CONFIDENTIAL

MOBILE PHONE
SERVICE MANUAL

CAUTION
BEFORE SERVICING THE UNIT, READ THE “SAFETY PRECAUTIONS” IN THIS MANUAL

MODEL : LG-M700TV

Date: July, 2017 / Issue 1.0

Table Of Contents

1.1 Purpose

This manual provides the information necessary to repair, calibration, description and download the features of this model.

1.2 Regulatory Information

A. Security

This material is prohibited to share and release to unauthorized person, in accordance with the regulations, LG Electronics, Civil / criminal responsibility in accordance with the relevant provisions violate.

B. Precautions for repair

- In case of Disassembly or Assembly to repair product, be careful of a product failure caused by RF signals and Static electricity.
- When using Magnetic tool for the Phone's SVC repair, you should check affect the Electric parts according to effect of Magnet.
- When fastening the screw, be careful not to damage the head of screw and even product.

C. Attention

Boards, which contain Electrostatic Sensitive Device (ESD), are indicated by the  **sign.**

Following information is ESD handling:

- Service personal should ground themselves by using a wrist, strap when exchange system board.
- When repair are made to a system board, they should spread the floor with anti-static mat which is also grounded.
- Use a suitable, grounded soldering iron.
- Keep sensitive parts in these protective packages until these are used.
- When returning system board or parts like EEPROM to the Factory, use the protective package as described.

2.1 Band Specification

Support Band	TX Freq (MHz)	RX Freq (MHz)
WCDMA(FDD1)	1920 – 1980	2110 – 2170
WCDMA(FDD2)	1850 – 1910	1930 – 1990
WCDMA(FDD3)	1710 – 1785	1805 – 1880
WCDMA(FDD5)	824 – 849	869 – 894
WCDMA(FDD8)	880 – 915	925 – 960
EGSM	880 – 915	925 – 960
GSM850	824 – 849	869 – 894
DCS1800	1710 – 1785	1805 – 1880
PCS1900	1850 – 1910	1930 – 1990
LTE1	1920 – 1980	2110 – 2170
LTE2	1850 – 1910	1930 – 1990
LTE3	1710 – 1785	1805 – 1880
LTE7	2500 – 2570	2620 – 2690
LTE17	704 – 716	734 – 746
LTE28	703 – 748	758 – 803

2.2 HW Features

List	Type / Spec.	
1. Phone Type	DOP Type	
2. Size	142.5mm x 69.3mm x 8.1mm	
3. Weight	149 g (with Battery)	
4. Battery	**3,000mAh(Typ) (Li-Ion)**, 2,900mAh(Min.)	
5.Chipset	MSM8940 1.4GHz Octa core	
6. Memory	32GB(EMMC) + 3GB(LPDDR3) External Memory(SD Card) : Up to 2TB	
7. LCD	Size	5.5 inch
	Display Type	Active matrix TFT, Transmissive Type
	Color	16.7M colors
	Resolution	FHD (1080(H)X2160(V)), 442ppi
8. Touch	Type	5.5 inch Capacitive type
9. Main Camera (5M)	Type	CMOS image sensor
	Resolution	4160(H) X 3120(V) pixels.
	Image Scaling Down	4:3(13MP – 4160x3120) , 4:3(6.2MP – 2880x2160) 16:9(9.7MP – 4160x2080) , 16:9(3.7MP – 2560x1440) 18:9(8.7MP – 4160x2080) , 18:9(3.3MP – 2560x1280) 1:1(9.7MP – 3120x3120) , 1:1(2.1MP – 1440x1440)
	Format	**Image : JPG, Video : MP4**

2.2 HW Features

10. Audio	Receiver	12 X 06 X 2.0T Receiver
	Speaker	16 X 12 X 2.6T Speaker
	Format	MP3, AAC, MIDI, EAAC+, OGG, AMR
11. Bluetooth	Standard	Bluetooth 4.2
	Effective Distance	10M
	Distance	0 m ~ 10 m (depend on environment)
12. WLAN	Standard	IEEE 802.11 b/g/n
	Throughput	Max 40Mbps (SDIO Driver performance)
	Depend on environment	0 ~ 50m (depend on environment)
13. GPS	type	A-GPS, GLONASS
14. FM	type	FM Radio, 3.5pi Ear-jack

2.3 RSSI Display

RSSI BAR	GSM RSSI	WCDMA/ TD-SCDMA RSSI	LTE RSSI	Comment
BAR 5->4	- 90dBm± 3dB	- 87dBm± 4dB	-85dBm ± 4dB	1. Call Connected & CPIPH Level=-3.3
BAR 4->3	- 95dBm± 3dB	- 92dBm± 4dB	-95dBm ± 4dB	
BAR 3->2	- 98dBm± 3dB	- 98dBm± 4dB	-105dBm ± 4dB	
BAR 2->1	- 102dBm± 3dB	- 102dBm± 4dB	-115dBm ± 4dB	
BAR 1->0	- 104dBm± 3dB	- 108dBm± 4dB	-128dBm ± 4dB	

2.4 Current consumption

Item	Specification		
	WCDMA	GSM	LTE
1. Sleep Mode	Under 9mA	Under 9mA	Under 9mA
2. Sleep : connector Ear jack	Under 10mA	Under 10mA	Under 10mA
3. Current(Sleep & Idle AVG)	Under 10mA @ DRX 7	Under 10mA @ P.P 5	Under 9mA @ 2.56s

2.5 Battery bar

Battery Bar	Specification	
BAR 20 (Full)	98% over	remain%
BAR 20 --> 19	98% ◊ 97%	
BAR 19 --> 18	93% ◊ 92%	
BAR 18 --> 17	88% ◊ 87%	
BAR 17 --> 16	83% ◊ 82%	
BAR 16 --> 15	78% ◊ 77%	
BAR 15 --> 14	73% ◊ 72%	
BAR 14 --> 13	68% ◊ 67%	
BAR 13 --> 12	63% ◊ 62%	
BAR 12 --> 11	58% ◊ 57%	
BAR 11 --> 10	53% ◊ 52%	
BAR 10 --> 9	48% ◊ 47%	
BAR 9 --> 8	43% ◊ 42%	
BAR 8 --> 7	38% ◊ 37%	
BAR 7 --> 6	33% ◊ 32%	
BAR 6 --> 5	28% ◊ 27%	
BAR 5 --> 4	23% ◊ 22%	
BAR 4 --> 3	16% ◊ 15%	
BAR 3 --> 2	13% ◊ 12%	
BAR 2 --> 1	8% ◊ 7%	
BAR 1 --> 0	3% ◊ 2%	
Low Battery Pop-up	15% , 5%, 1%	

2.6 SW Specification

Item	Feature	Comment
RSSI	0 ~ 5 Levels	
Battery Charging	0 ~ 20 Levels	
Key Volume	0 ~ 15 Level	
Audio Volume	0 ~ 15 Level	
Time / Date Display	Yes	
Multi-Language	Yes	depending on build language
Quick Access Mode	Phone / Messaging / Camera / Gallery / Chrome	
PC Sync	Yes	
Speed Dial	Yes	Voice mail center -> 1 key
Profile	Yes	not same with feature phone setting
CLIP / CLIR	Yes	
Phone Book	Name / Number / Email / Groups / Groups / Address / Ringtone / Notification sound / Phonetic name / Organizations / IM / Note / Nickname / Website / Event	There is no limitation on the number of items. It depends on available memory amount.
Last Dial Number	Yes	
Last Received Number	Yes	
Last Missed Number	Yes	
Search by Number/Name	Yes	
Group	Yes	There is no limitation on the number of items. It depends on available memory amount.
Fixed Dial Number	Yes	
Service Dial Number	No	
Own Number	Yes	My Profile (add/edit/delete are supported)

2.6 SW Specification

Voice Memo	Yes	Support voice recorder
Call Reminder	No	
Network Selection	Automatic	
Mute	Yes	
Call Divert	Yes	
Call Barring	Yes	
Call Charge (AoC)	No	
Call Duration	Yes	
SMS (EMS)	There is no limitation on the number of items . It depends on available memory amount.	EMS does not support.
SMS Over GPRS	No	
EMS Melody / Picture Send / Receive / Save	No	
MMS MPEG4 Send / Receive / Save	Yes	➢ **Send / Receive** : Yes ➢ **Save** : depends on content type Support video content type list 1. video/mp4 2. video/h263 3. video/3gpp2 video/3gpp
Long Message	MAX 2000 characters	The standard of Open vender
Cell Broadcast	Yes	
Download	Over the Web	
Game	No	
Calendar	Yes	
Memo	Yes	There is no limitation on the number of items. It depends on available memory amount.
World Clock	Yes	

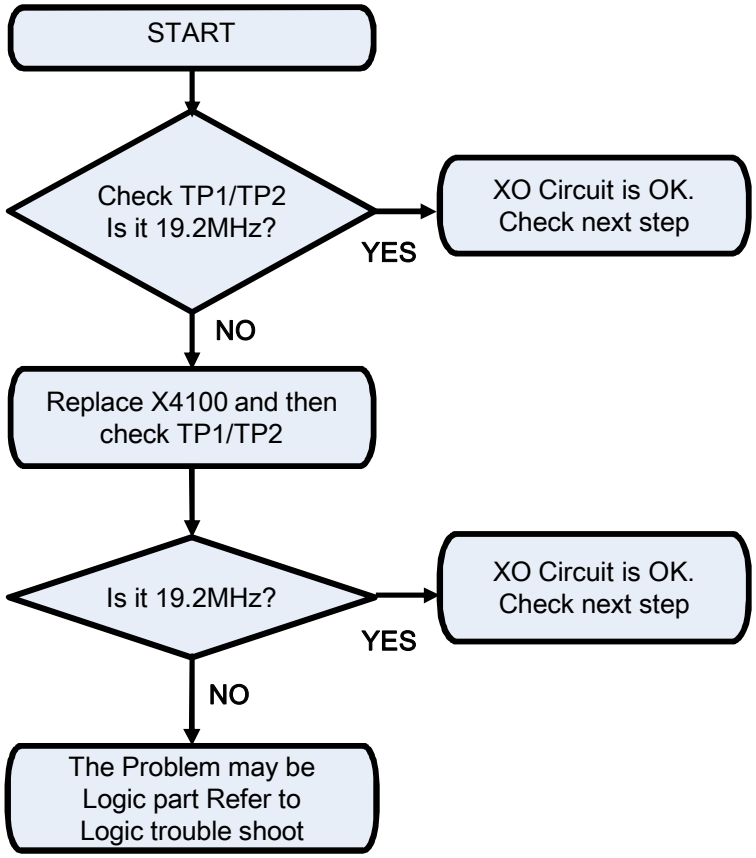
2.6 SW Specification

Unit Convert	No	
Stop Watch	Yes	
Wall Paper	Yes	
WAP Browser	No	Support only web browser based on webkit. WAP stack and wml are not supported.
Download Melody / Wallpaper	Yes	Over web browser
SIM Lock	No	Operator Dependent
SIM Toolkit	Yes	
MMS	Yes	Google MMS Client
EONS	Yes	
CPHS	Yes	V4.2
ENS	No	
Camera	Yes	13M AF / Digital Zoom : x4
JAVA	No	
Voice Dial	Yes	Google search
IrDa	No	
Bluetooth	Yes	Ver. 4.2
FM radio	Yes	
GPRS	Yes	Class 33
EDGE	Yes	Class 33
Hold / Retrieve	Yes	
Conference Call	Yes	
DTMF	Yes	
Memo pad	No	
TTY	No	
AMR	Yes	
SyncML	No	
IM	Yes	Google Hangout
Email	Yes	

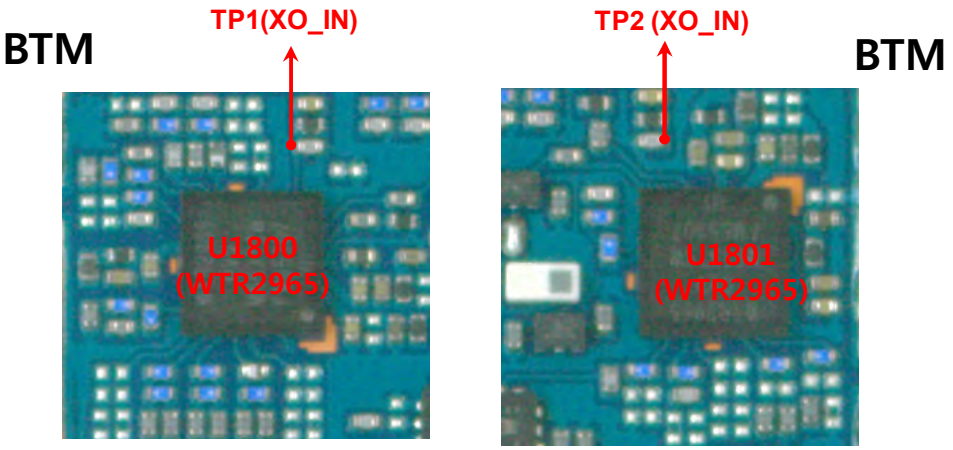
3.1.1 Checking XO Block

The output frequency(19.2MHz) of XO(X4100) is used as the reference one of WTR2965 and PM8940 internal VCO

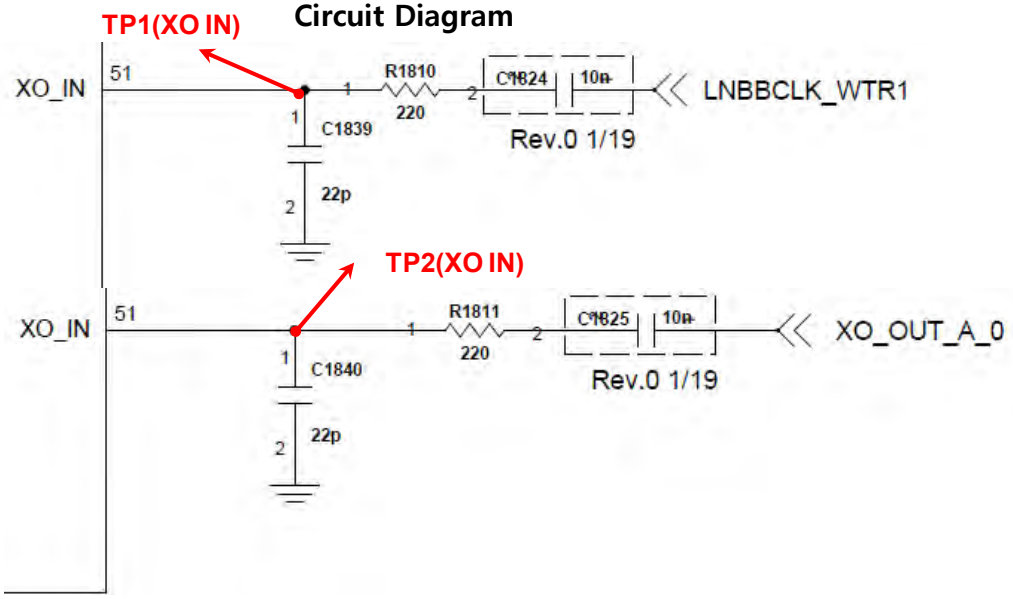
Checking Flow



Image



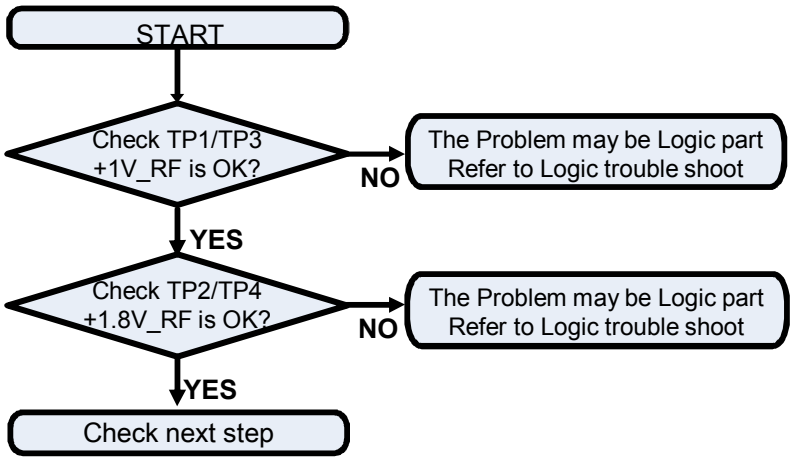
Circuit Diagram



3.2.1 Transceiver WTR2965 DC Power Supply Circuit

Checking Transceiver WTR2965 DC Power Supply Circuit

Checking Flow



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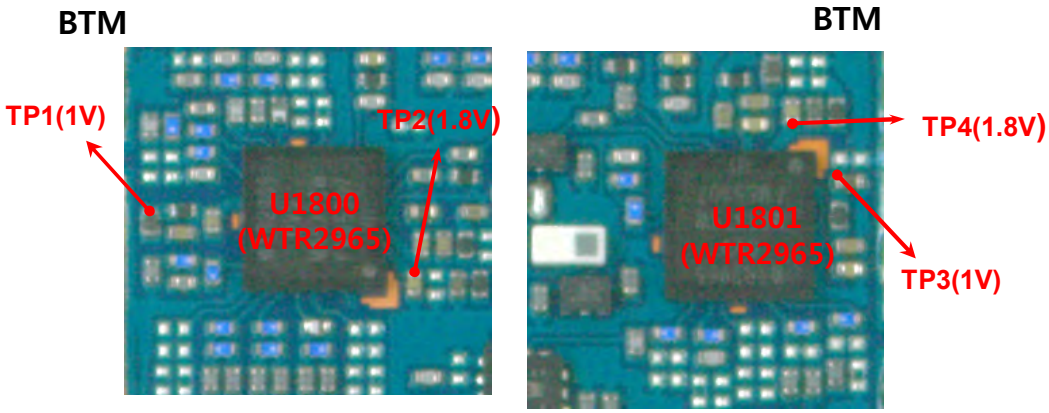
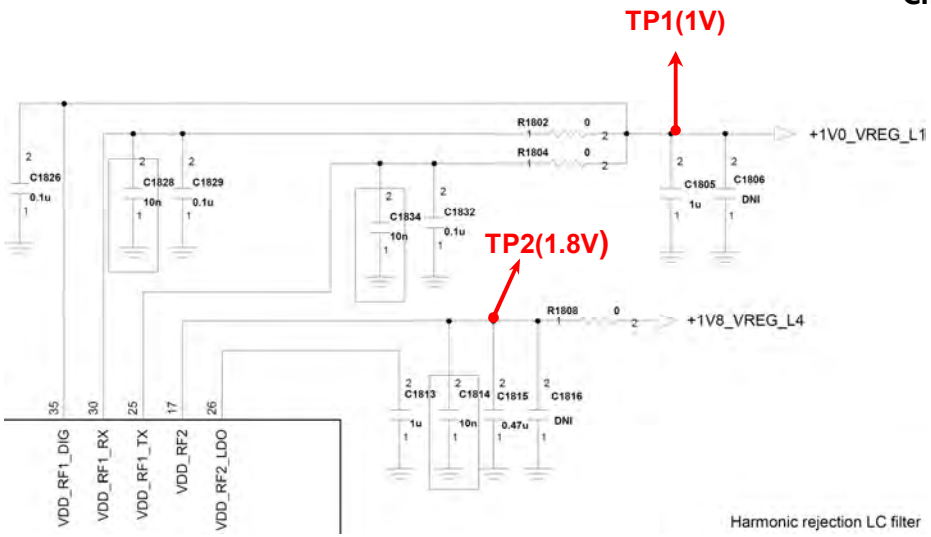
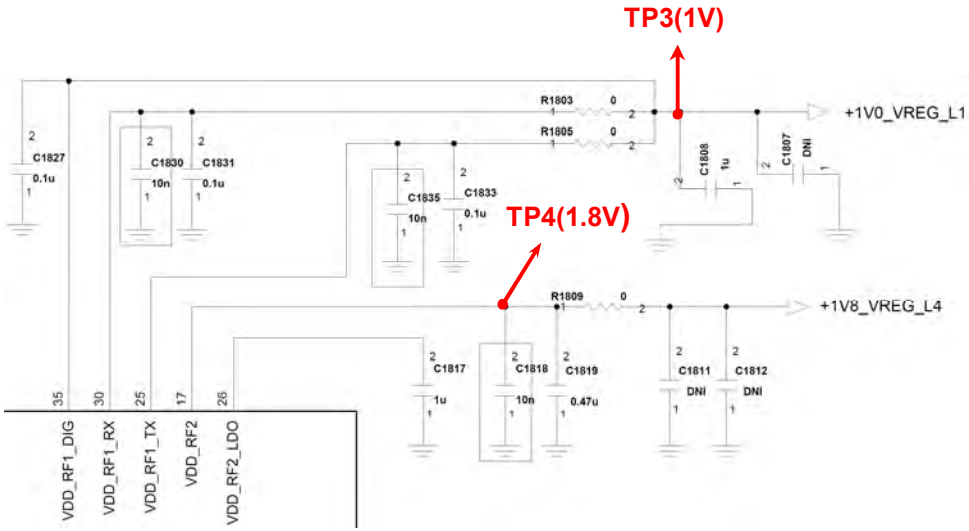


