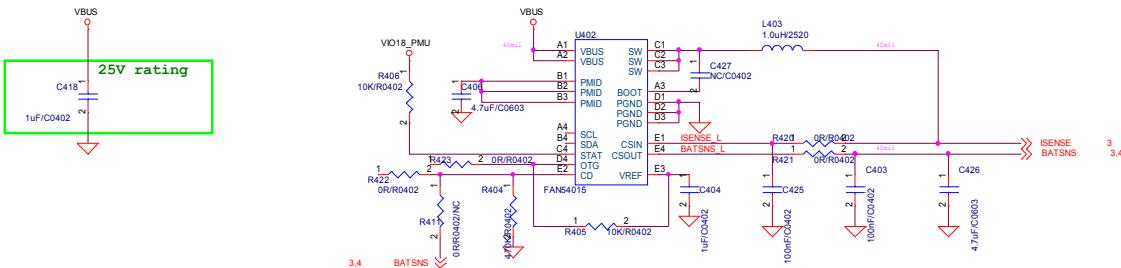
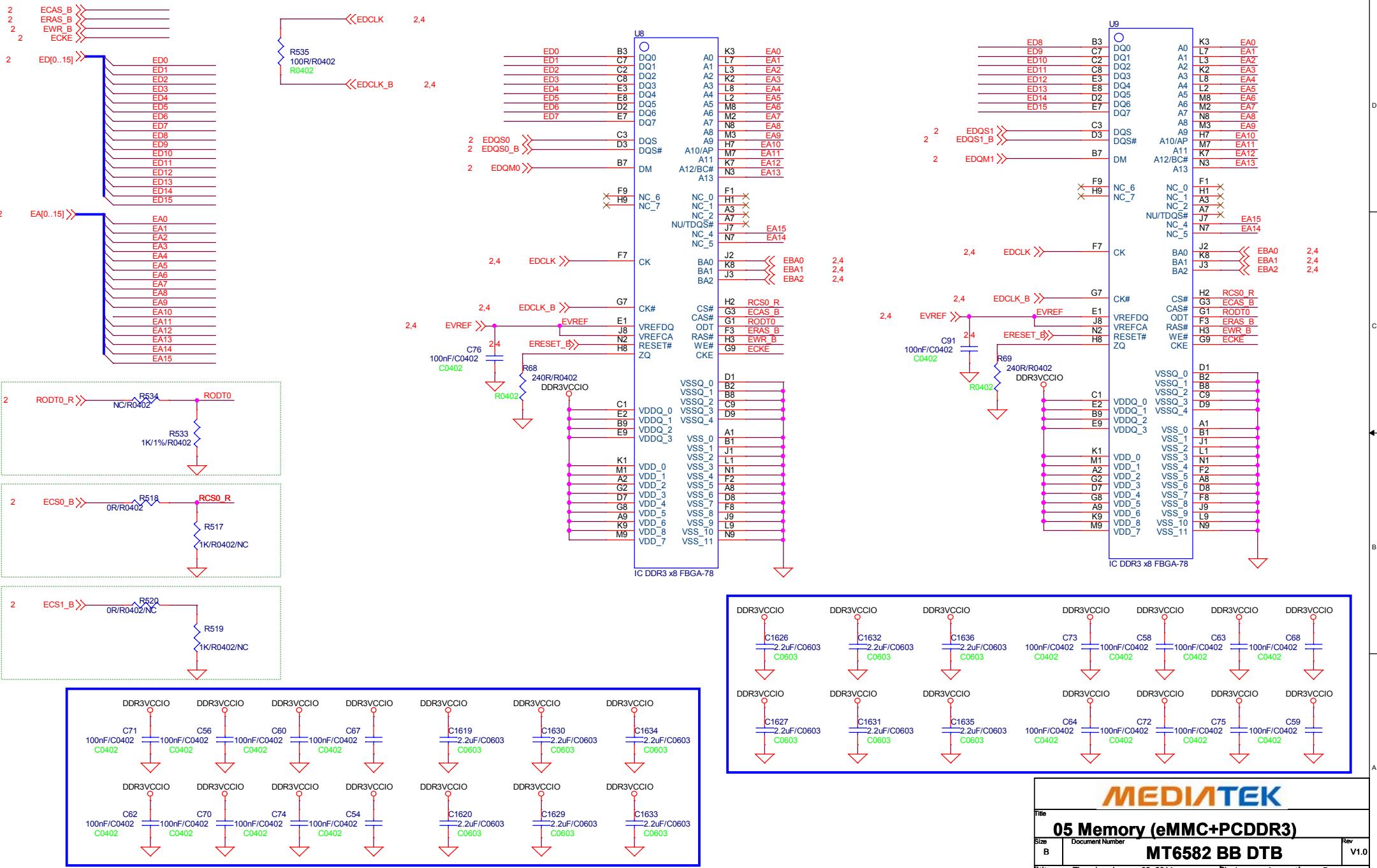