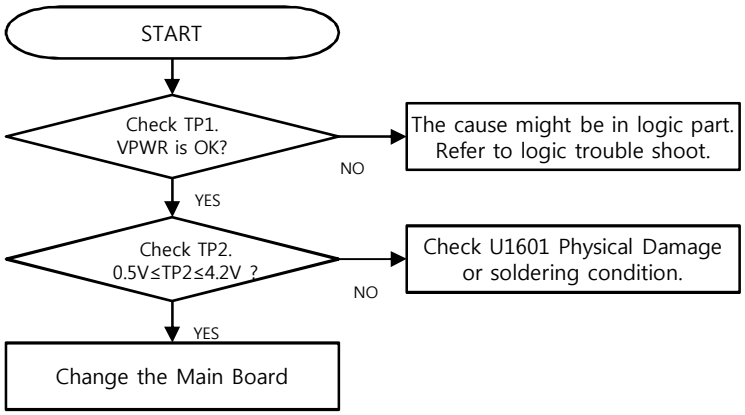
Circuit Diagram





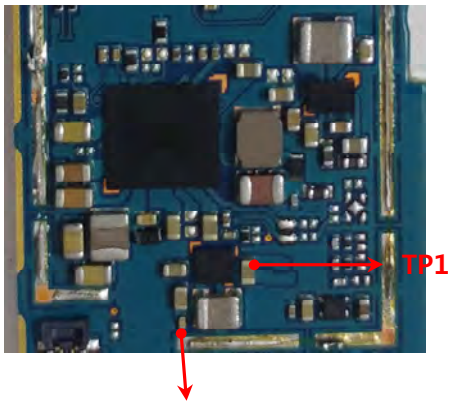
Checking DC-DC(QFE2101) Block

Checking Flow

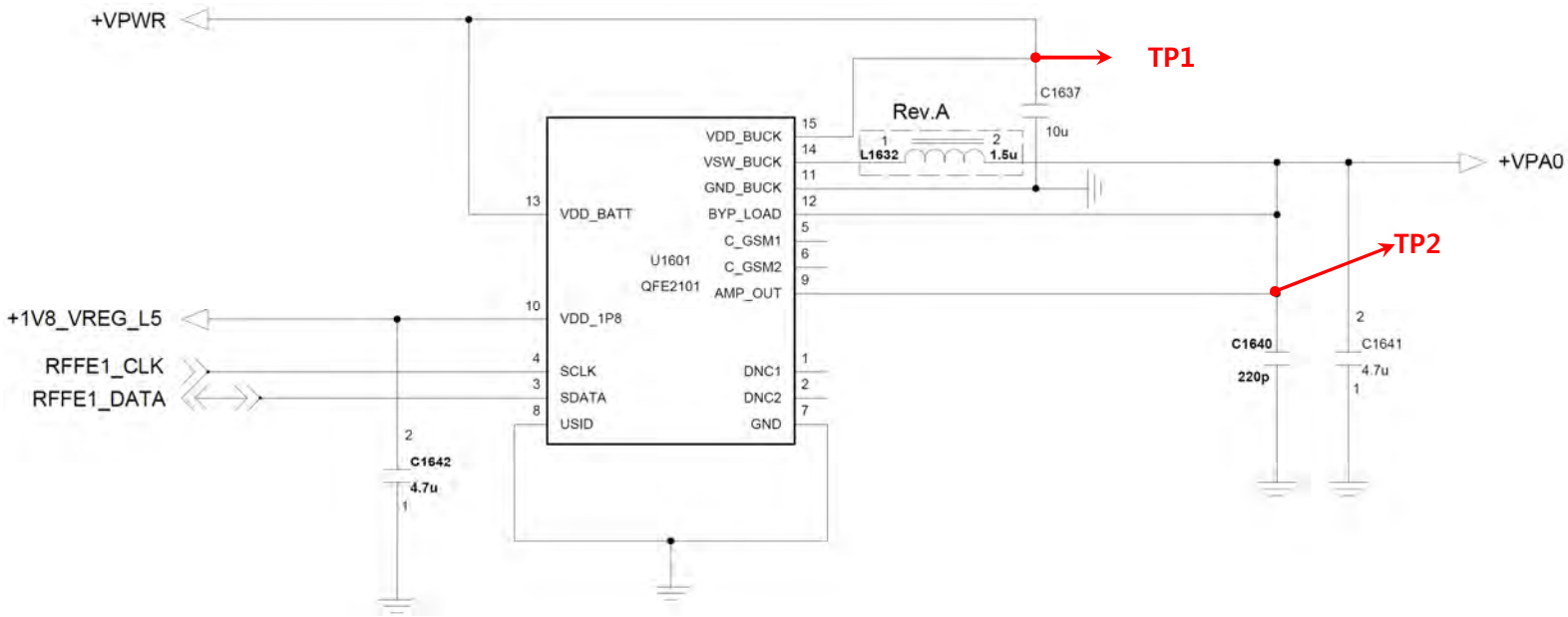


Image

BTM

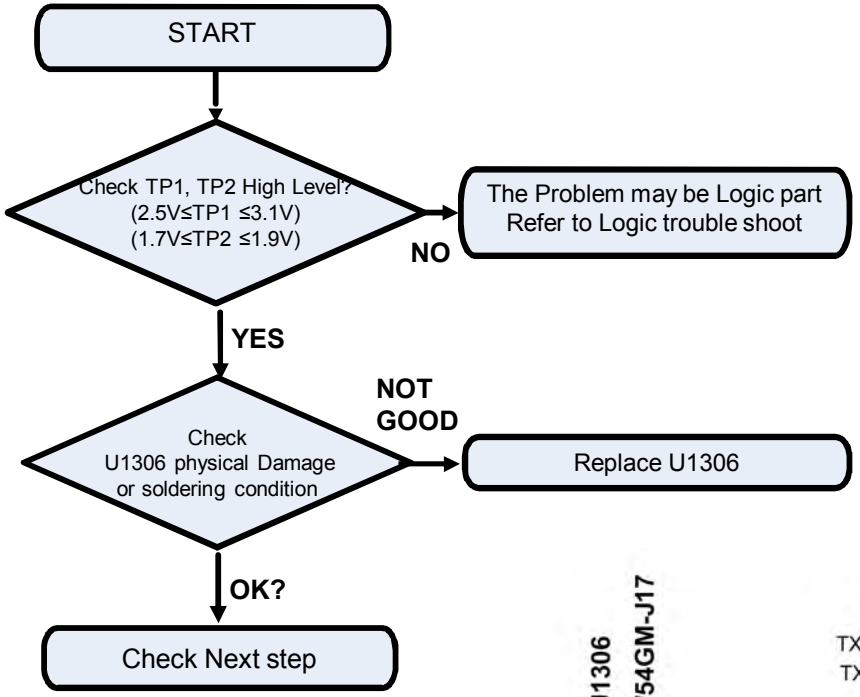


Circuit Diagram



Checking FEMiD Block

Checking Flow



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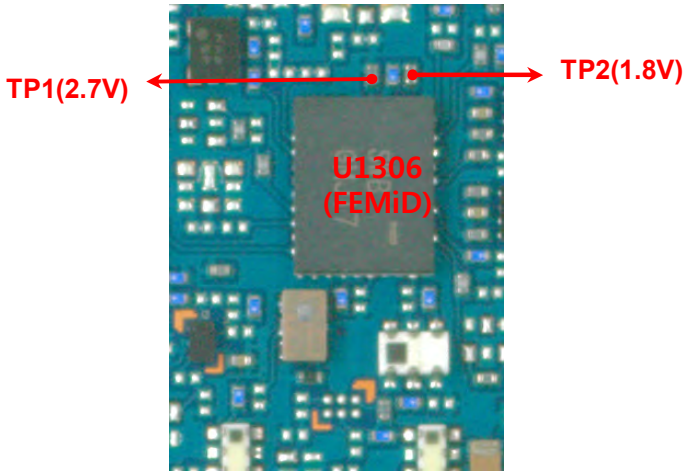
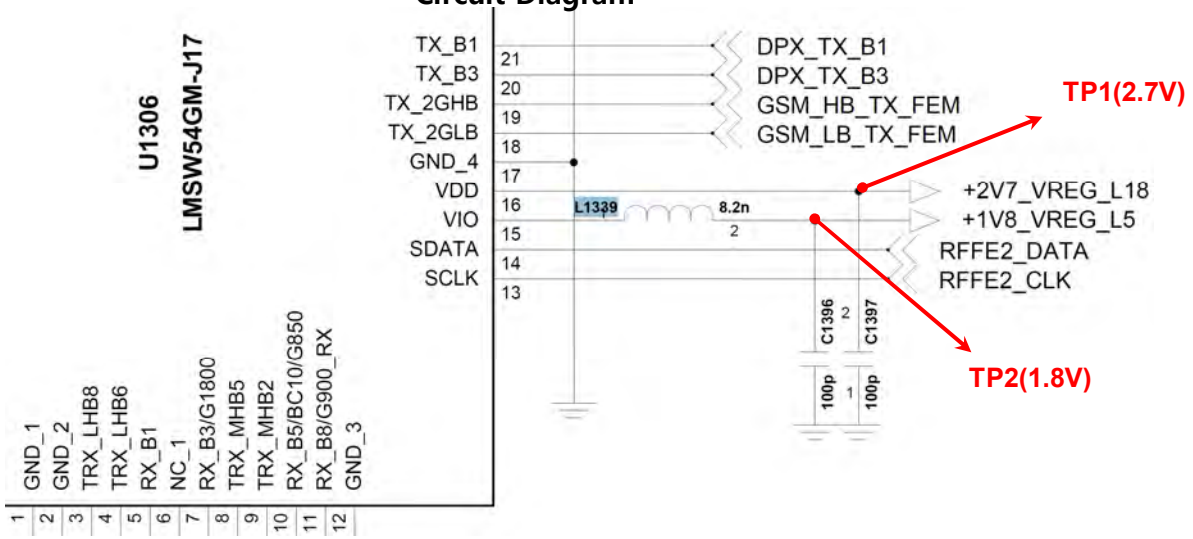


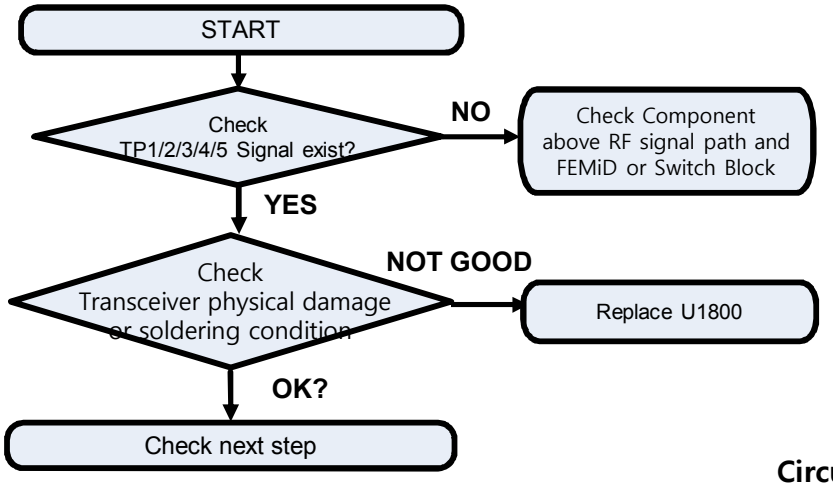
Circuit Diagram



3.5.1 GSM, WCDMA, LTE PART - PRx

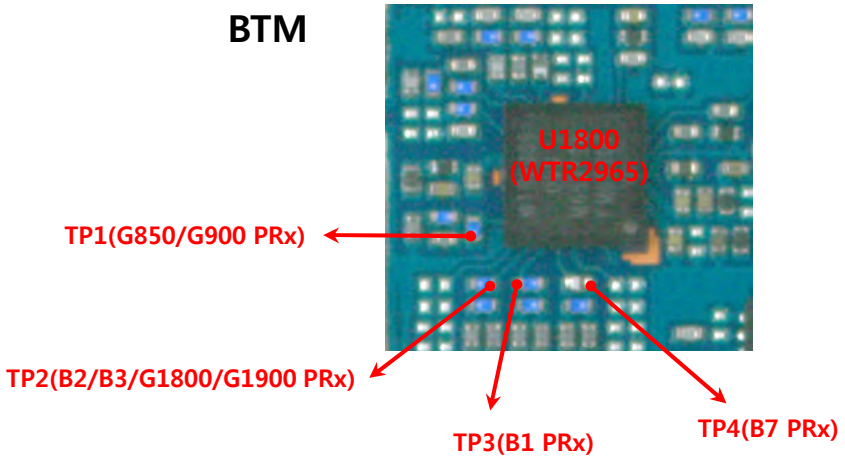
Checking Rx signal path (GSM 850/900/1800/1900 WCDMA B1/B2/B3, LTE B1/B2/B3/B7)

Checking Flow



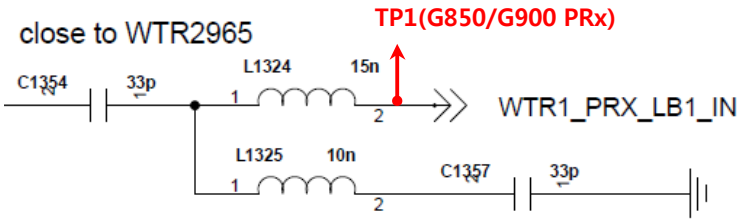
Image

BTM

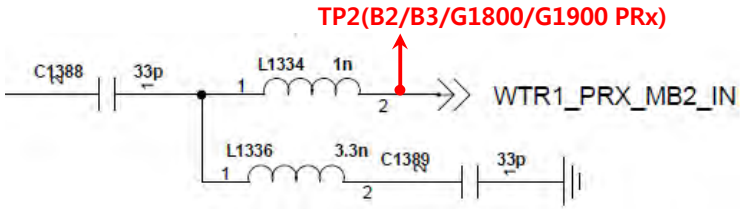


Circuit Diagram

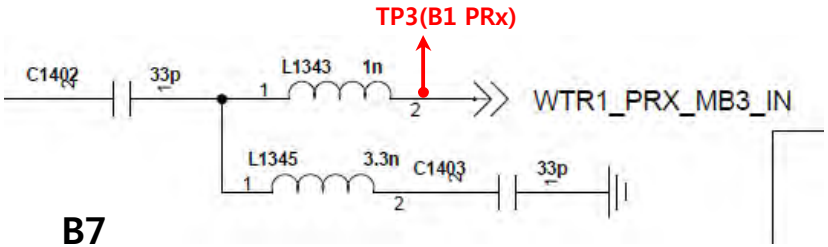
G850/G900



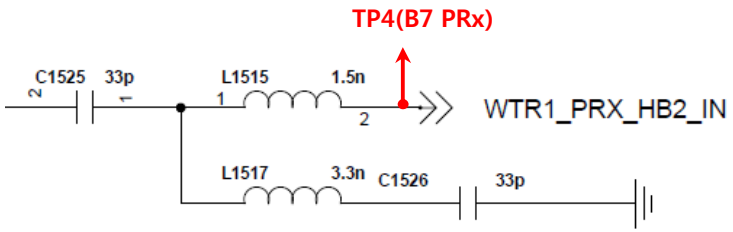
B2/B3/G1800/G1900



B1/B4



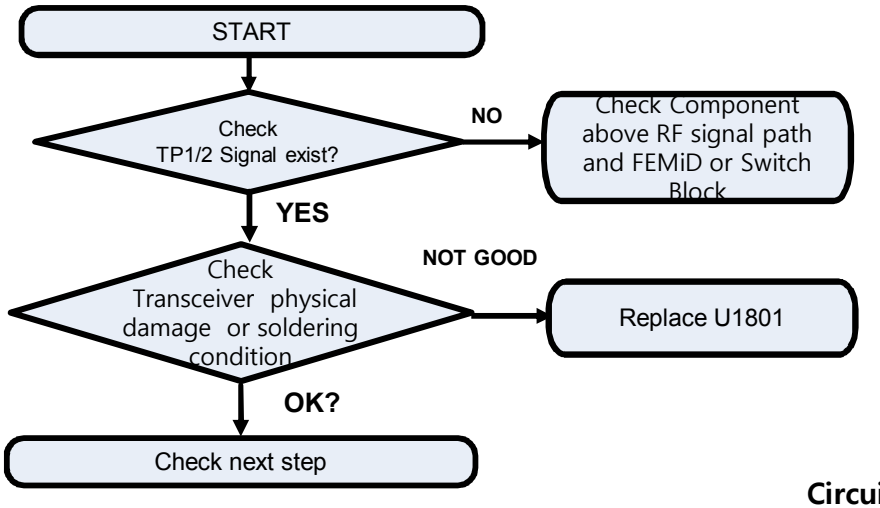
B7



3.5.1 GSM, WCDMA, LTE PART - PRx

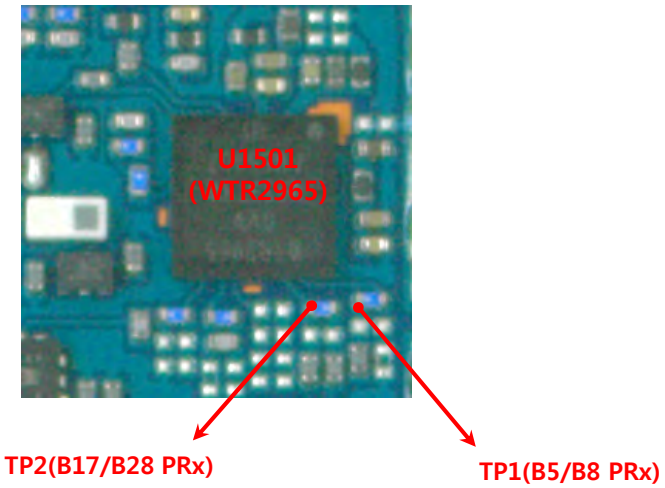
Checking Rx signal path (WCDMA B5/B8, LTE B5/B17/B28)

Checking Flow



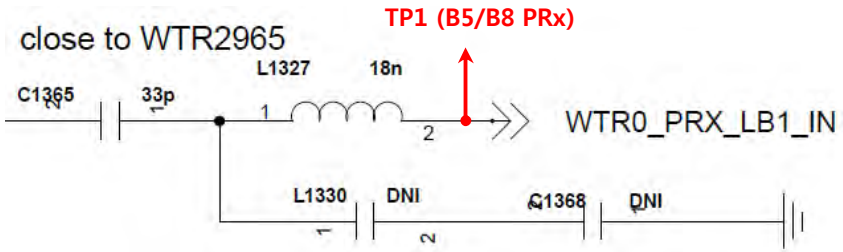
Image

BTM

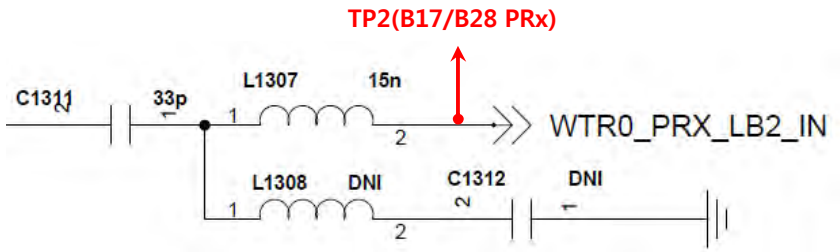


Circuit Diagram

B5/B8



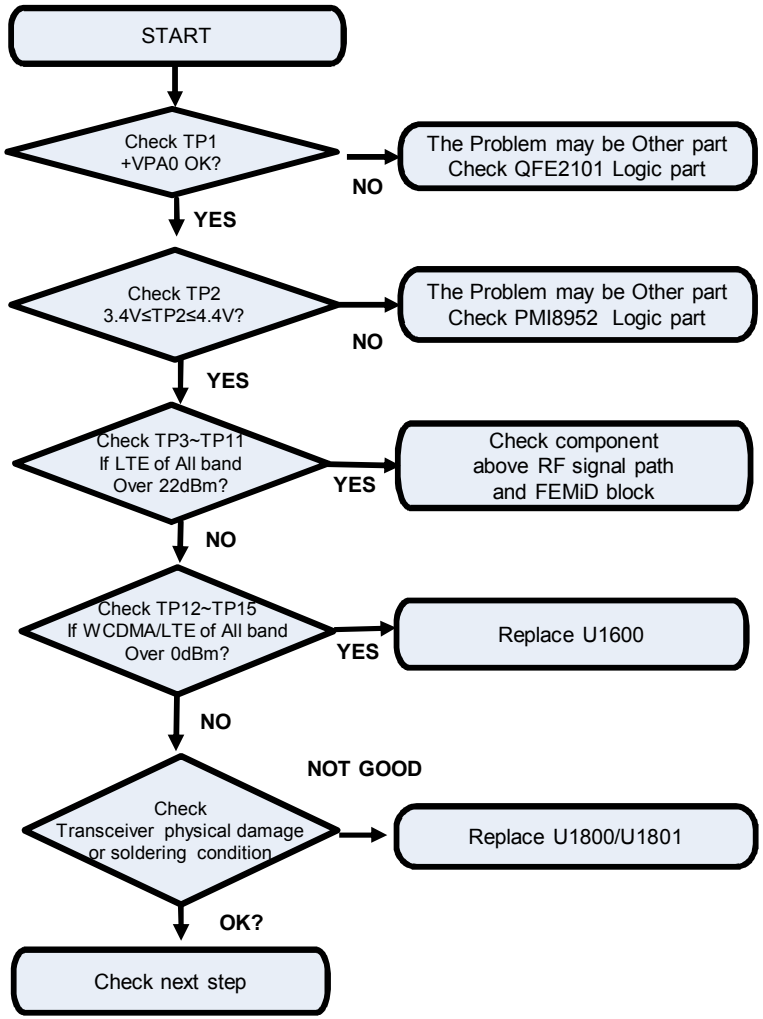
B17/B28



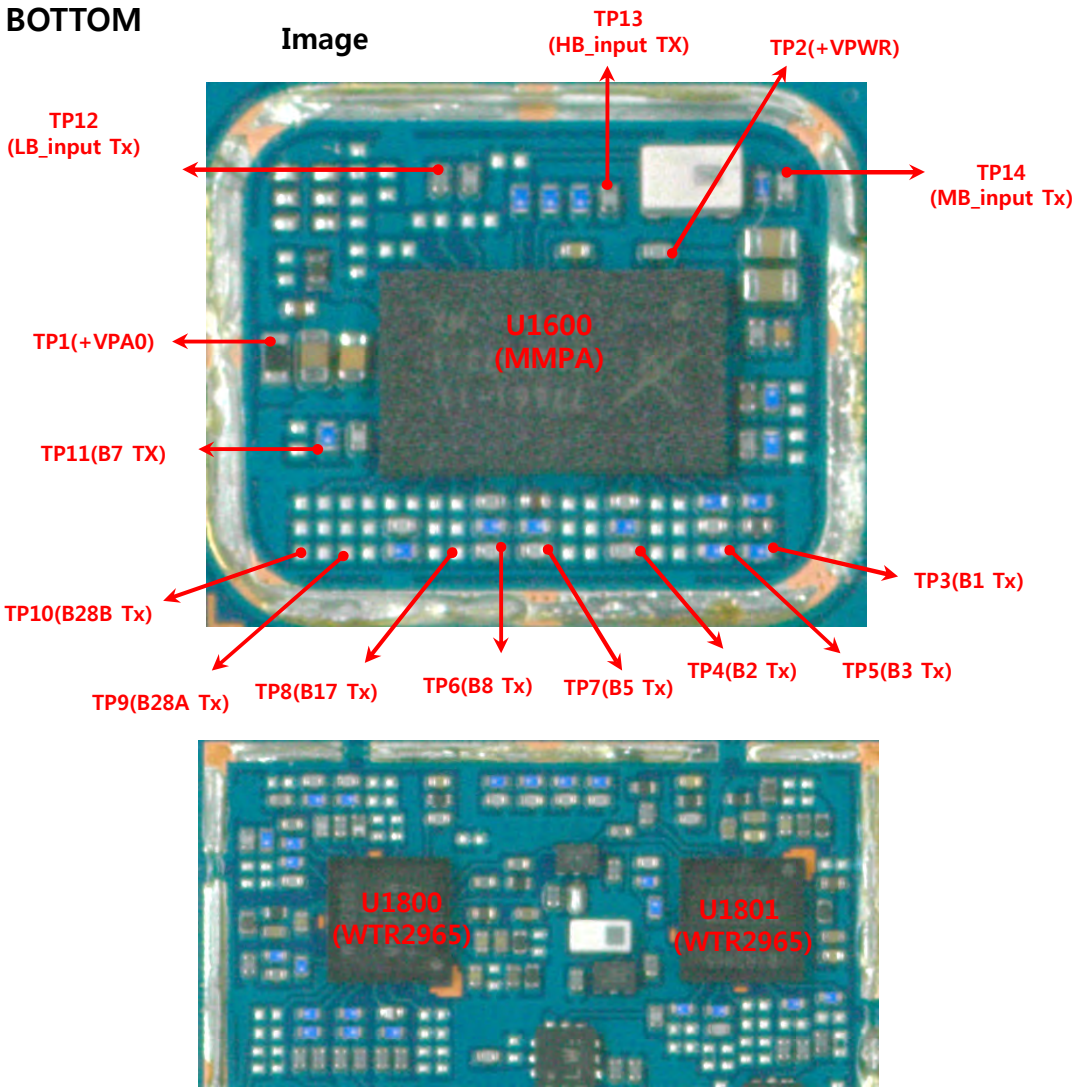
3.5.2 GSM, WCDMA, LTE PART - Tx

Checking Tx signal path(WCDMA B1/B2/B3/B5/B8, LTE B1/B2/B3/B5/B7/B17/B28)

Checking Flow

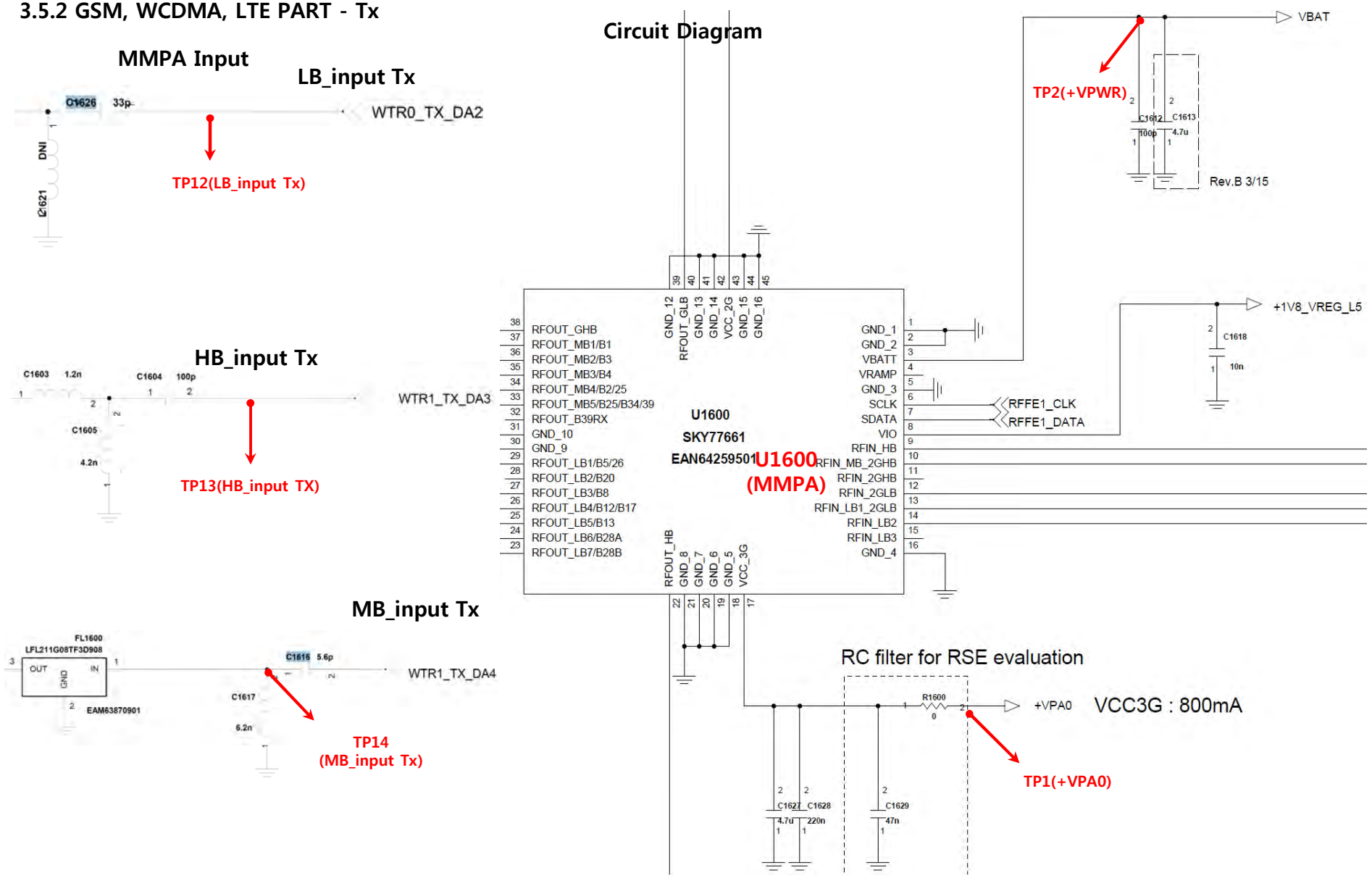


BOTTOM Image



LGE Internal Use Only

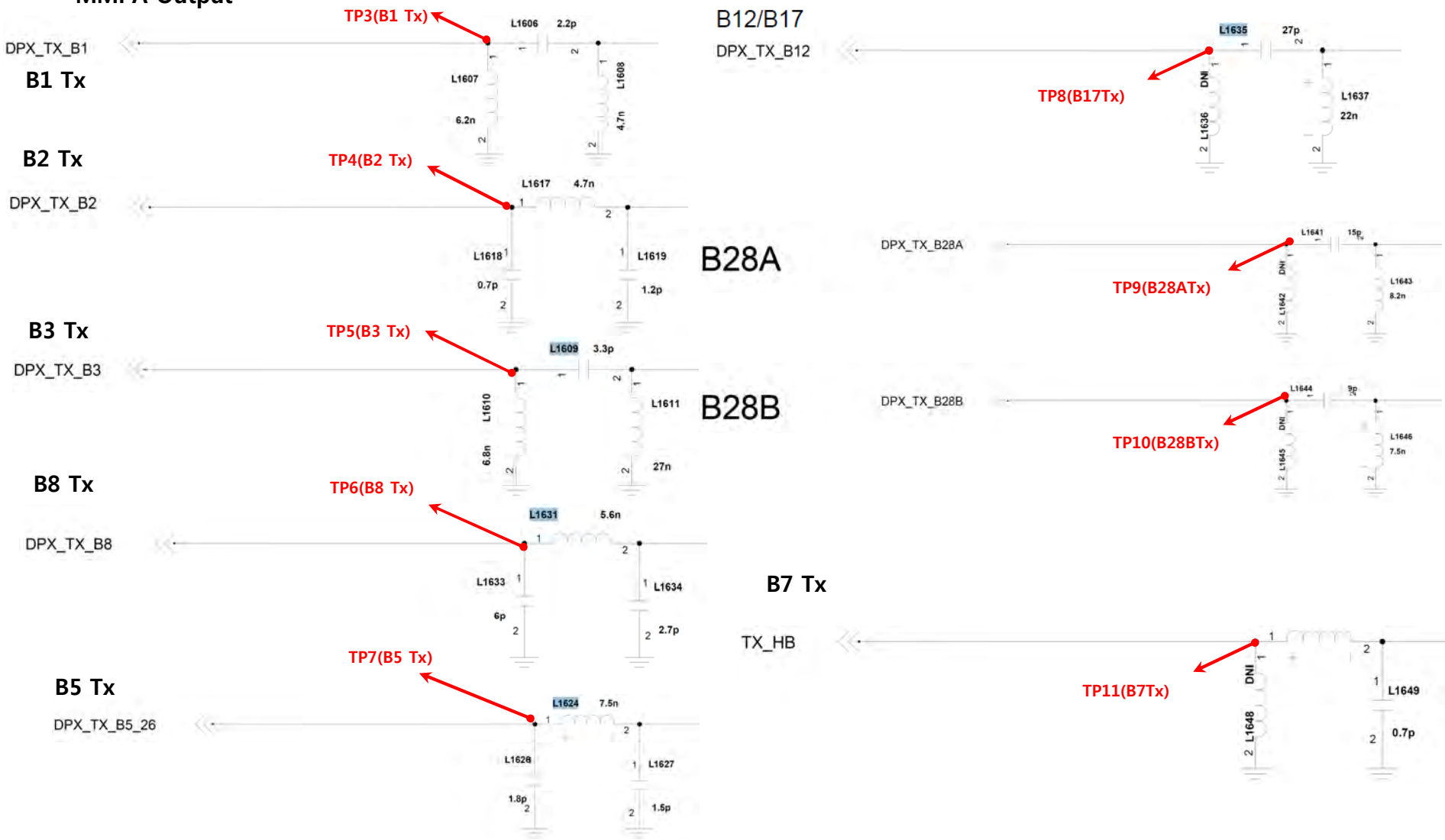
3.5.2 GSM, WCDMA, LTE PART - Tx



3.5.2 GSM, WCDMA, LTE PART - Tx

MMPA Output

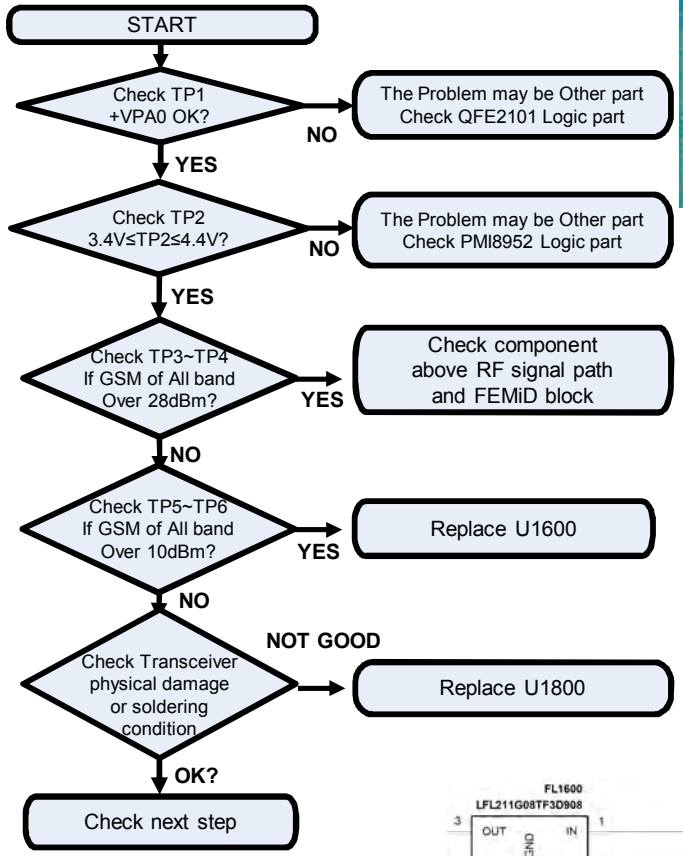
Circuit Diagram



3.5.2 GSM, WCDMA, LTE PART - Tx

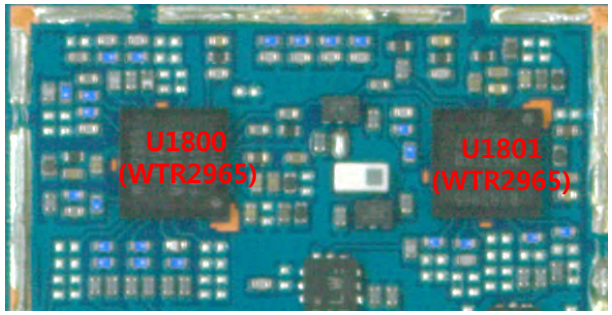
Checking Tx signal (GSM850/900/1800/1900)

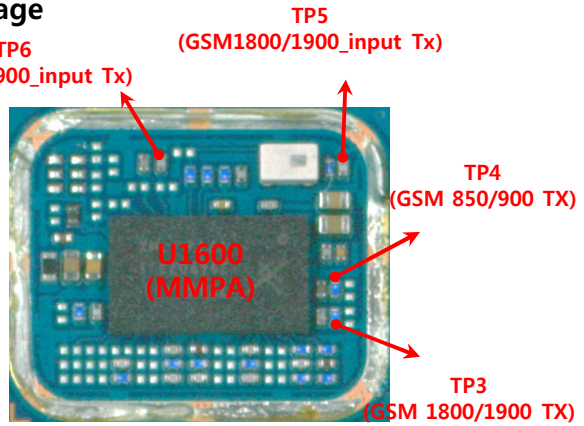
Checking Flow



Image

BOTTOM



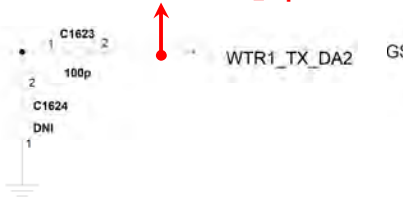


Circuit Diagram

MMPA Input

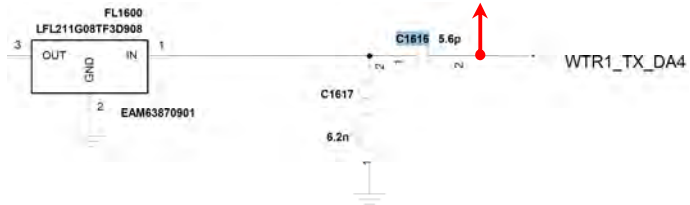
GSM 850/900

TP6(GSM 850/900_input TX)



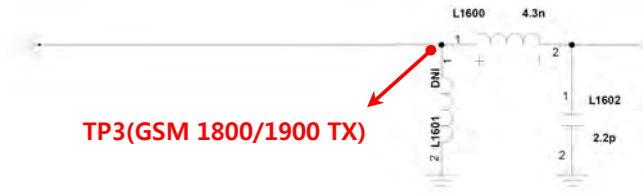
GSM 1800/1900

TP5(GSM 1800/1900_input TX)



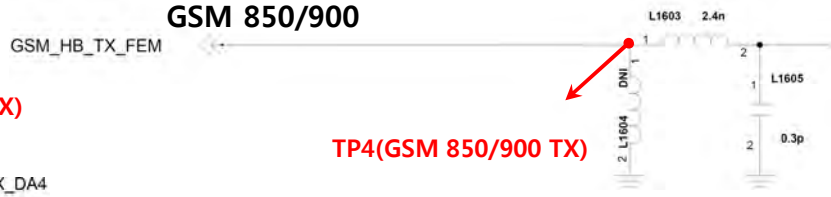
MMPA Output

GSM 1800/1900



TP3(GSM 1800/1900 TX)

GSM 850/900

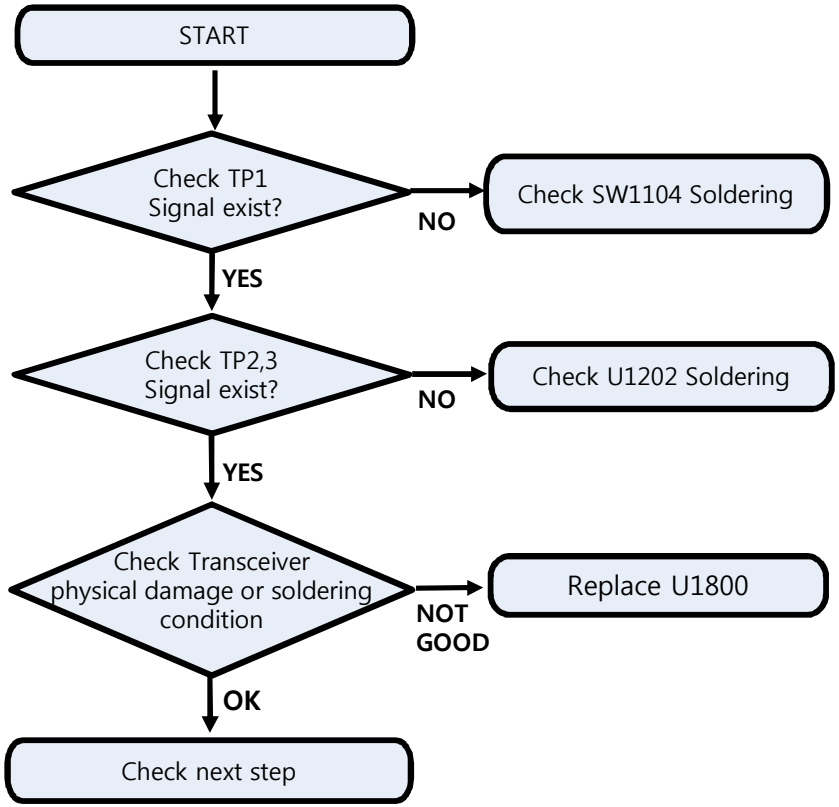


TP4(GSM 850/900 TX)