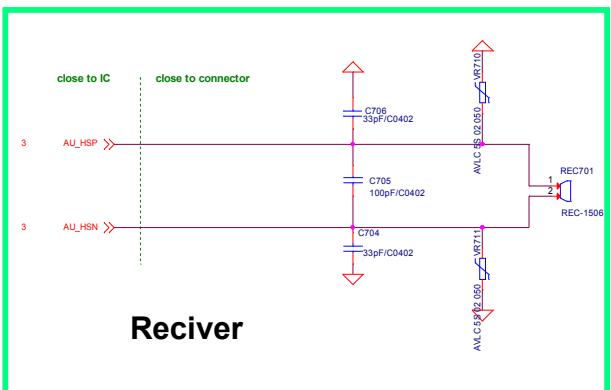
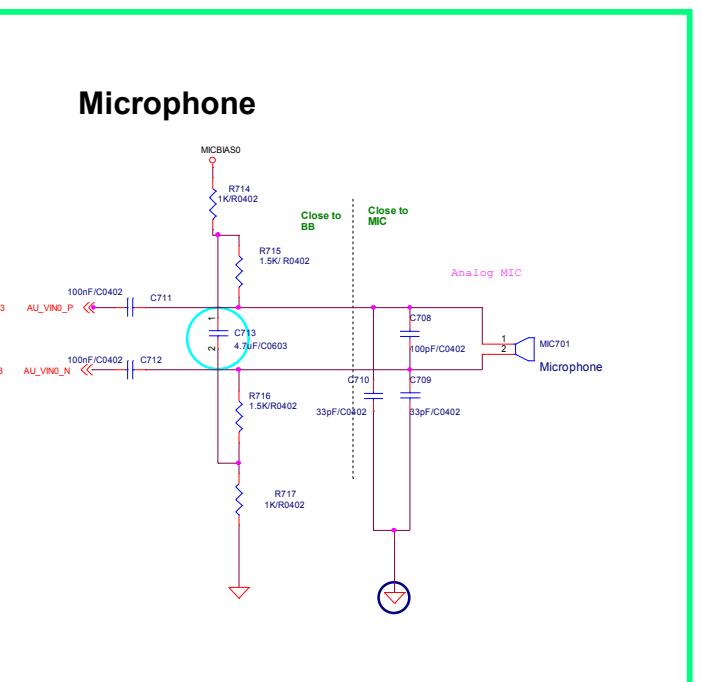
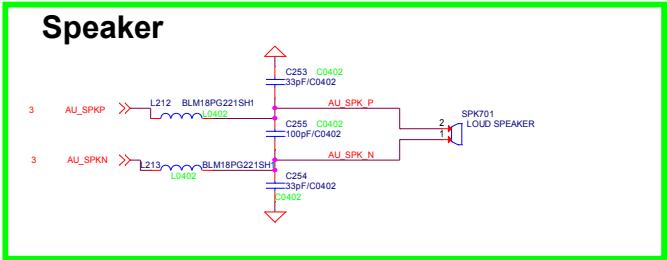
k	Output Voltage(V)	Output Current(mA)	Input Decoupling	Output Decoupling	Notes
ROC	0.7-1.4	2800	>10µF	L=0.68µH,C=10µF*4	Total output cap >40µF
A	0.5-3.4	600	>4.7µF	L=2.2µH,C=2.2µF+2.2µF	Output cap range 4.4µF +/-20%
YS	2.2	1200	>10µF	L=0.68µH,C=10µF*2	Total output cap >20µF
DO	Output Voltage(V)	Output Current(mA)	Bypass cap	cap range	Notes
	2.8	150	1µF	-20%~+20%	Far-end bypass cap
N28	2.8	30	1µF	-20%~+20%	Far-end bypass cap
CXO	2.8	40	1µF	-20%~+20%	Far-end bypass cap
AMA	2.8	150	3.20µF	-20%~+20%	1µF/near-end 2.2µF/Far-end bypass cap
N33	3.3/3.4/3.5/3.6	240	4.7µF	-20%~+20%	Far-end bypass cap
TC	2.8	2	0.1µF to 1000µF	-20%~+20%	Far-end bypass cap
	1.24/1.39/1.54/1.84	700	10µF	-20%~+20%	Far-end bypass cap
F18	1.825	200	1µF	-20%~+20%	Far-end bypass cap
18	1.8	300	4.7µF	-20%~+20%	Far-end bypass cap
28	2.8	200	2.2µF	-20%~+20%	Far-end bypass cap
N18	1.8	120	1µF	-20%~+20%	Far-end bypass cap
AMD	1.2/1.3/1.5/1.8	150	1µF	-20%~+20%	Far-end bypass cap
MJ_O	1.8	100	1µF	-20%~+20%	Far-end bypass cap
AC_3V3	3.0/3.3	400	4.7µF	-20%~+20%	Far-end bypass cap
CH	3.0/3.3	100	1µF	-20%~+20%	Far-end bypass cap
S3	3.3	20	1µF	-20%~+20%	Far-end bypass cap
M1	1.8/3.0	50	1µF	-20%~+20%	Far-end bypass cap
M2	1.8/3.0	50	1µF	-20%~+20%	Far-end bypass cap
P1	1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3	100	1µF	-20%~+20%	Far-end bypass cap
R	1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3	100	1µF	-20%~+20%	Far-end bypass cap
P2	1.2/1.3/1.5/1.8/2.0/2.5/2.8/3.0	100	1µF	-20%~+20%	Far-end bypass cap
P3	1.2/1.3/1.5/1.8	200	1µF	-20%~+20%	Far-end bypass cap
AM_AF	1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3	100	1µF	-20%~+20%	Far-end bypass cap
G18	1.8	20	1µF	-20%~+20%	Far-end bypass cap



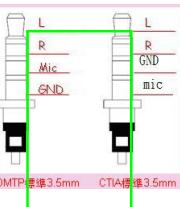
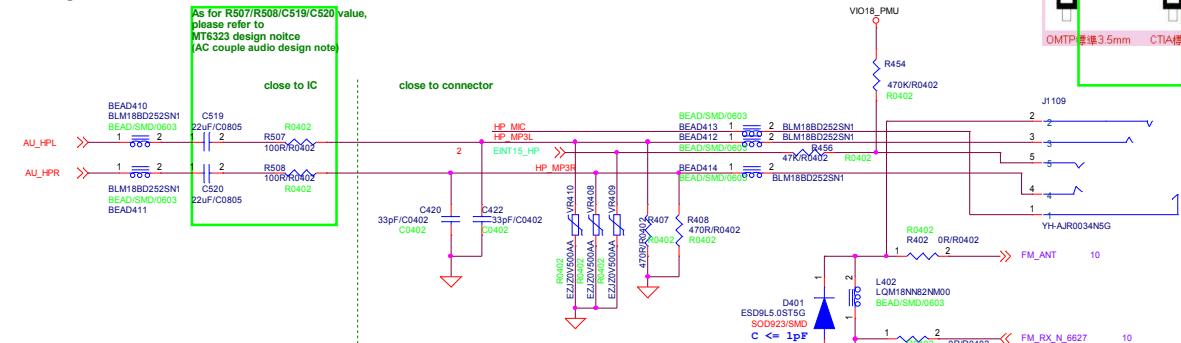
Switching Charger