3.5.3 GSM, WCDMA, LTE PART - DRX

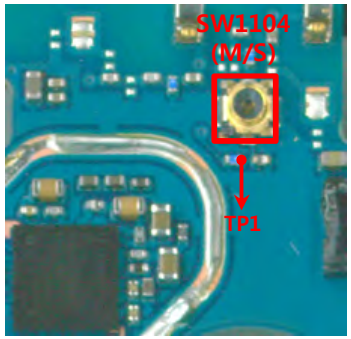
Checking DRX RF signal path (WCDMA B1/B2/B3 LTE B1/B2/B3 GSM 1800/1900)

Checking Flow

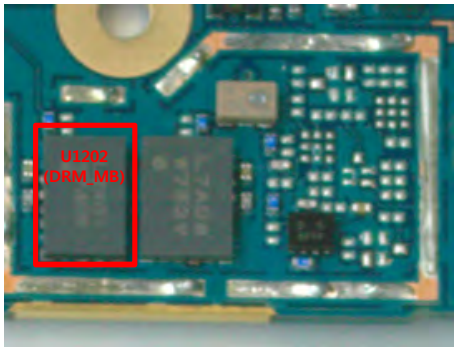


Image

BOTTOM



TOP



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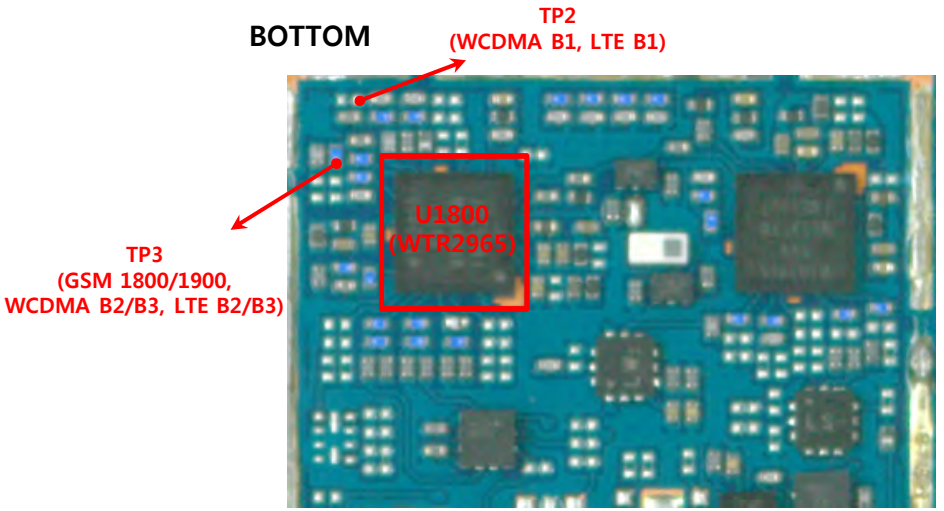
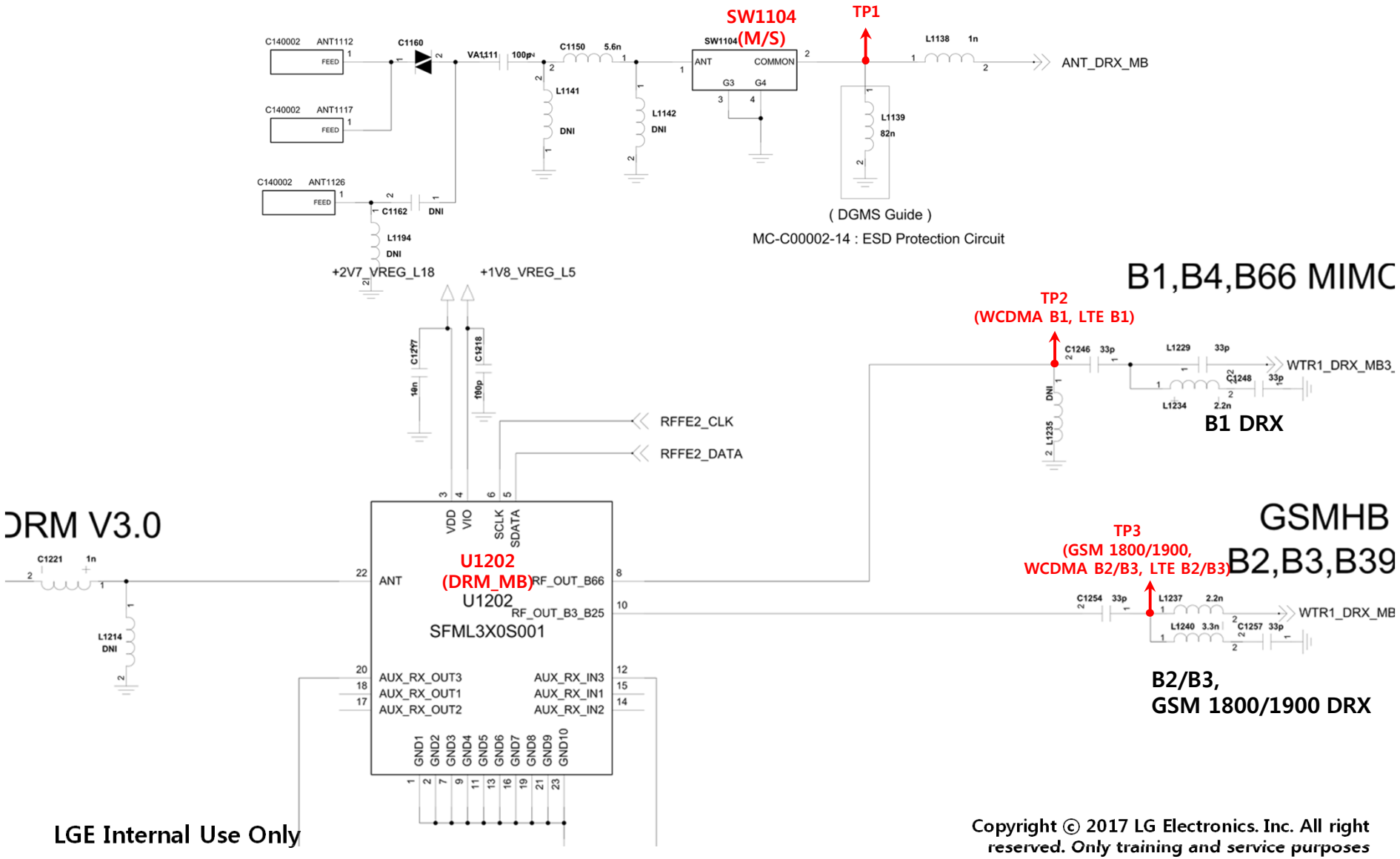


3.5.3 GSM, WCDMA, LTE PART - DRX

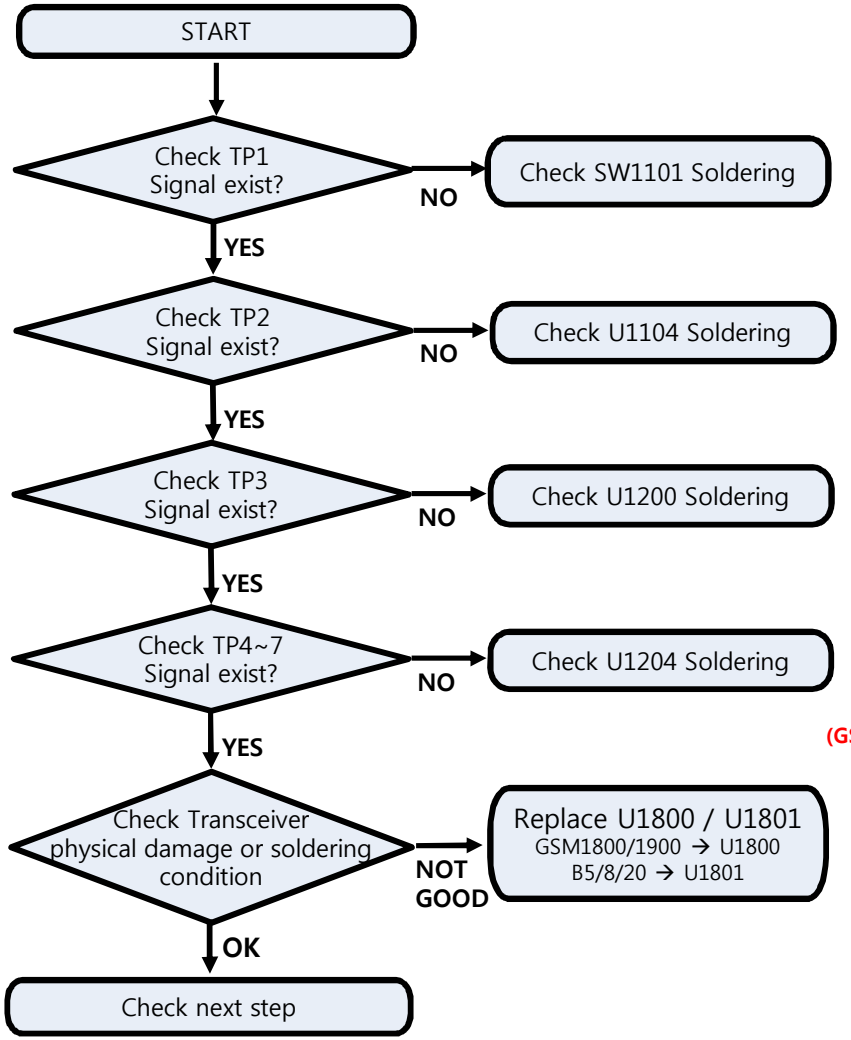
Circuit Diagram



3.5.3 GSM, WCDMA, LTE PART - DRX

Checking DRX RF signal path (WCDMA B5/B8 LTE B5/B8/B17/B28 GSM 850/900)

Checking Flow



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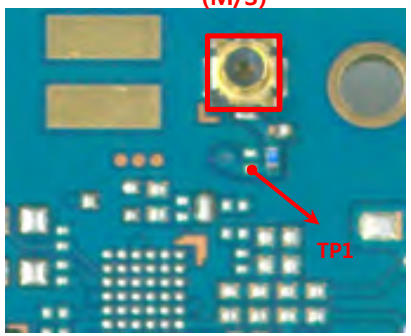

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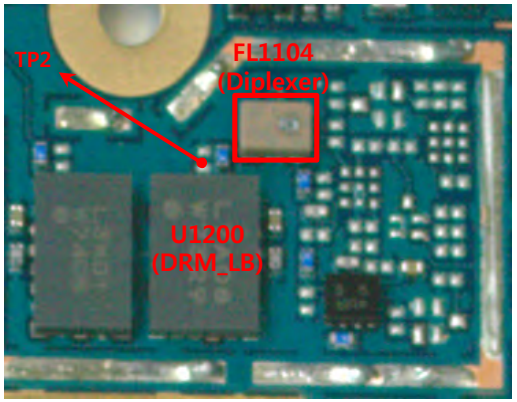

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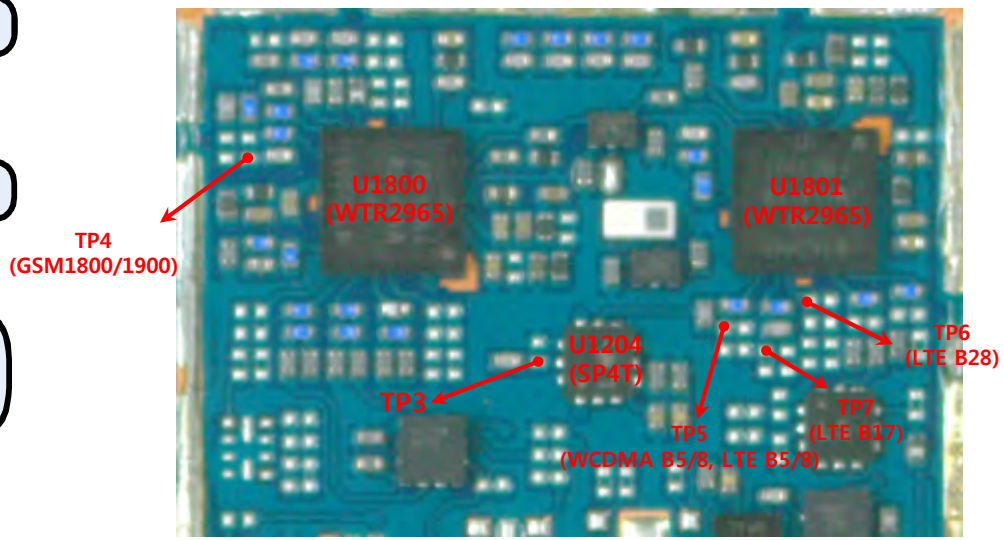

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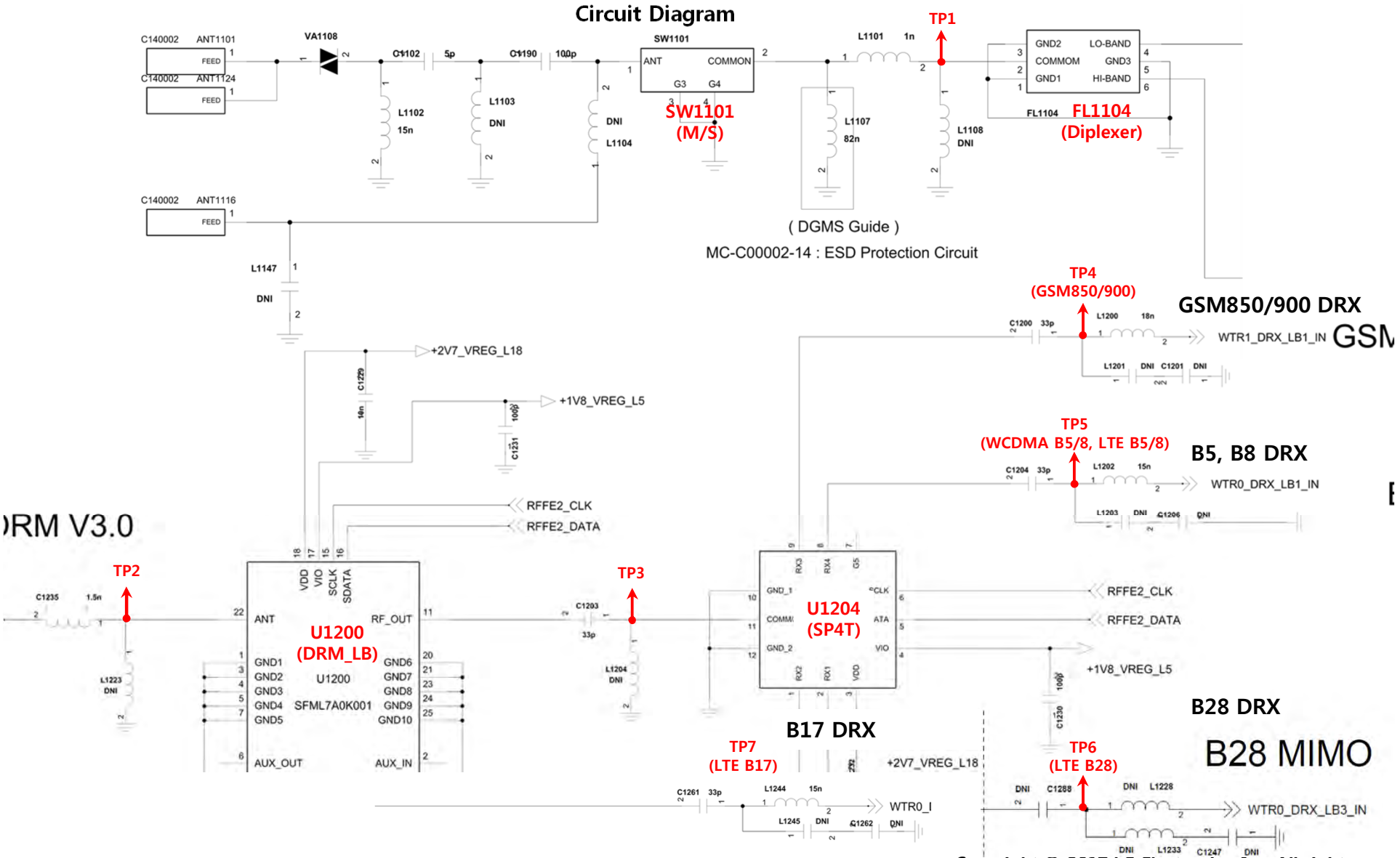
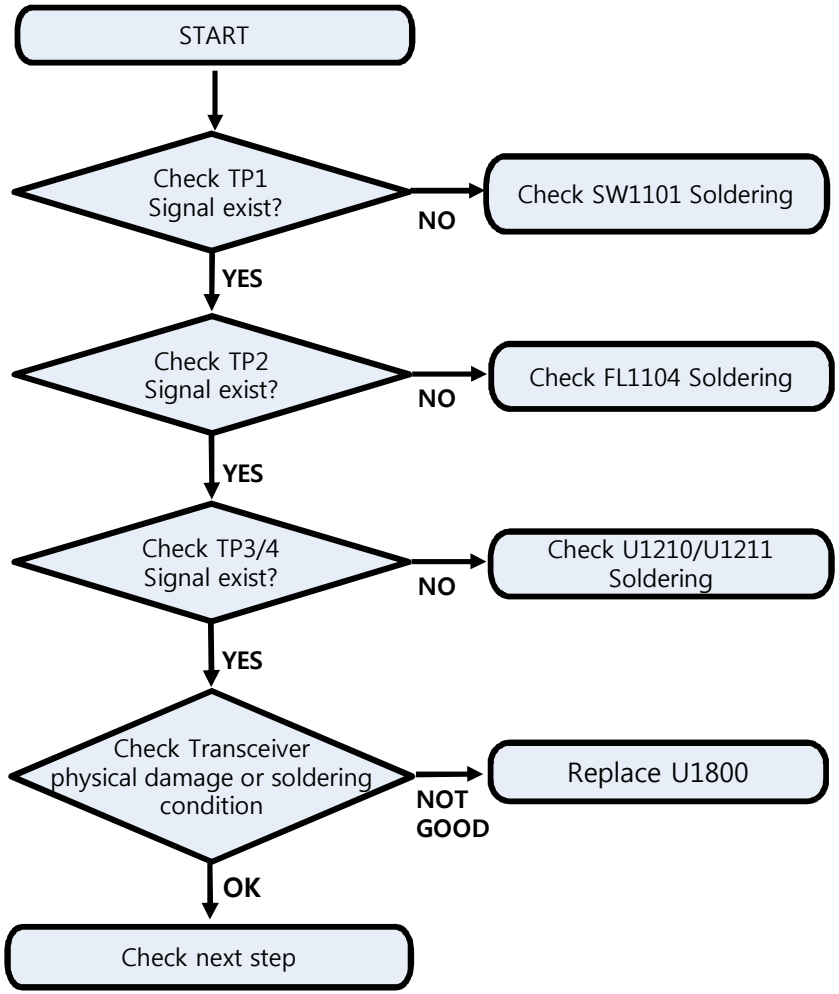
3.5.3 GSM, WCDMA, LTE PART - DRX



3.5.3 GSM, WCDMA, LTE PART - DRX

Checking DRX RF signal path (LTE B7)

Checking Flow



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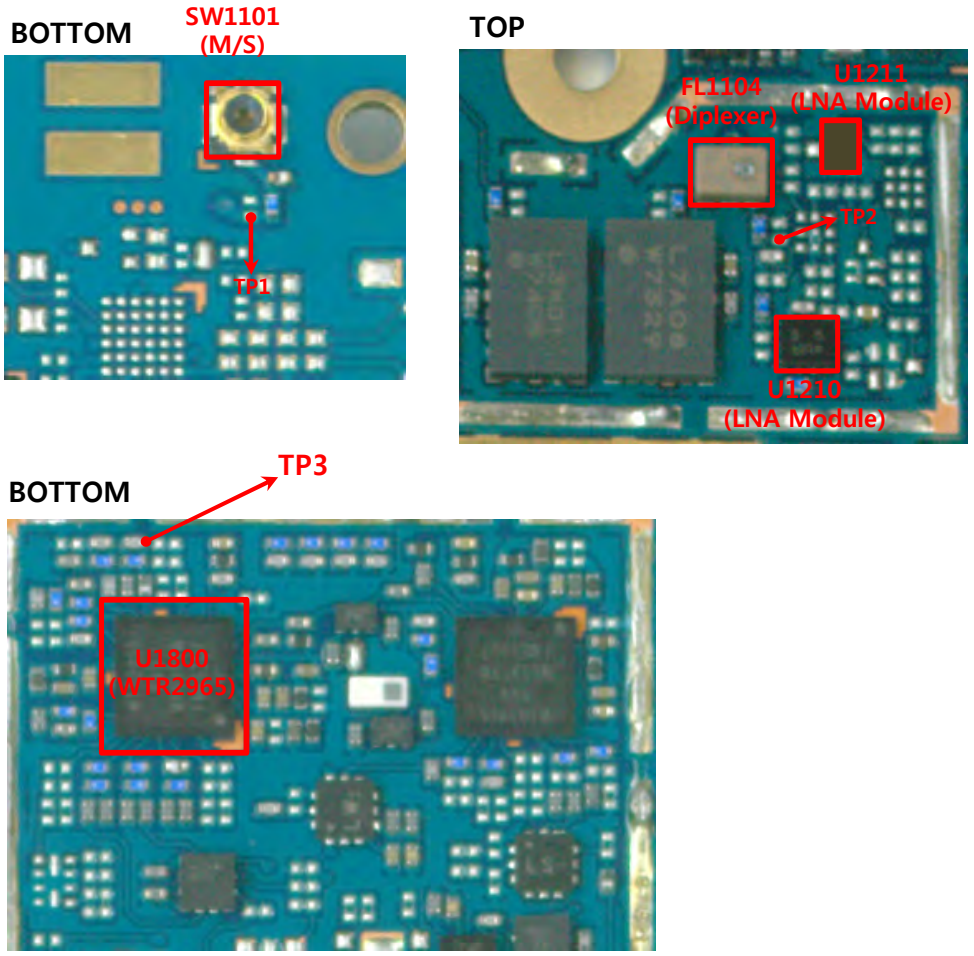

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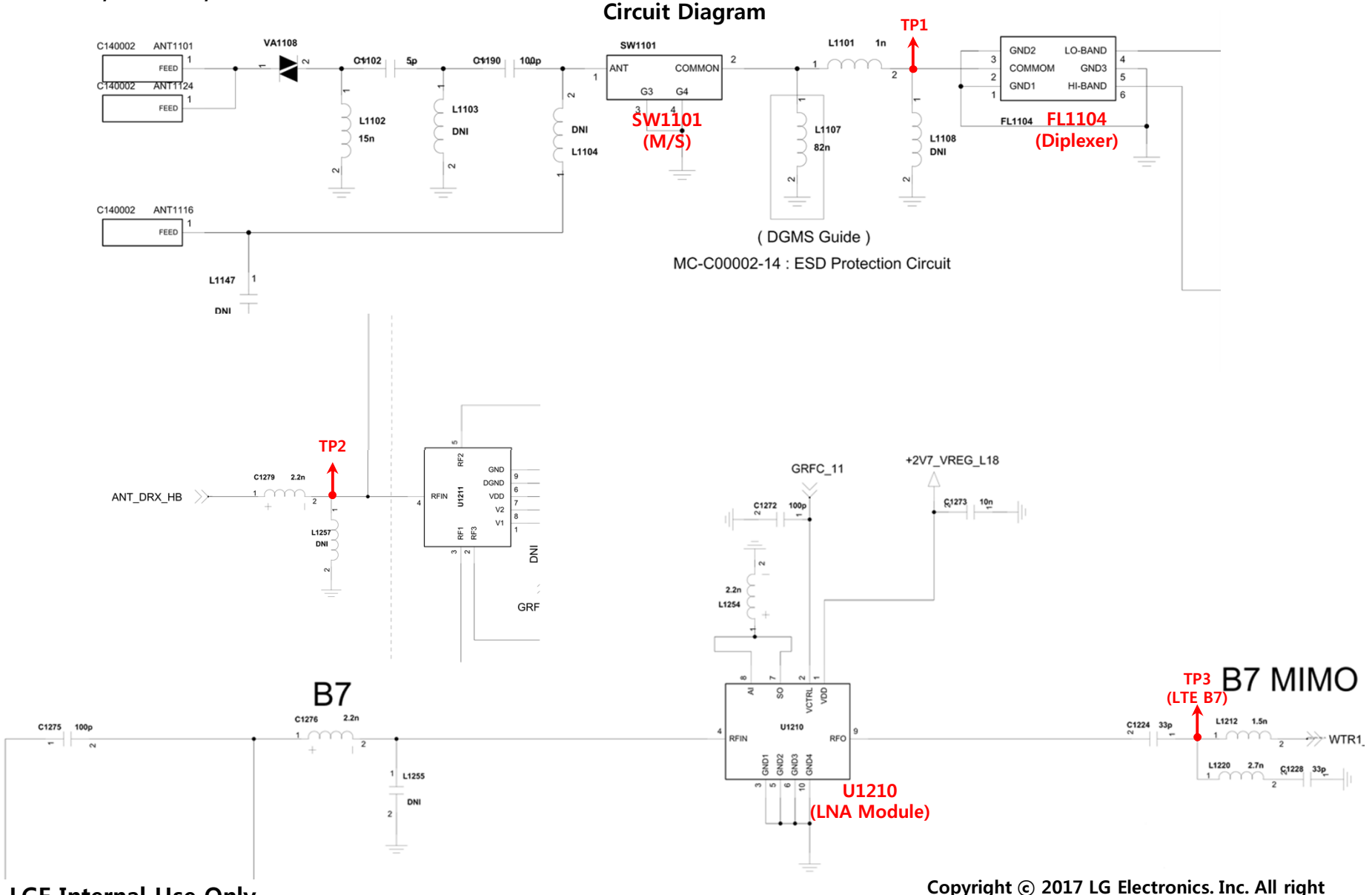
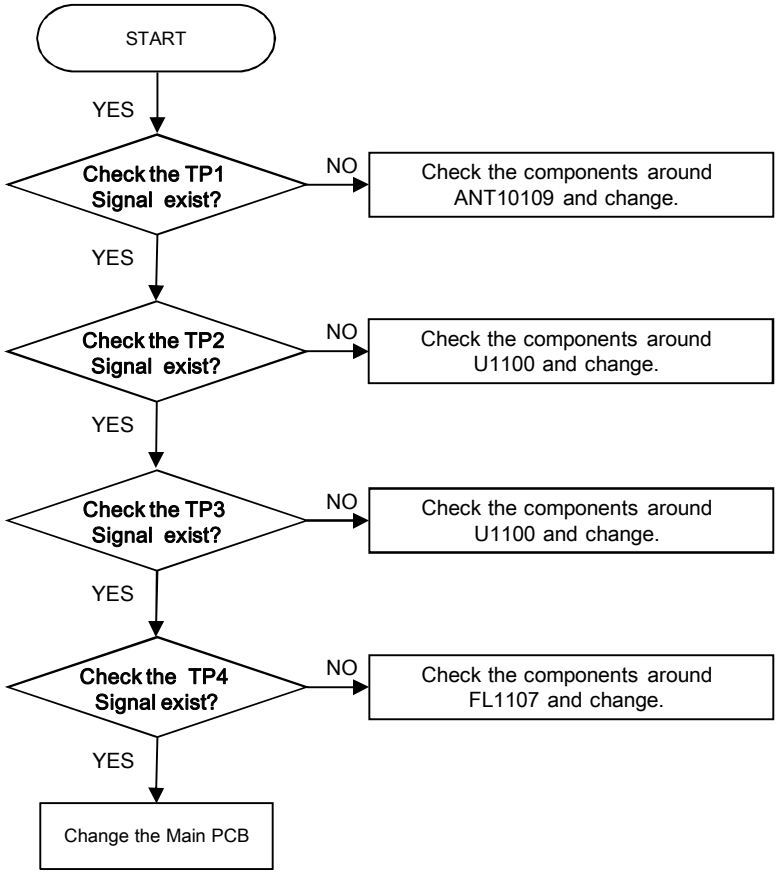
3.5.3 GSM, WCDMA, LTE PART - DRX

Circuit Diagram



Checking Flow



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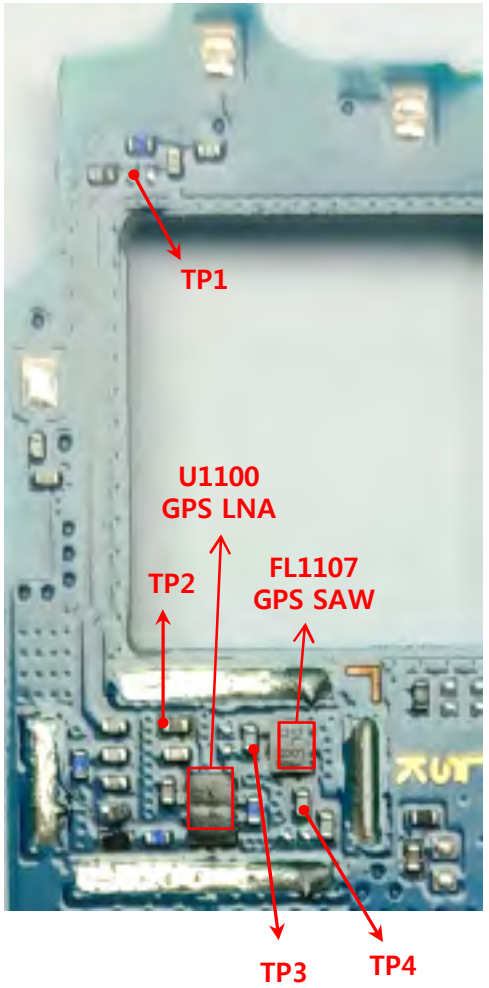
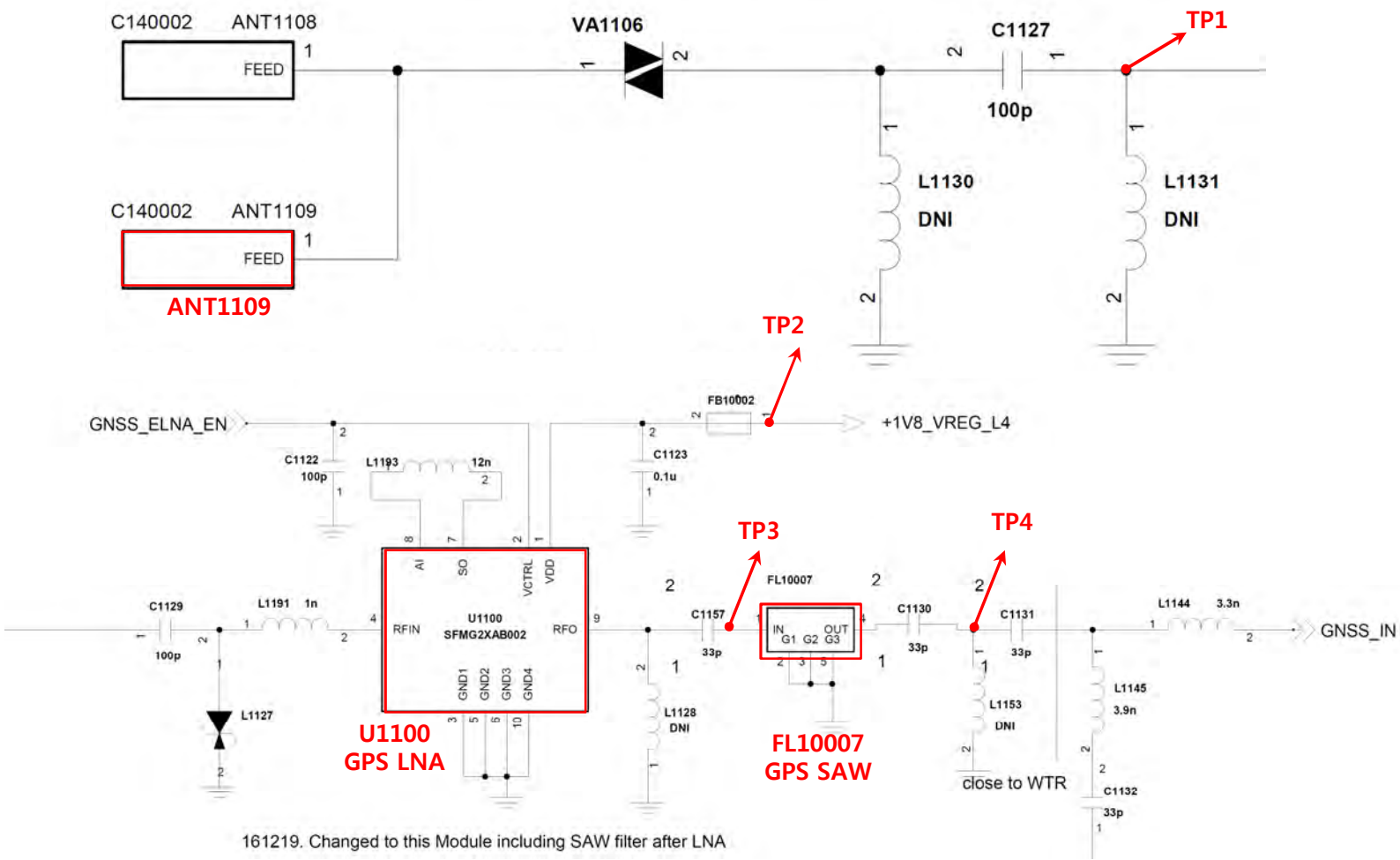
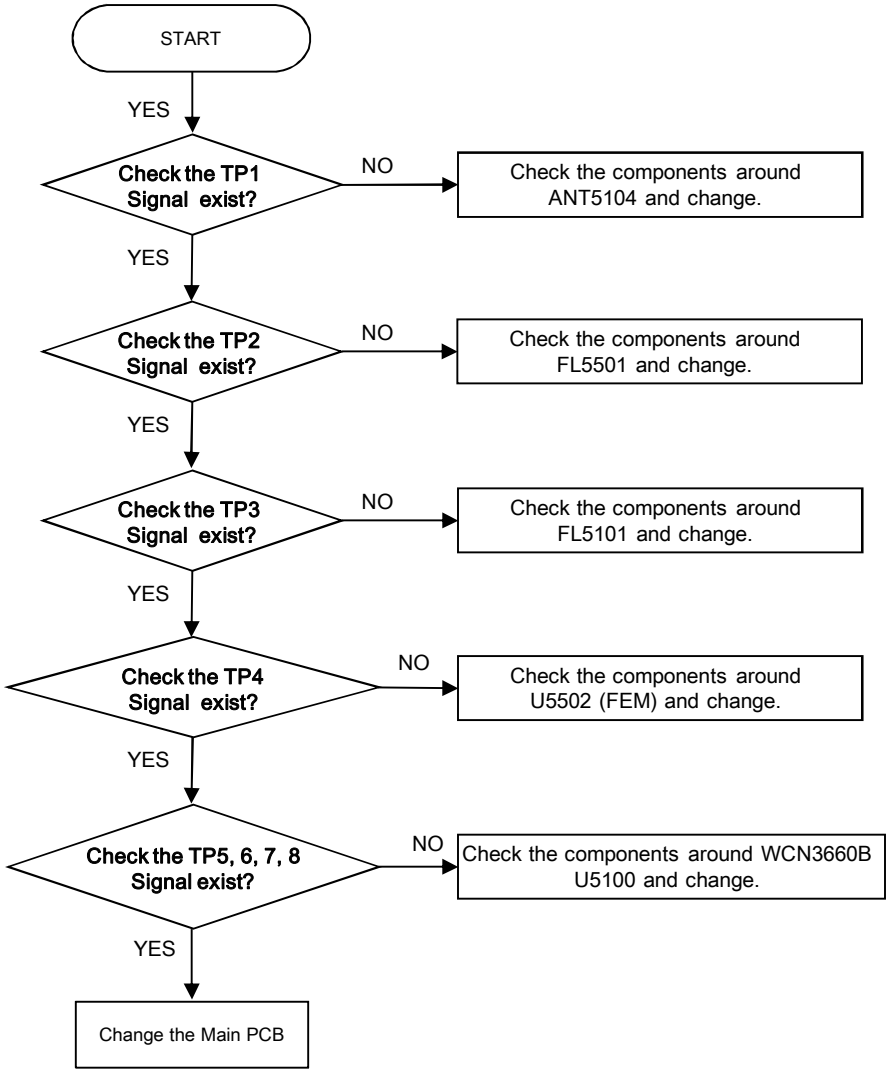
BOTTOM



Circuit Diagram



Checking Flow



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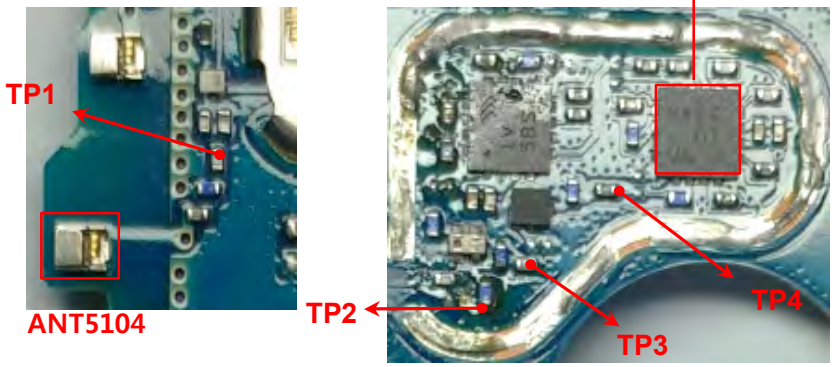

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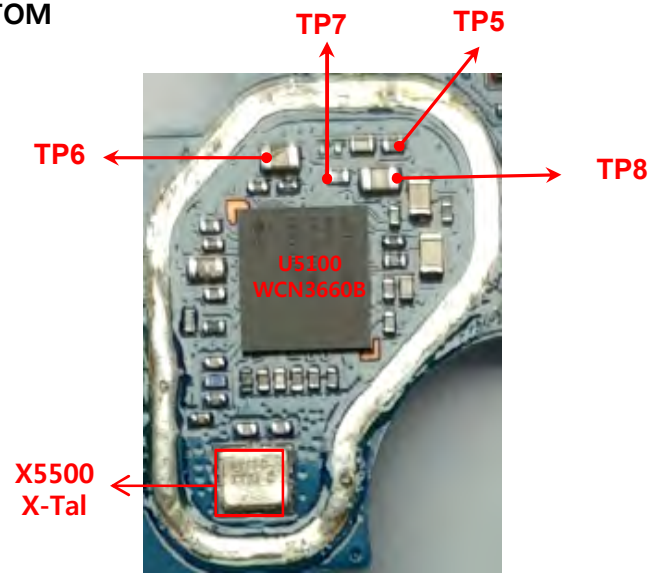