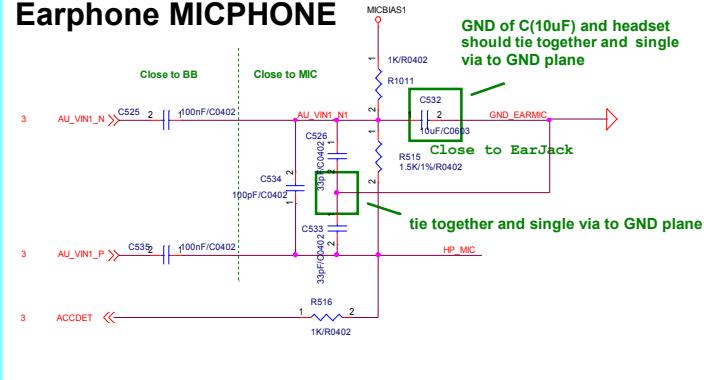


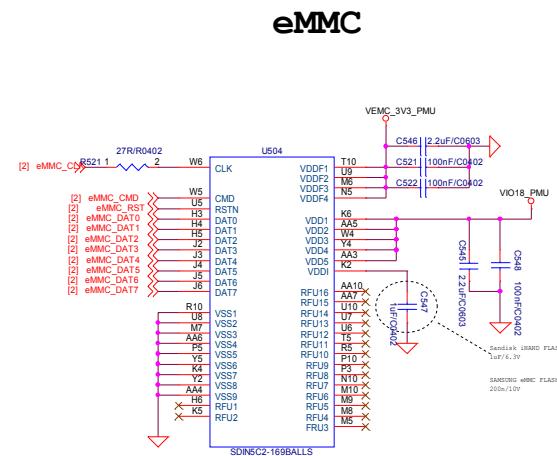


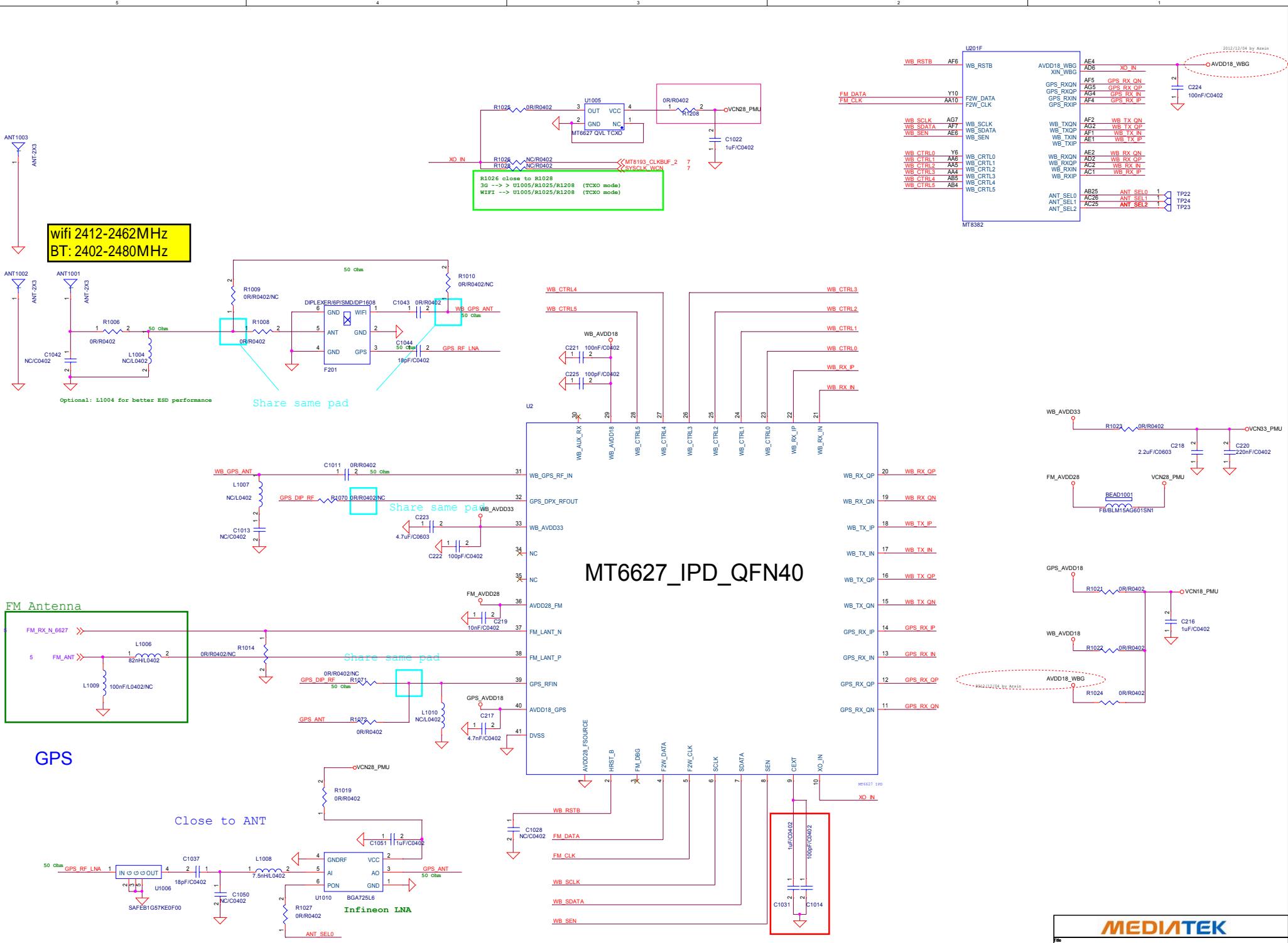
Earphone Audio



Earphone MICPHONE





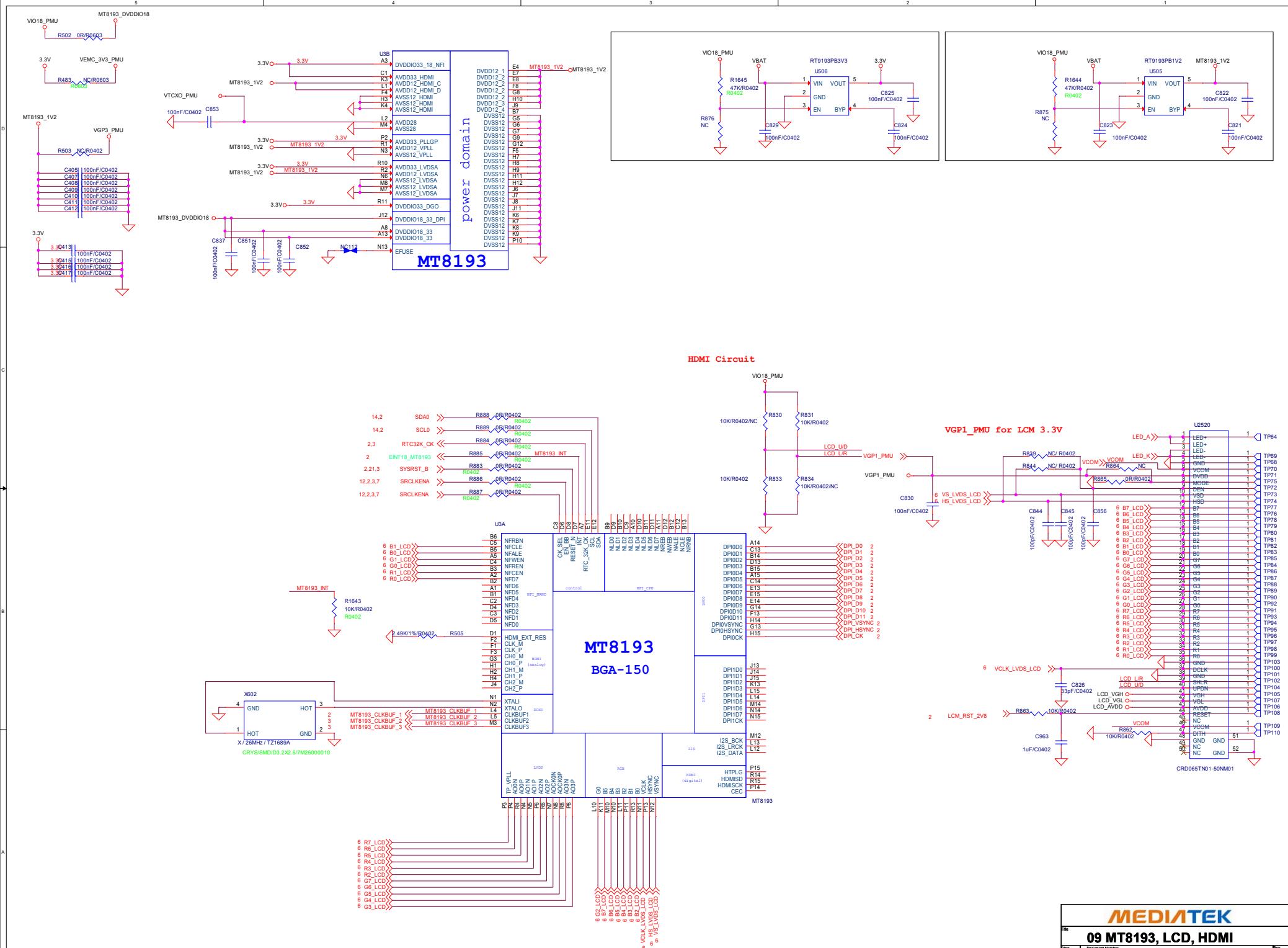


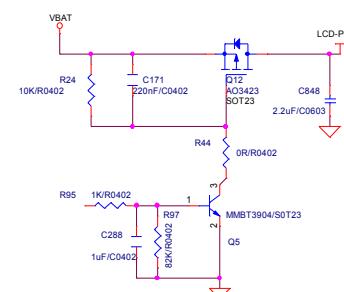
MEDIATEK

MT662

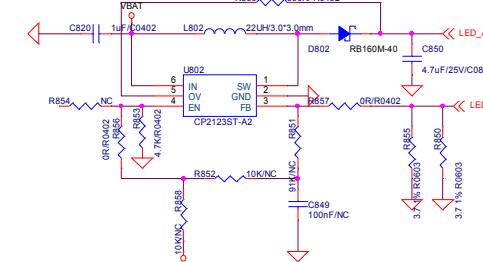
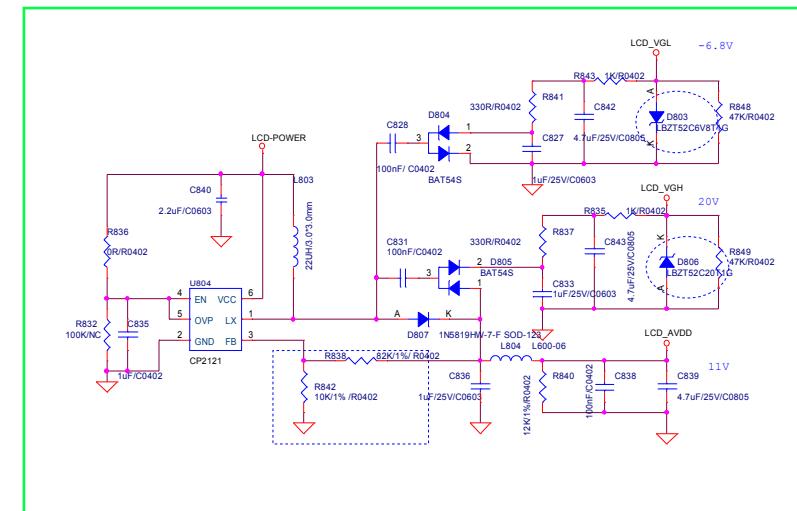
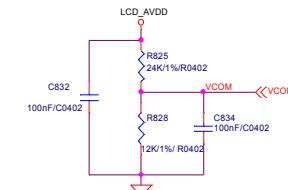
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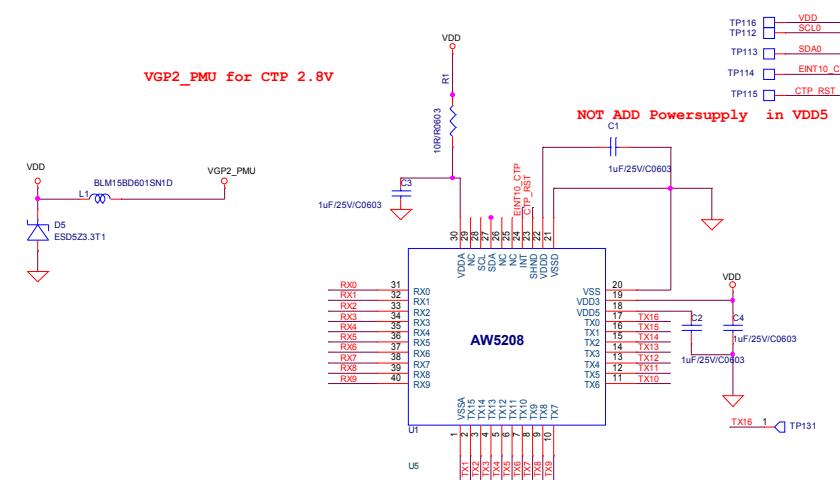