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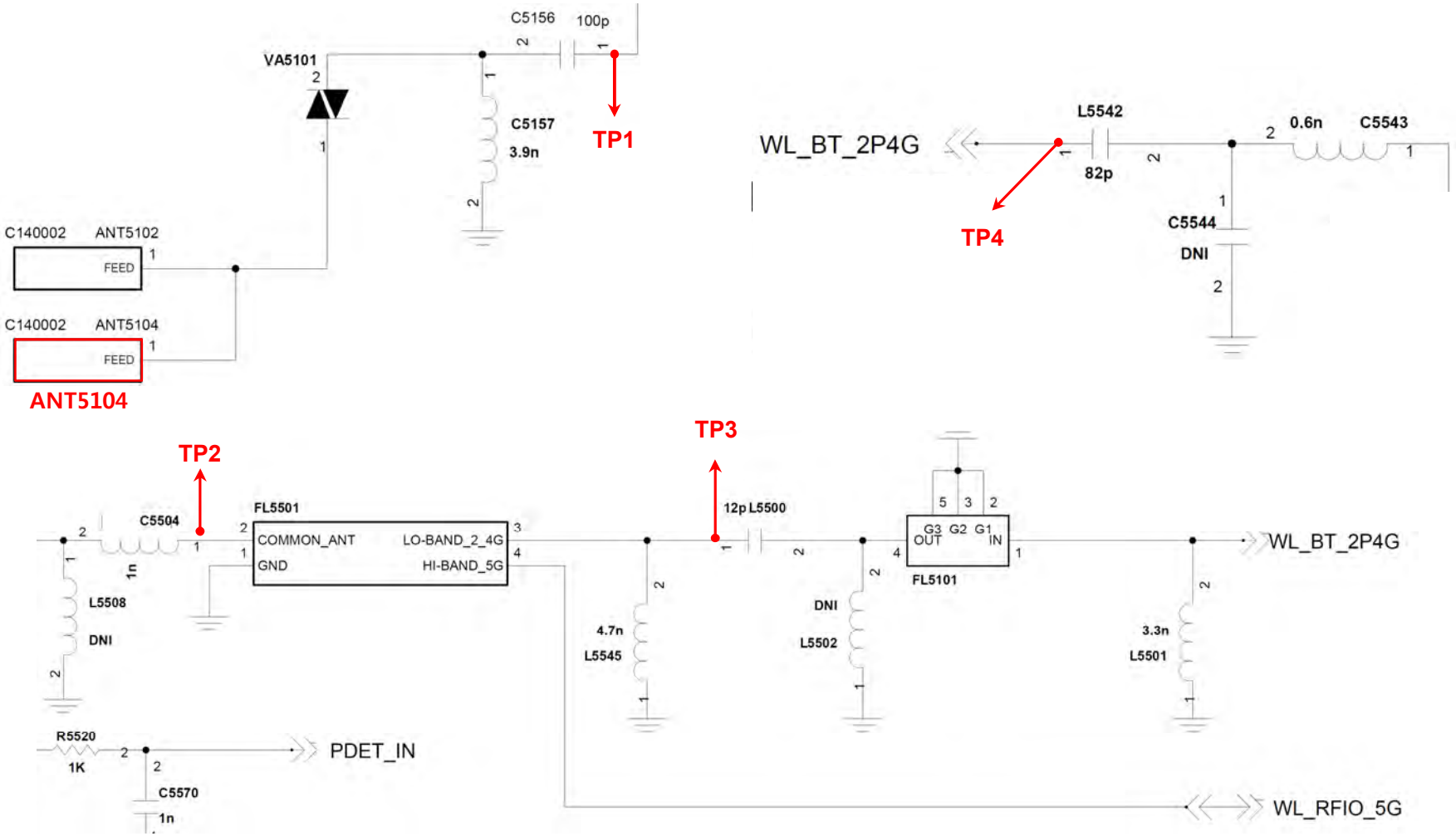
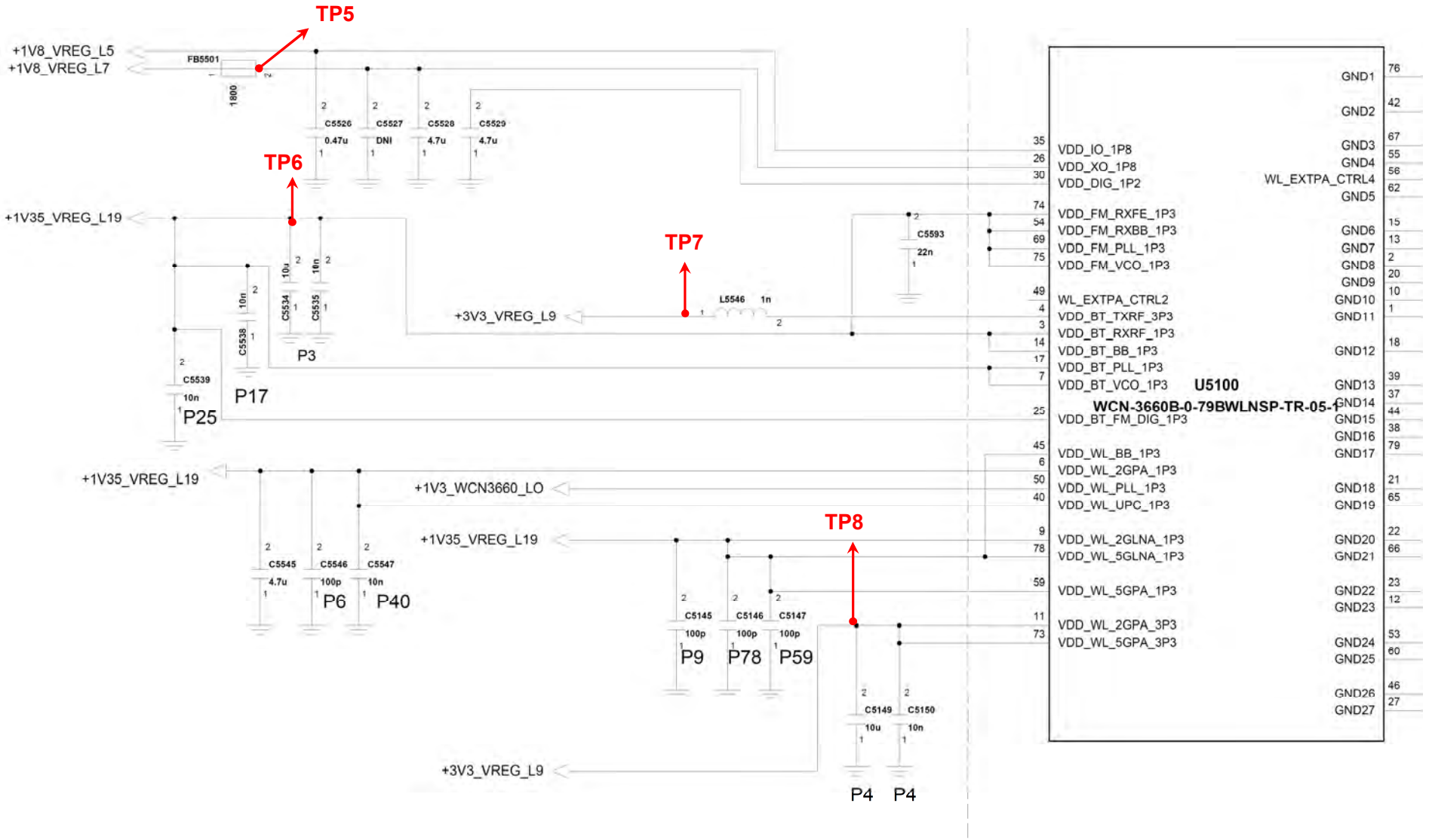
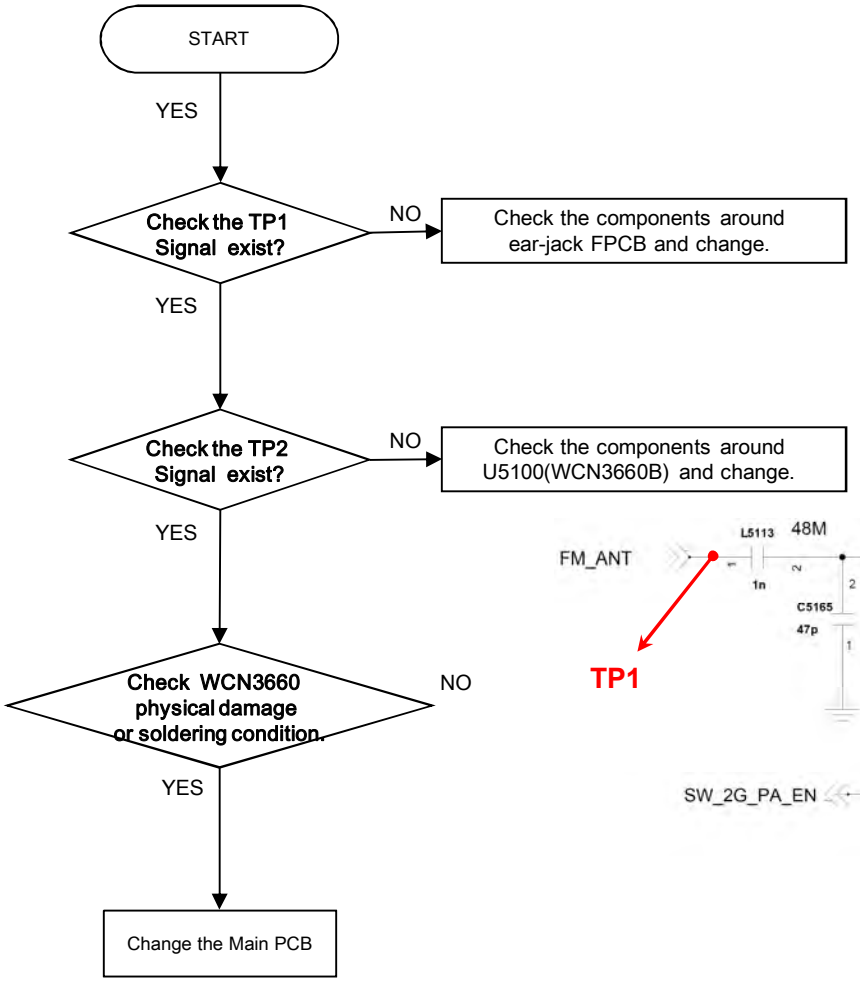
Circuit Diagram



Circuit Diagram



Checking Flow



Image

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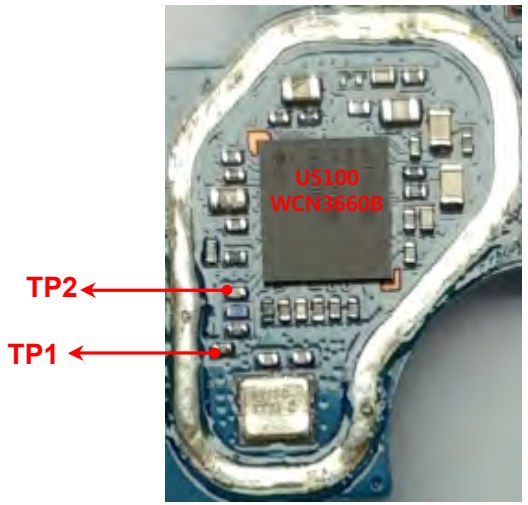
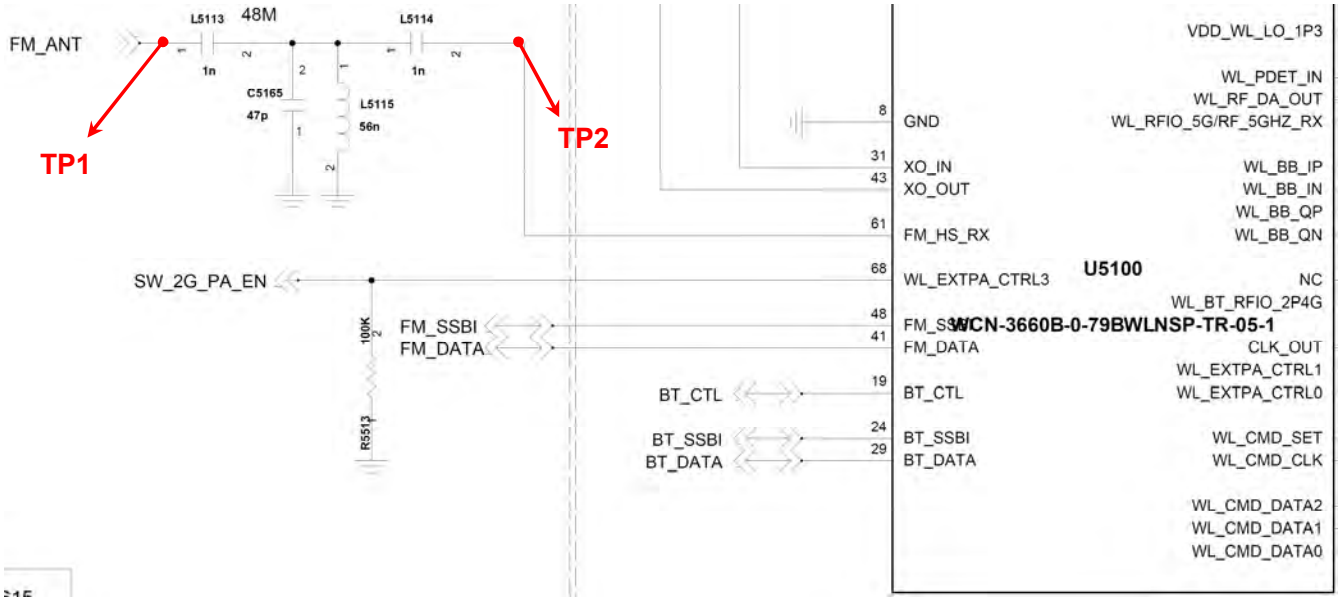
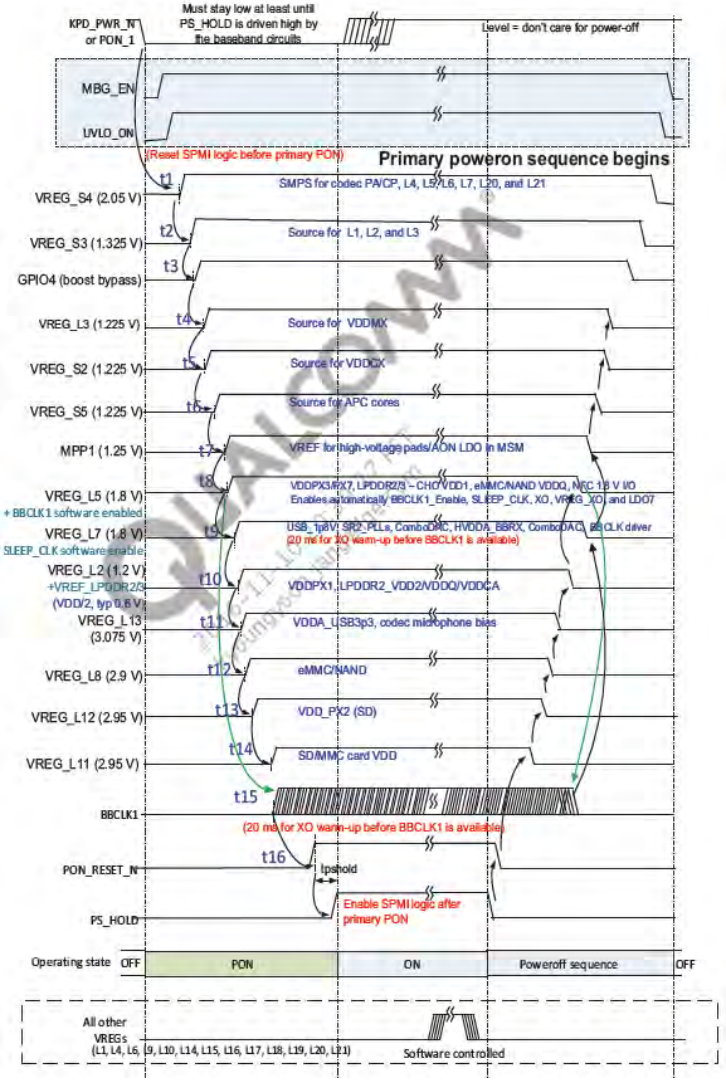




3.9.1 Check PM8940's SMPS & LDO voltage level.



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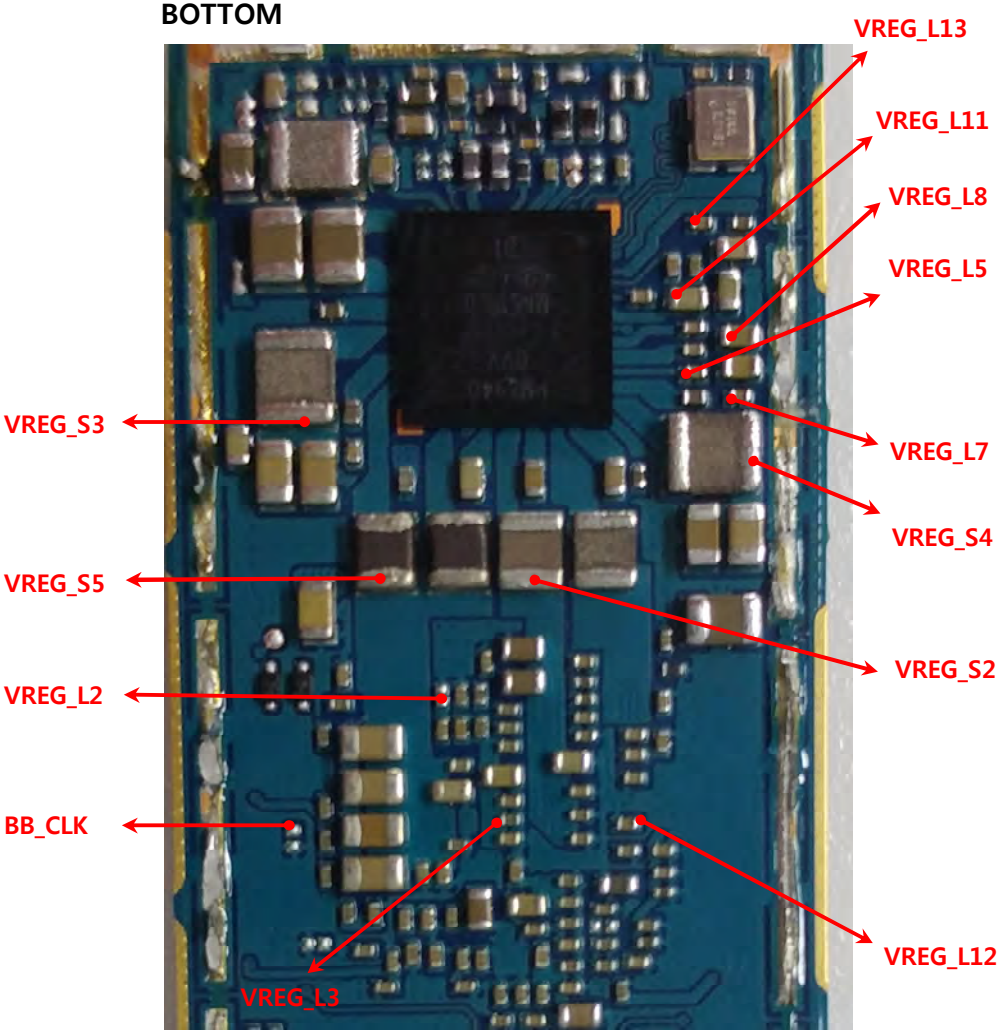
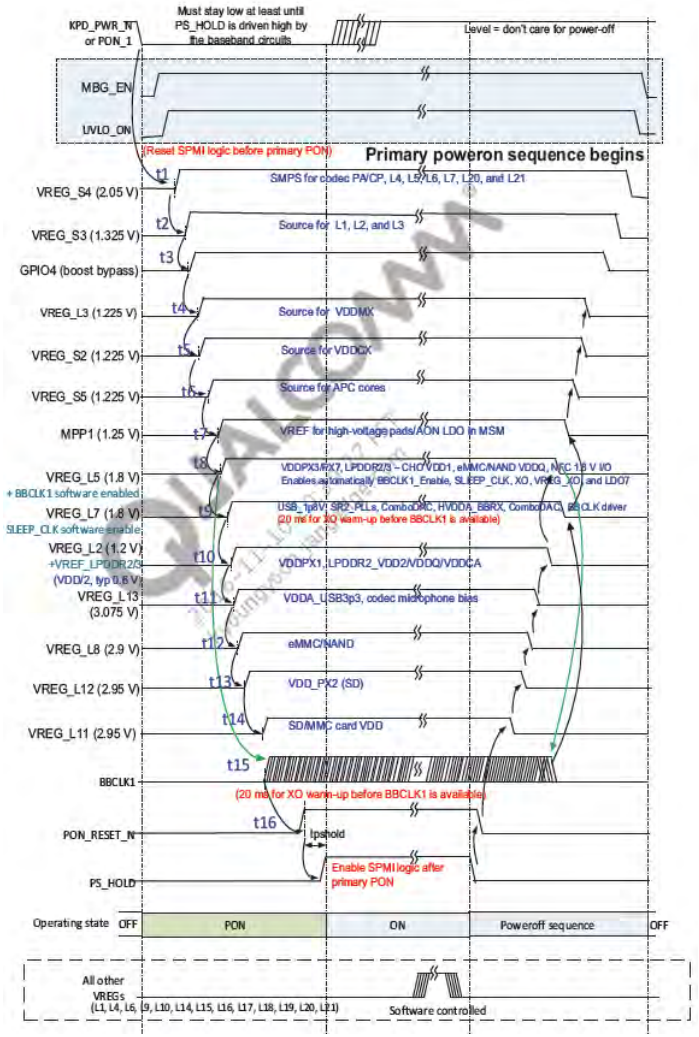