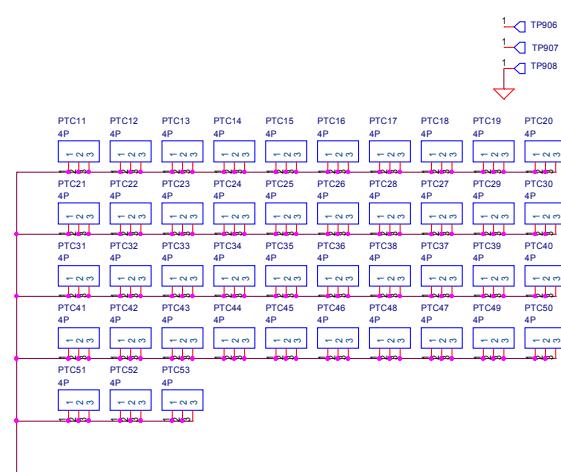
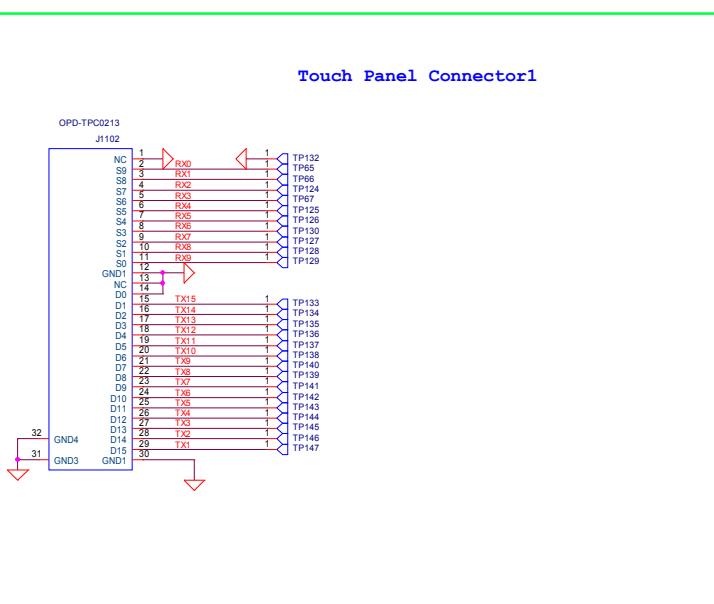
DVDD	3.0 ~ 3.6v	(typ. 3.3v)
AVDD	10.8 ~ 11.2v	(typ. 11.0v)
VGH	19.7 ~ 20.3v	(typ. 20.0v)
VGL	-7.1 ~ -6.5v	(typ. -6.8v)
VCOM	3.46 ~ 3.86v	(typ. 3.66v)



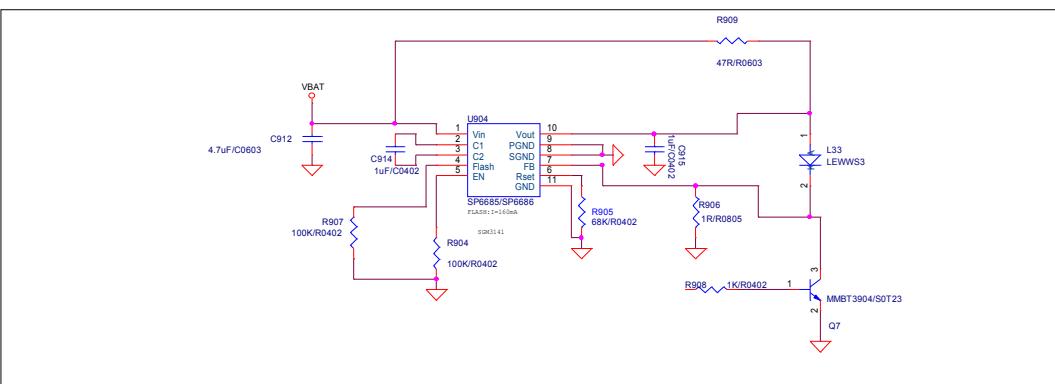
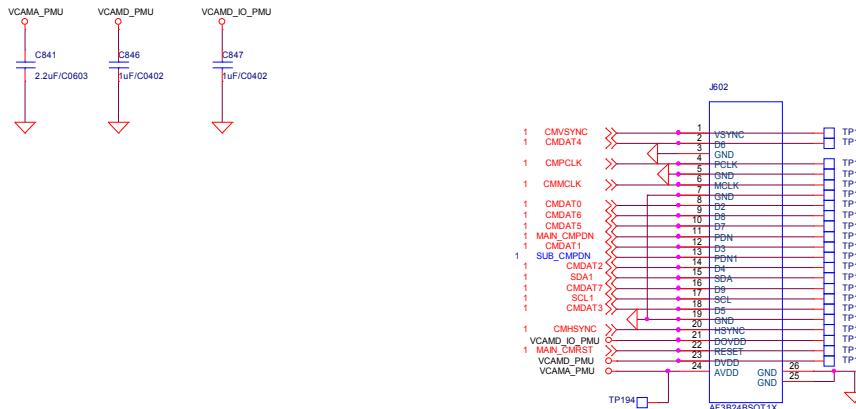
LED Backlight Drive



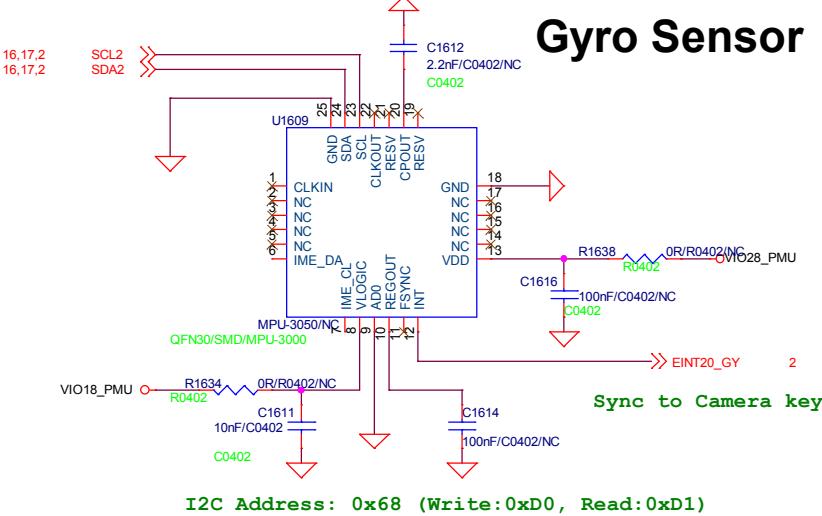
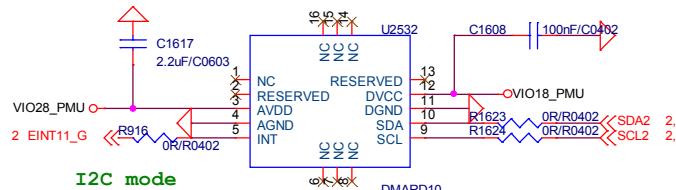
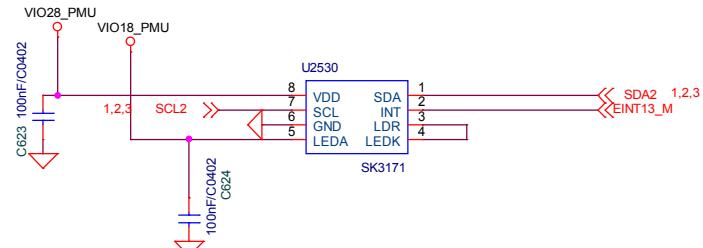
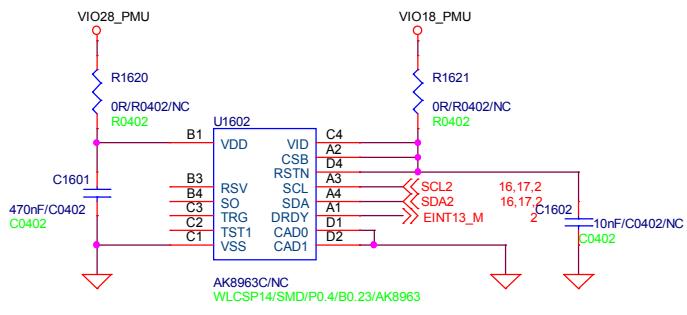
Touch Panel IC circuit



Main/Sub Camera



M-Sensor



MEDIATEK

21 Sensors, OFN (Key)

MT8382 TABLET

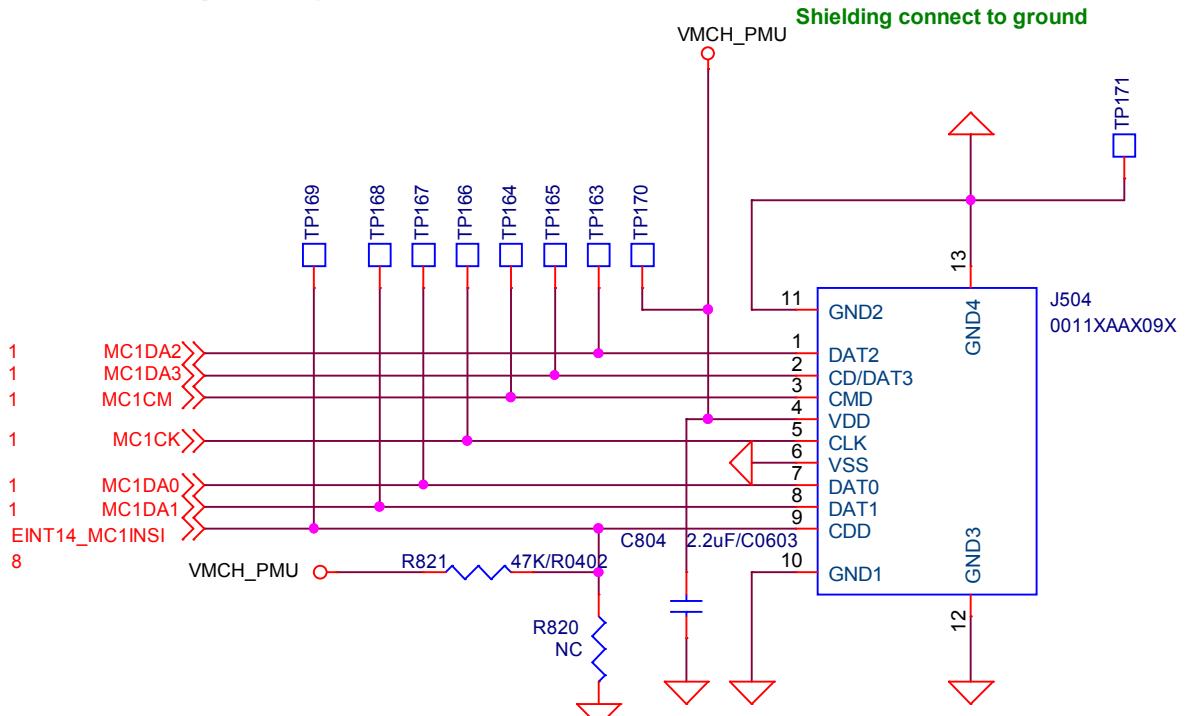
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SD CARD

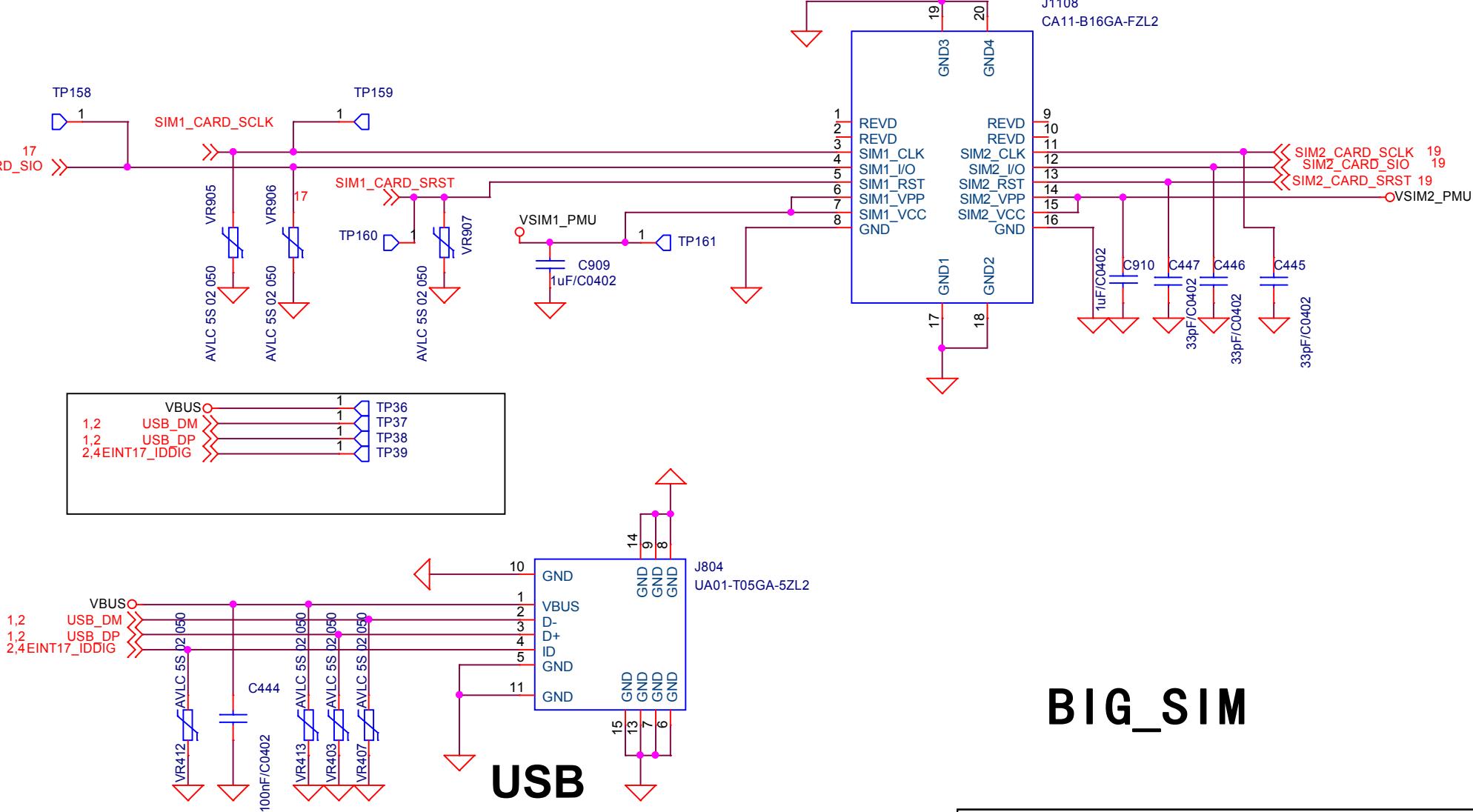
SW:
Shielding connect to ground
L: Card insert