3.9.2 Check PM8940's SMPS & LDO voltage level.



Image

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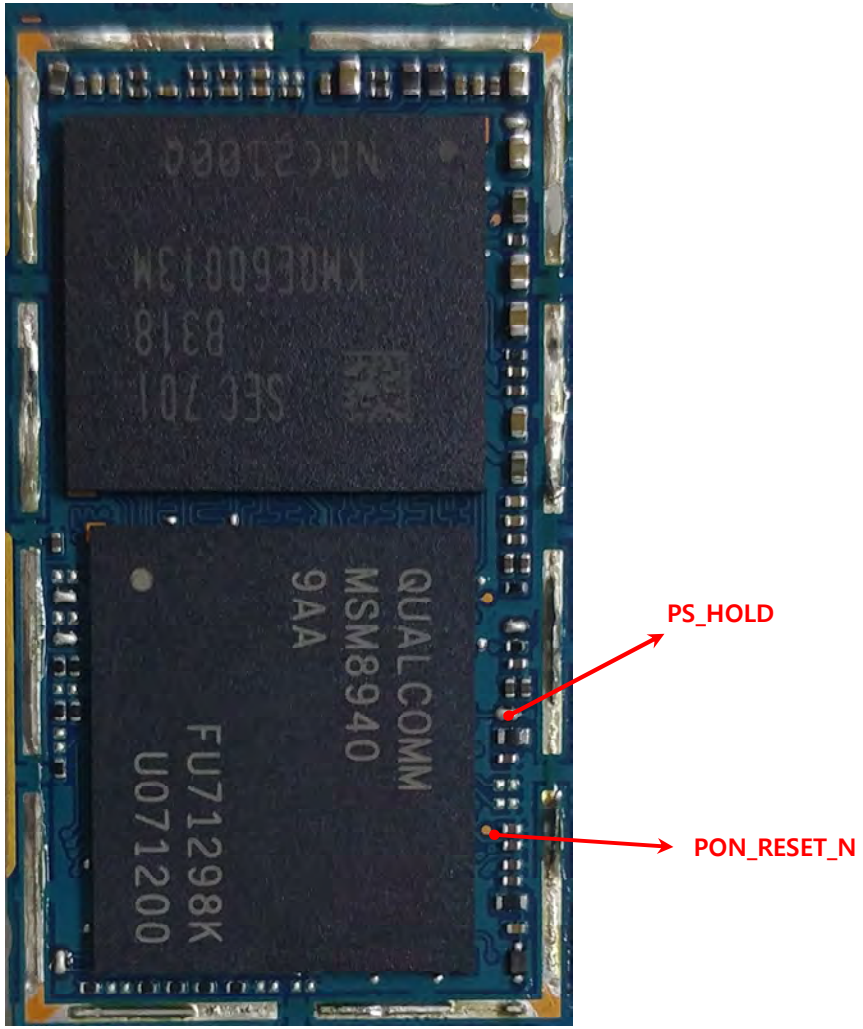
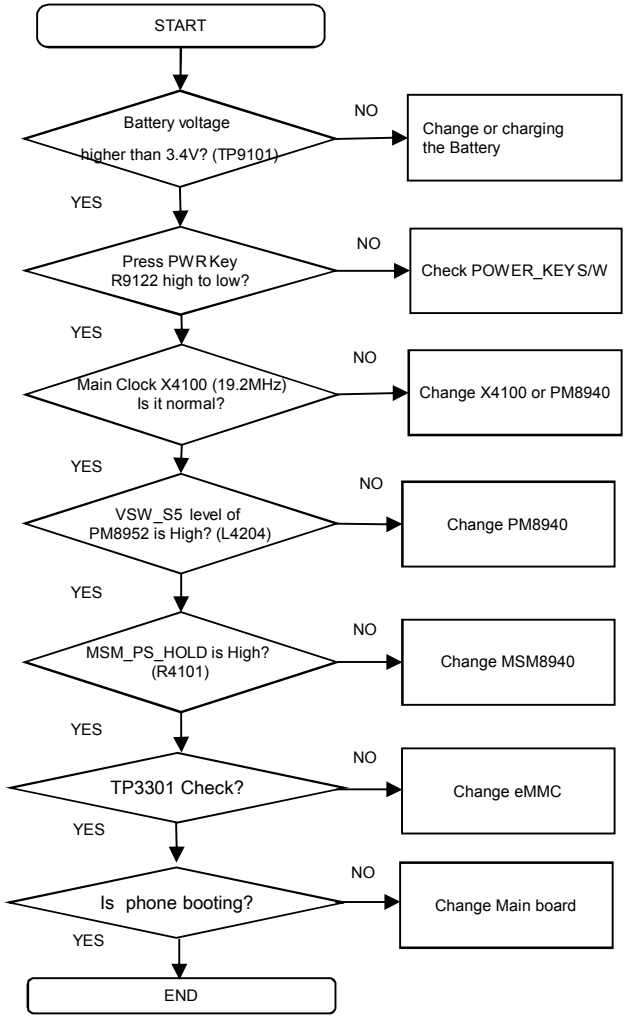


3.9.3 Check Power signal (Battery connector, Power Key, PMIC Regulator)

Checking Flow



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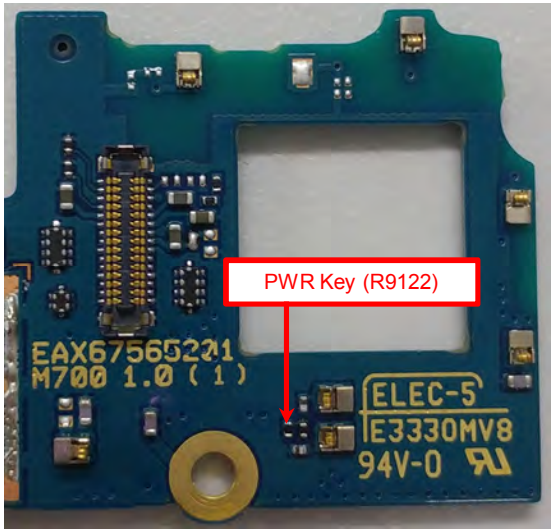
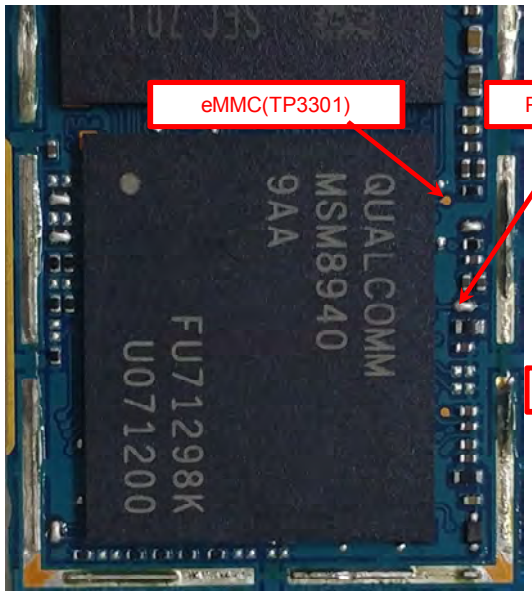
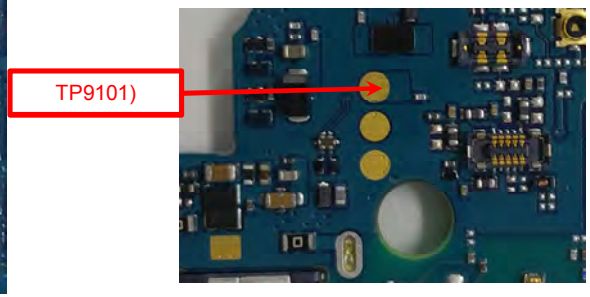


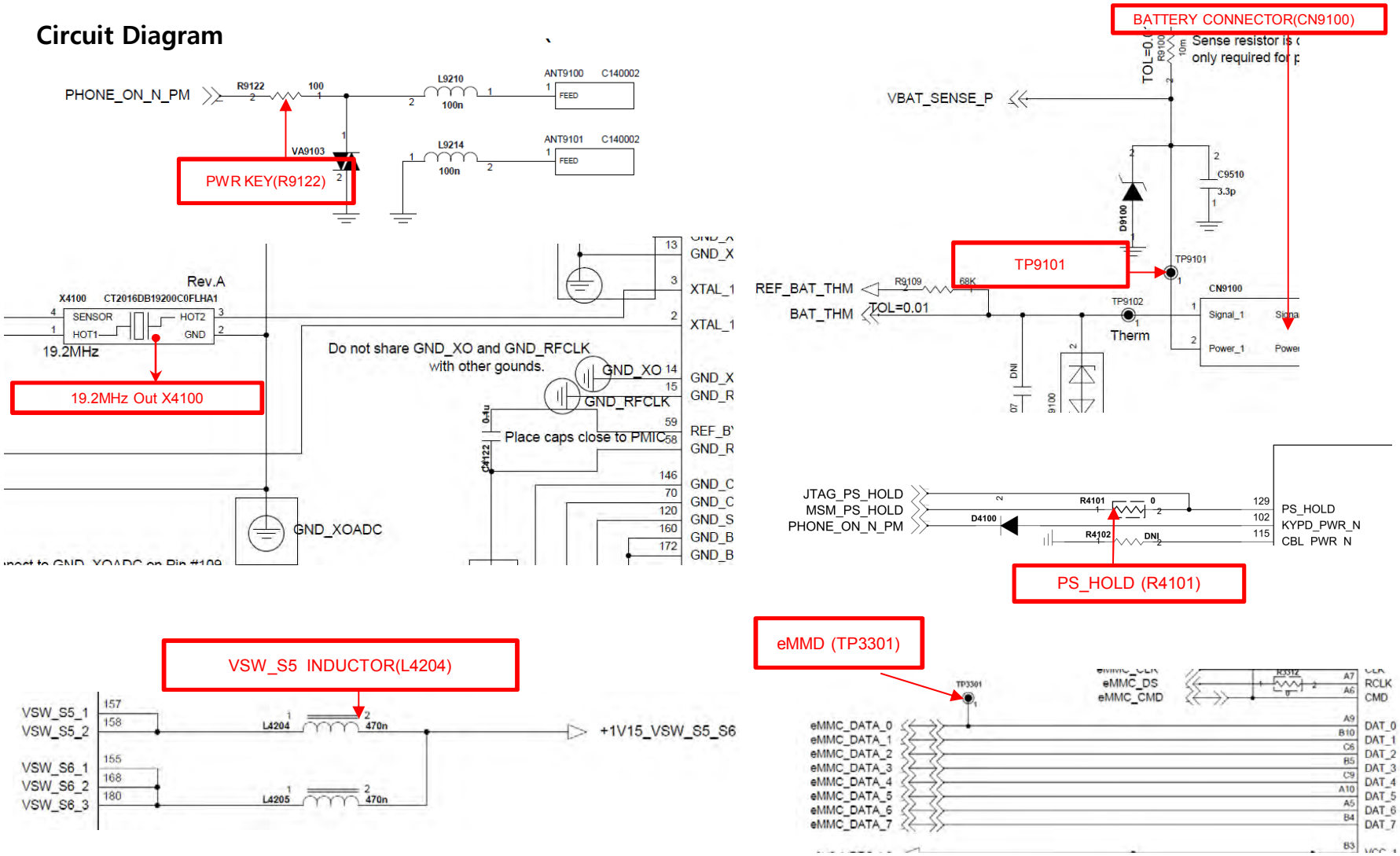




LGE Internal Use Only

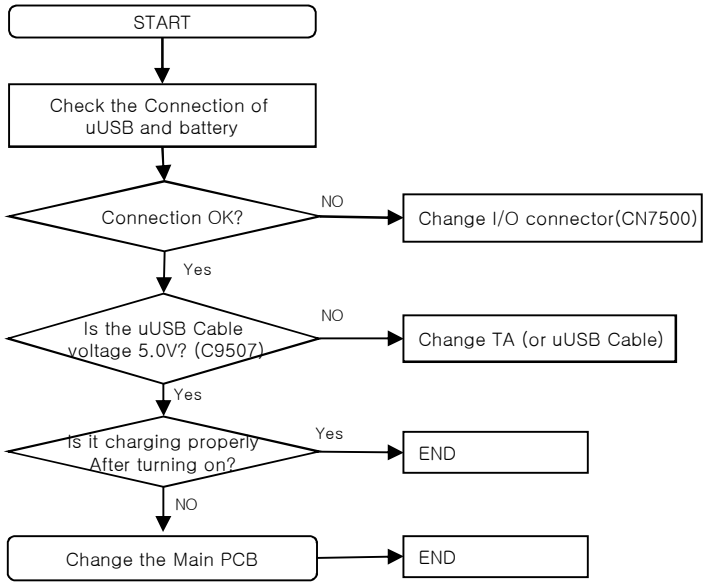
3.9.3 Check Power signal (Battery connector, Power Key, PMIC Regulator)

Circuit Diagram



3.9.4 Check the Voltage of Charger, Cable and Connector.

Checking Flow



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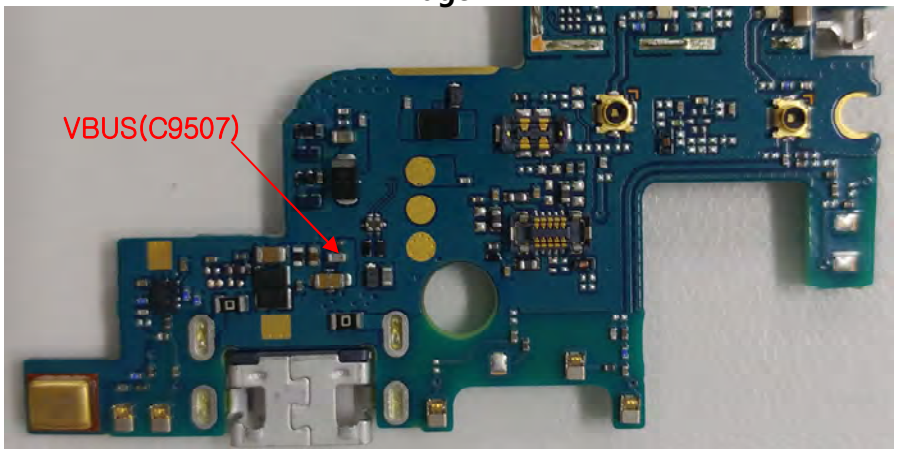
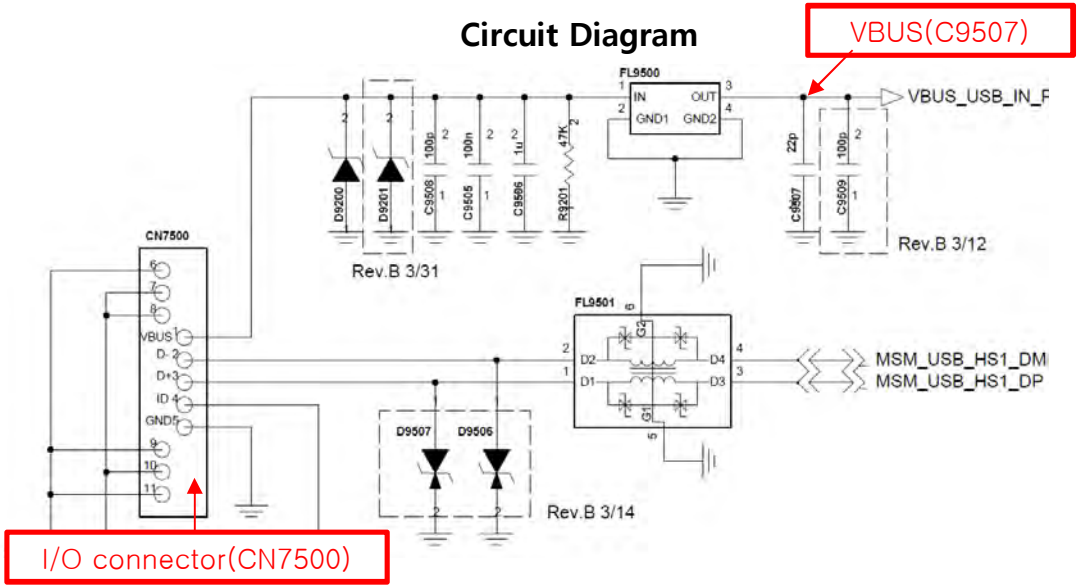
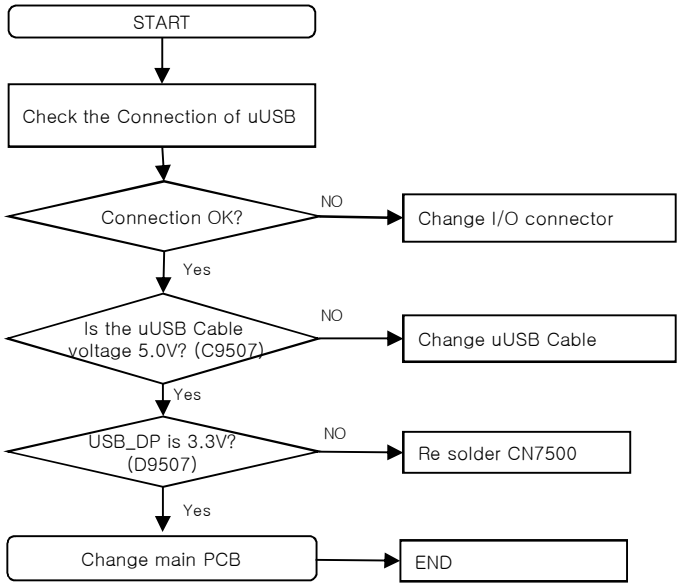


Circuit Diagram



Check the supply voltage and signal path.