Shielding connect to ground



SIM

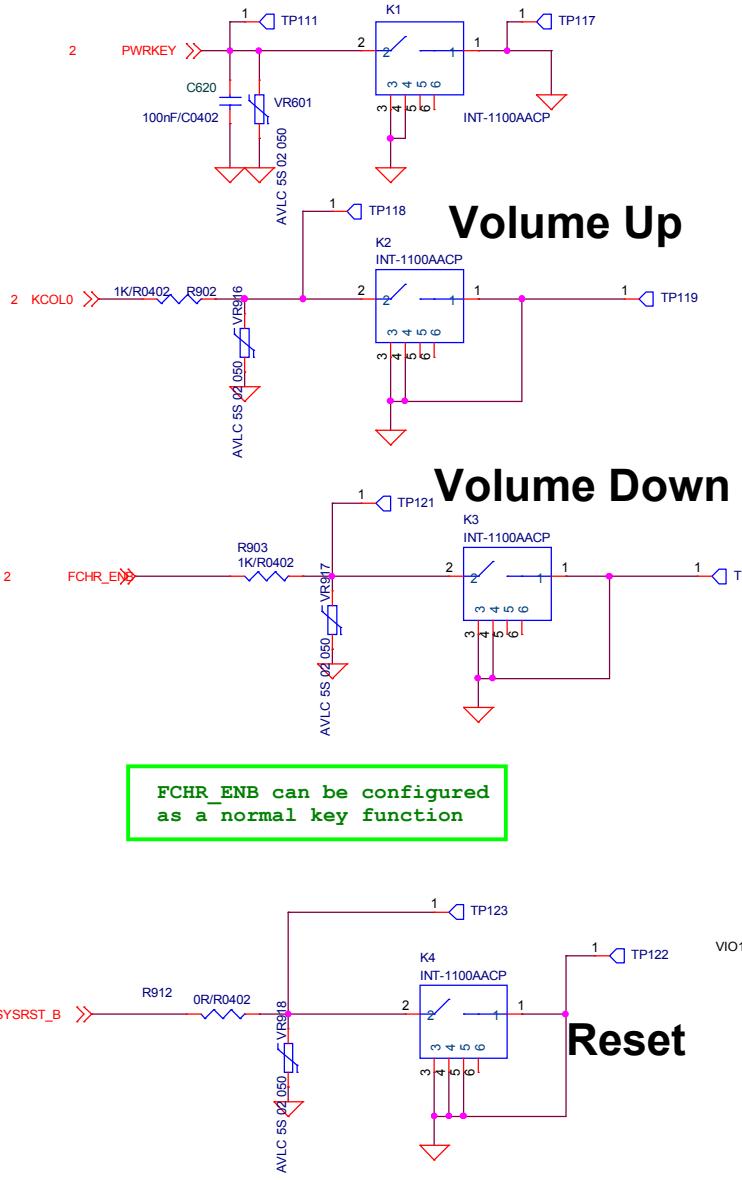


BIG_SIM

MEDIATEK	
Title	19 Dual SIM, IC-USB
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MT8382 TABLET	
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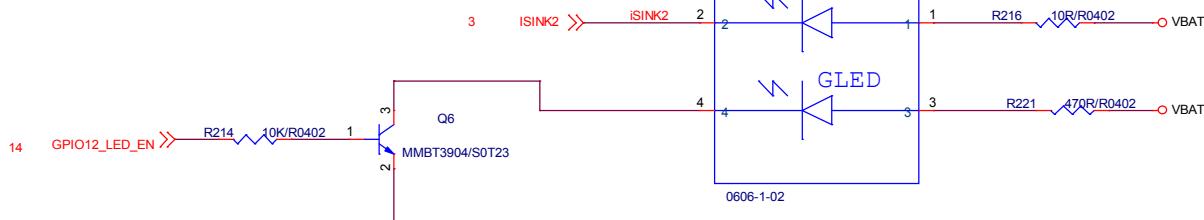
Power Key

DO NOT put pull-up resistor on PWRKEY

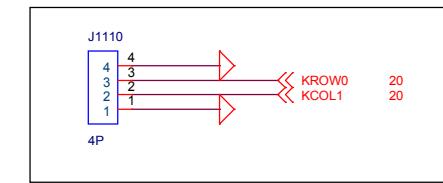


LED

Red
Blue



Indicator LED



Notice :

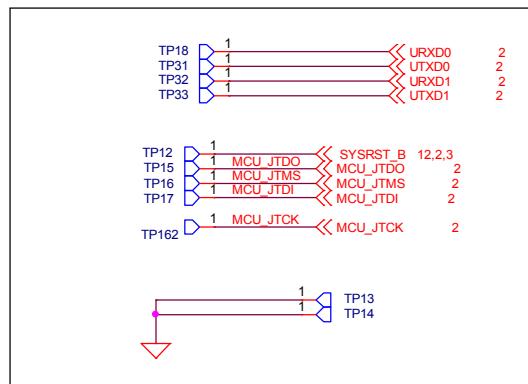
1. Due to KCOL0 & KROW0 reset mode = GPIO input mode, "Force USB download mode" will be fail in KCOL0+KROW0. So we change VolumeUp key=KCOL0+GND
2. Keypad matrix will become as (KEY1=KCOL0+GND)

	KCOL0	KCOL1	KCOL2
KROW0		KEY 2	KEY 5
KROW1	KEY 1	KEY 3	KEY 6
KROW2		KEY 4	KEY 7

Notice :

- There are 3 options for "Long press to shutdown" function
1. PWRKEY + FCHR_ENB
 2. PWERKEY only
 3. FCHR_ENB only

During download mode, defalut = PWRKEY + FCHR_ENB
For other case (exclude download mode), defalut = PWERKEY only



Net	Aux Func.0	Aux Func.1	Aux Func.2	Aux Func.3	Aux Func.4	Aux Func.5
JTMS	GPIO76	B1:JTMS	I1:CONN_MCU_TMS			
JTCK	GPIO77	I0:JTCK	I0:CONN_MCU_TCK1			
JTDI	GPIO78	I1:JTDI	I0:CONN_MCU_TDI			
JTDO	GPIO79	O:JTDO	O:CONN_MCU_TDO			
EINT1	GPIO1	O:PWM2	O:DPI_D5	I0:MD_EINT1	O: TDD_TDO	O:CONN_MCU_TDO
EINT2	GPIO2	O:CLKM0	O:DPI_D6	I0:MD_EINT2		O:CONN_MCU_DBGACK_N
EINT3	GPIO3	O:CLKM1	O:DPI_D7	I0:SPI_MI	I0:MD_EINT3	I1:CONN_MCU_DBGI_N
EINT4	GPIO4	O:CLKM2	O:DPI_D8	O:SPI_MO	I1:TDD_TCK	I0:CONN_MCU_TCK0
EINT5	GPIO5	I1:UCTS2	O:DPI_D9	O:SPI_CS	I1: TDD_TDI	I0:CONN_MCU_TDI
EINT6	GPIO6	O:URTS2	O:DPI_D10	O:SPI_CK	I0:TDD_TRSTN	I0:CONN_MCU_TRST_B
EINT7	GPIO7	I1:UCTS3	O:DPI_D11	B1:SDA1	I1: TDD_TMS	I1:CONN_MCU_TMS
ANT_SEL0	GPIO47	O:ANT_SEL0	O:PWM0	O:CONN_MCU_DBGACK_N		
ANT_SEL1	GPIO48	O:ANT_SEL1	O:PWM1	I1:CONN_MCU_DBGI_N		
ANT_SEL2	GPIO49	O:ANT_SEL2	O:PWM2	I0:CONN_MCU_TRST_B		

4/11

1. Update MT6166 26M Xtal, X600 change to EPSON X1E000021043400
2. U610 change to SAYRF1G88CA0B0A(B2)
3. U613 change to SAFAEA2G34FA1F0A
4. Add C613 & C614 for RF request.
5. Reserve L636 for RF tuning.
6. Net: VDD18_6583 chage to VIO18_PMU.

5/31,

1. Update MT8193 Power circuit.
2. Update MT8193 HDMI AVDD33 circuit.

D

D

4/14

1. Remove R1073, and let MT6627 pin#34 NC.
2. L1009 change to NC.
3. Update eL2 new part, 将七pin #36~38 跳T端, pin#36~38锁结 檔.
4. GPS default to external LNA path
R1010, R1009, R1070, R1071 --> NC
R1072, R1019, R1027, C1043, R1008 --> 0 ohm
5. Update F201 part/footprint to DIPLEXER/6P/SMD/DP1608
6. C1218, C1219 change to 22 pF ; C1214, C1215 change to 1.2 pF.
C1216, C1217 change to 68 pF ; C1203 change to 4.7uF
7. C222 change to 4.7uF.

6/3,

1. Add R104/R110/R112/R119/R120/R121/R122/R123 for low power measurement.

C

C

4/14

1. Add R101, R108, R106, R109, R102, R104, R116, R117, R118, R111, R113, R114, R115 for low power break down. Customer can delet thiese for cost down.
2. Add TP251 & TP252 for NFC debugging.
3. Change R1247 & R1246 connection net name.

6/18,

1. R221 change to NC.
2. R404 change to 470K for battery low power performance.
3. Add C544 (please refer to vender datasheet to get recommand eMMC VDDI/VCC/VCCQ bypass cap value)
4. MT6166 pin C11 connect to GND. (SYNC with MT6572)
5. Update MT6166 co-clock/ Xtal mode table. (Page#7)
6. Add C321
7. Add notice for MT6323 Buck GND. (Page#3)
8. Change VolumeUp key = KCOL0+GND.
Change Volume down key = FCHR_ENB+GND.
Add Key notice. (Page #20)
9. C519 & C520 change to 22uF 0805 for audio HP.
10. Remove R1028, and modify MT6627 26M notice.
11. MT6627 26M default TCXO mode:
R1206 --> NC
R1205, R1208 --> 0 ohm
U1005 --> 26M QVL TCXO with 0.5 ppm (2.8V)

D

D

- 4/15, Remove some RF components for cost down.
1. Remove U602, R615, R628, and delet PDET_ALL net.
 2. Remove Page 11 all component, and delet Carket net.
 3. Remove U108.

6/20,

1. P7, MT6166 change to Xtal mode:
R655, R678 --> 0 ohm.
R340, R656, R677 --> NC
X600 --> MT6166 QVL Xtal
2. Add R1643, MT8193 INT PD.

B

B

- 4/16,
1. Add C353, VA_PMU to GND power.
 2. Update Page03, ISENSE &BATSNS connection for guage function.
 3. Add R339 for CHR_LDO connection.

- 4/18,
1. Update page#19, SIM card to NFC circuit.
 2. Update SIM to Micro-SIM footprint.

- 4/19,
1. C223 change to 2.2uF, and C222 change to 100 pF.
 2. Add C220 and C218 for WCN tuning.
 3. C1011 change to 0 ohm.
 4. Add R1254 & R1255 for NFC antenna tuning.

A

A

- 5/6,
1. GPIO12 & GPIO13 can't be used as EINT function.
Exchange MT8382 GPIO12(GPIO13)/KPROW1/KPCOL2

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