Checking Flow



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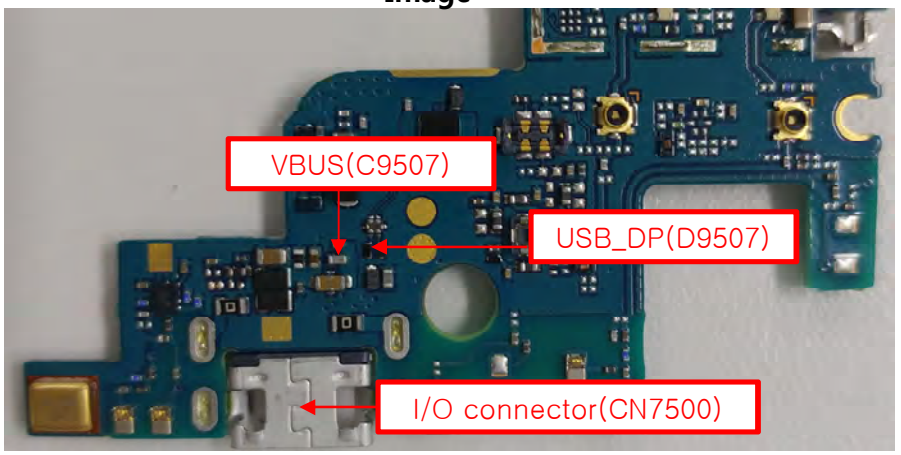
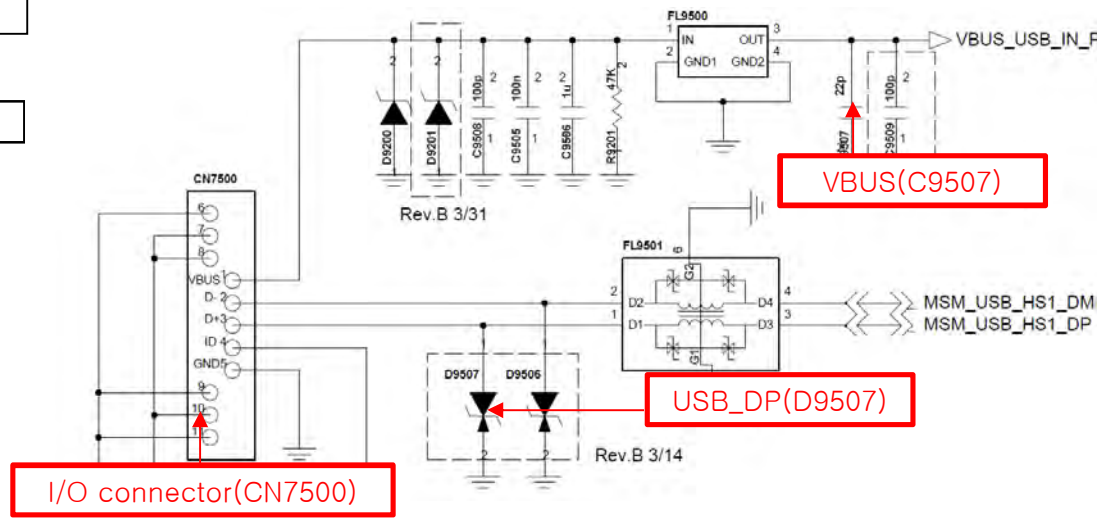


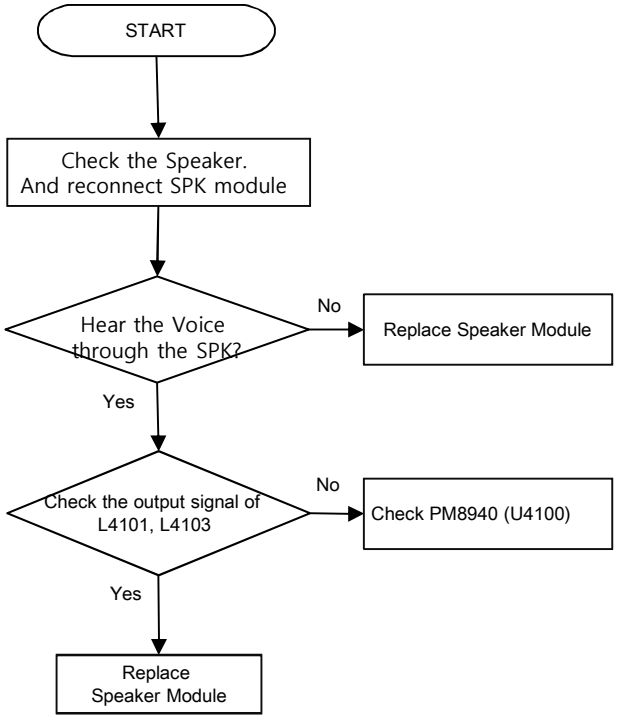
Circuit Diagram



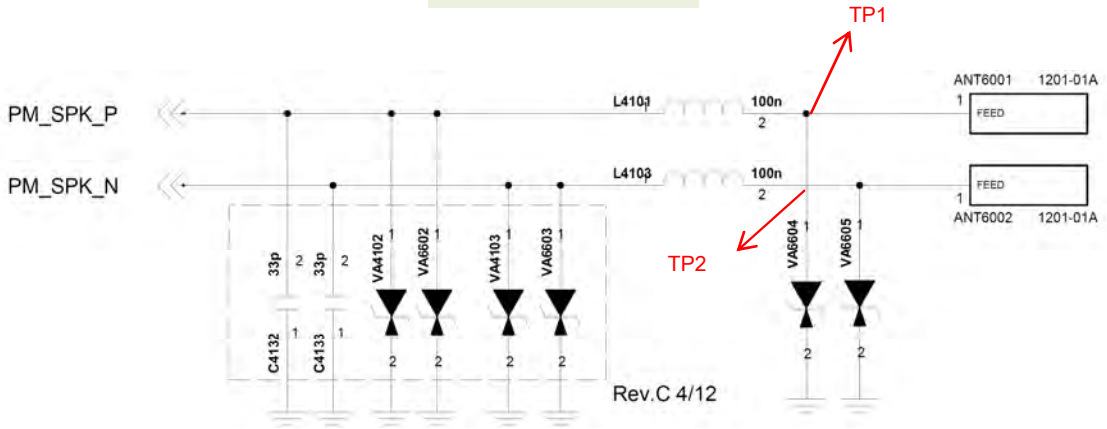
3.11.1 Speaker

The Speaker control signals are generated by PM8940(U4100) chipset and the speaker are to be checked out.

Checking Flow



Circuit Diagram



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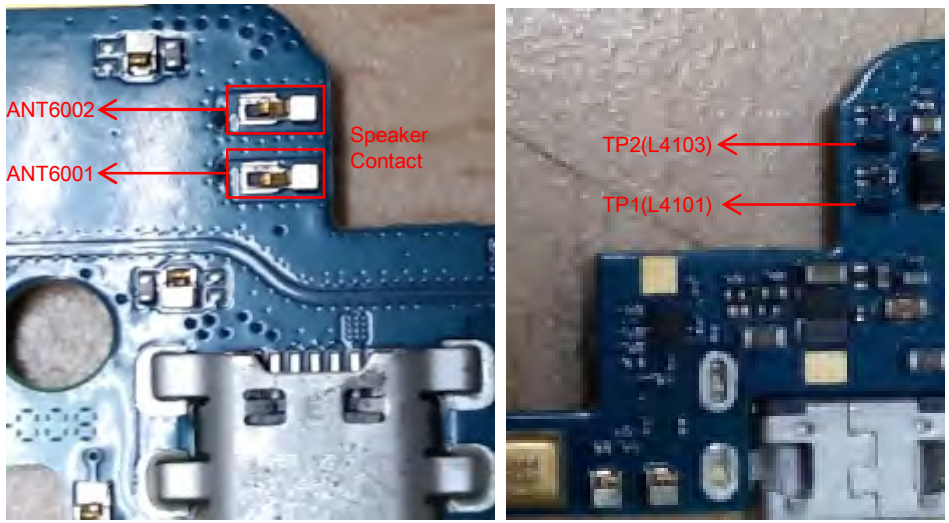
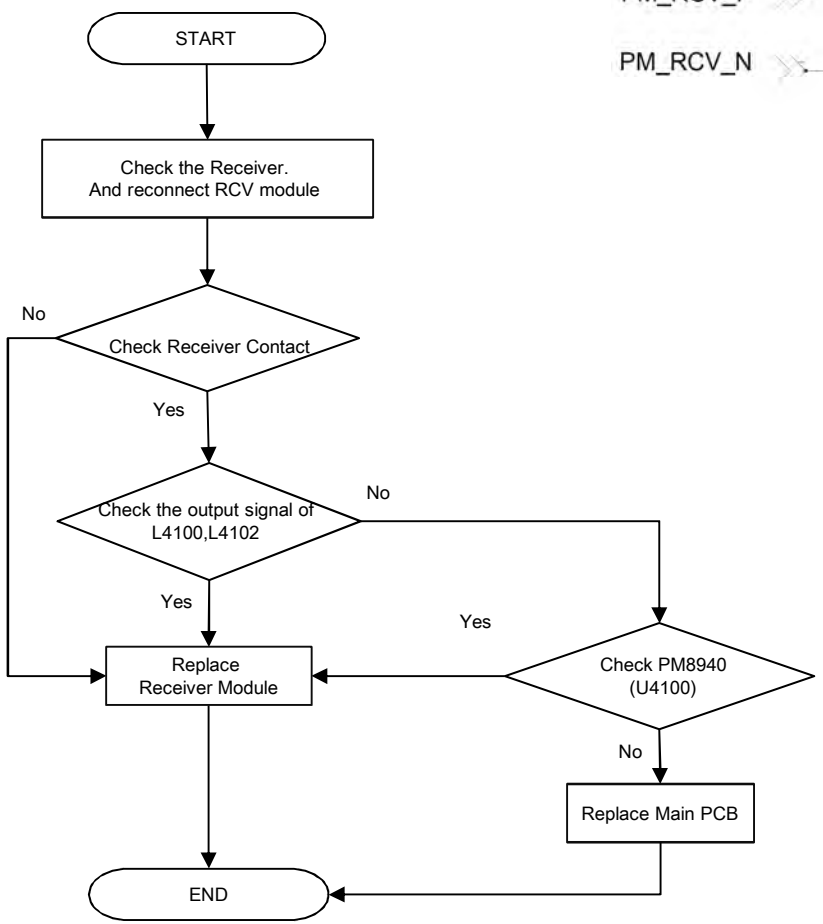


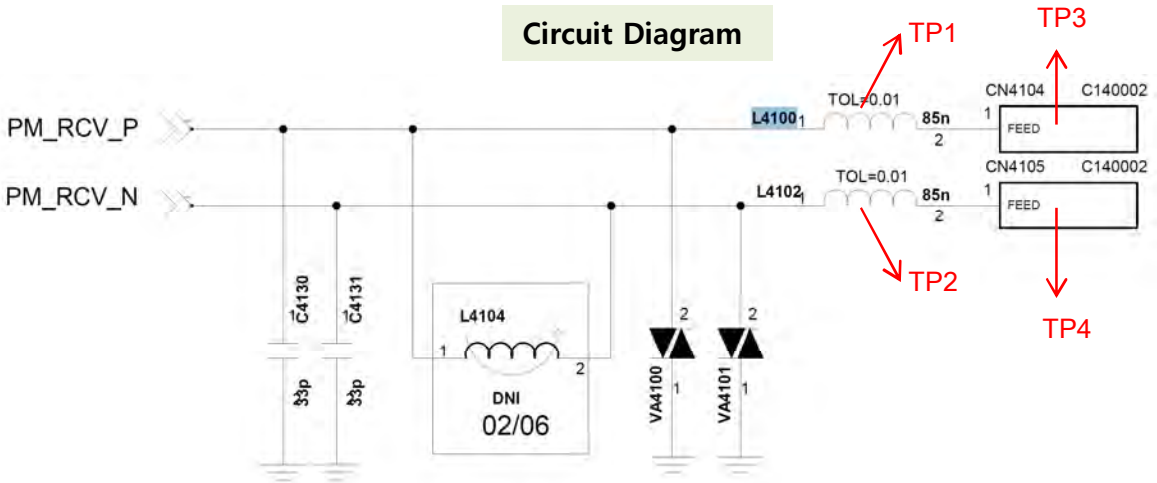
3.11.2 Receiver

The receiver control signals are generated by PM8940(U4100), the chipset and the receiver are to be checked out.

Checking Flow



Circuit Diagram



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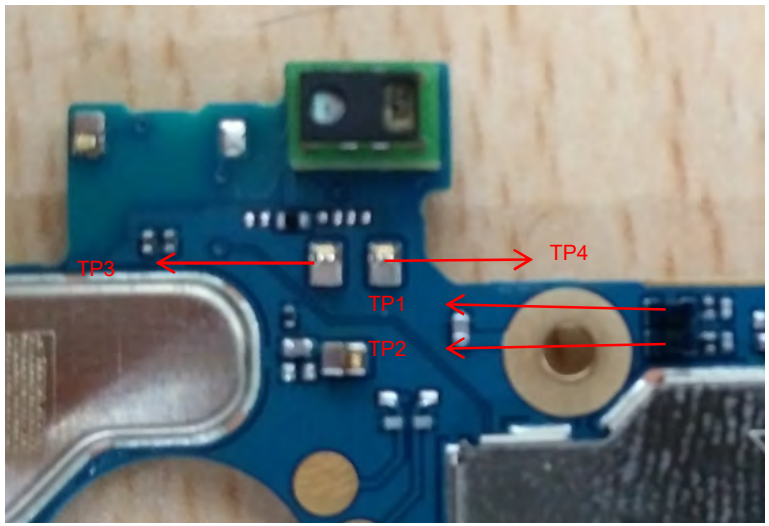
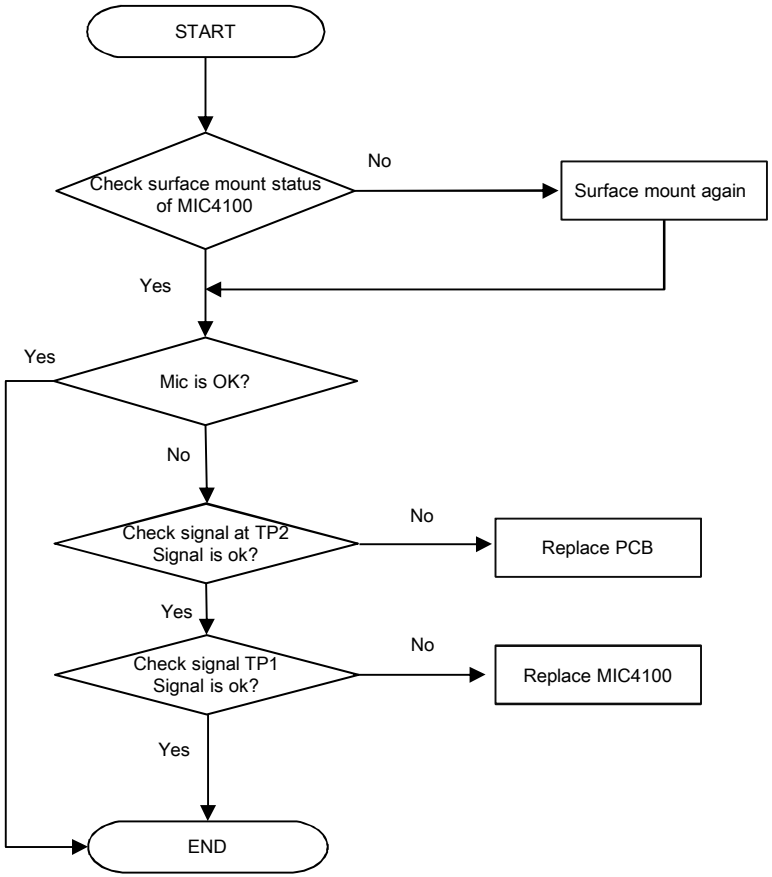


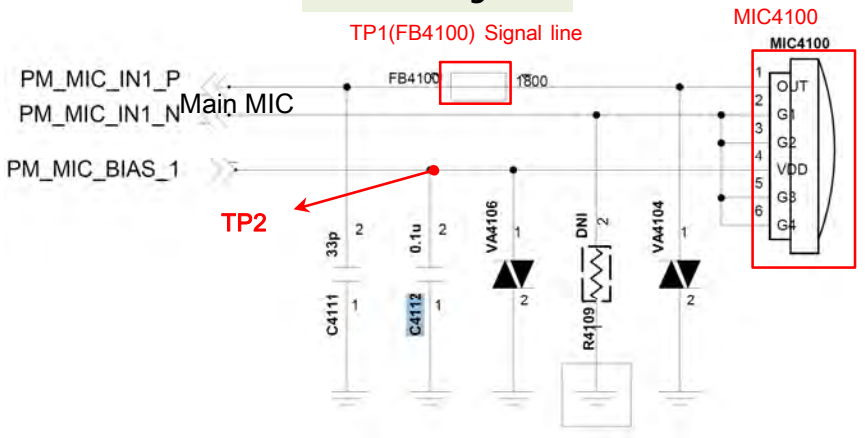
3.11.3 Main MIC

It's operating voice call(except speakerphone), voice recording, camcorder recording.

Checking Flow



Circuit Diagram



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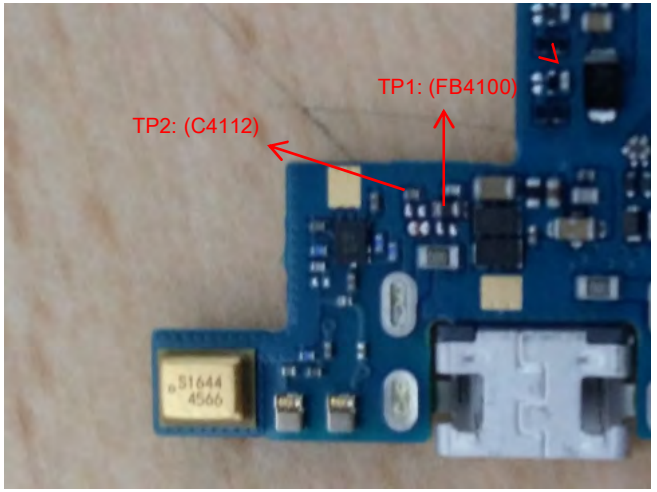
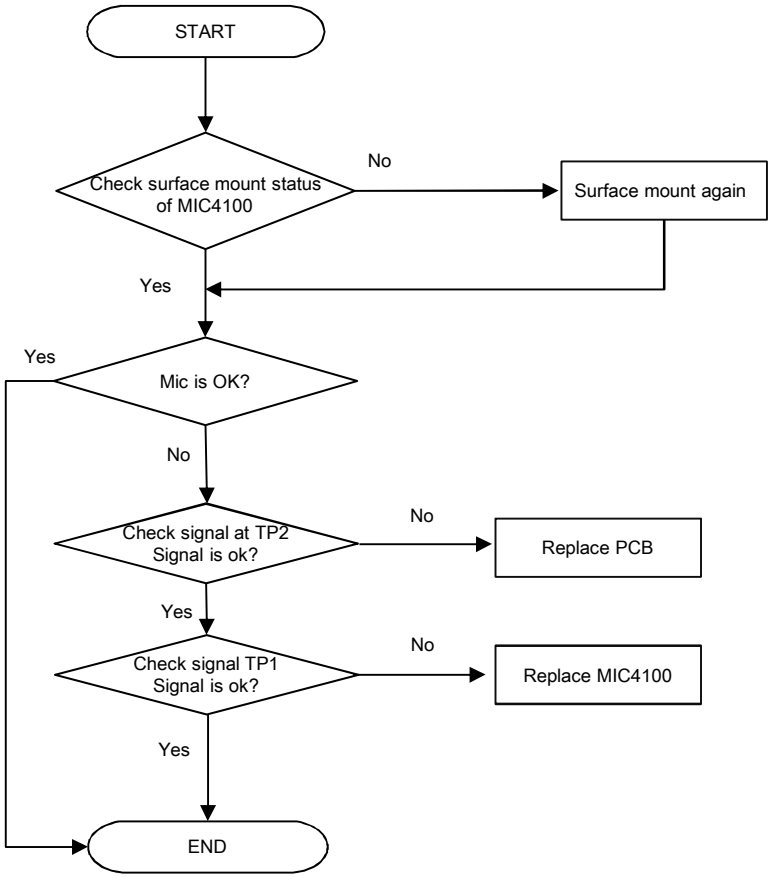


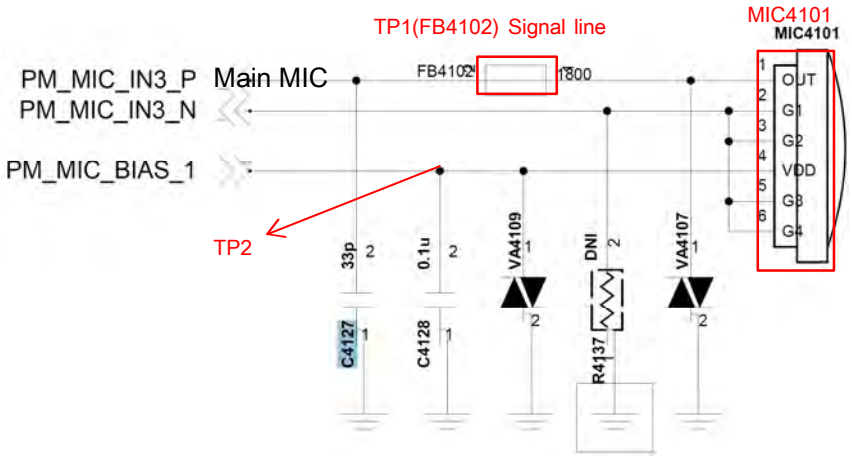
3.11.4 Sub MIC

It's operating speakerphone.

Checking Flow



Circuit Diagram



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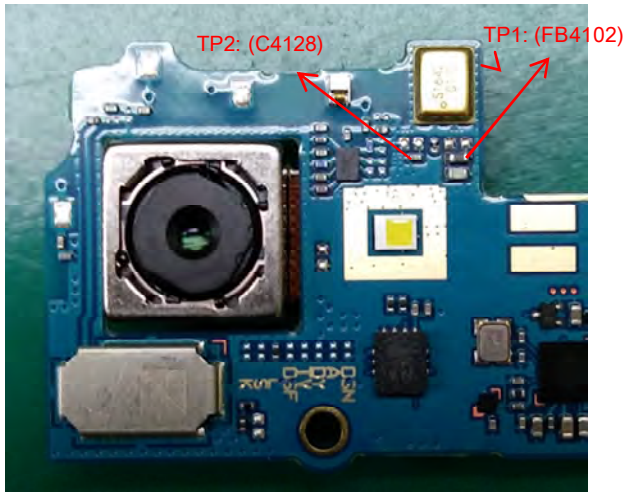
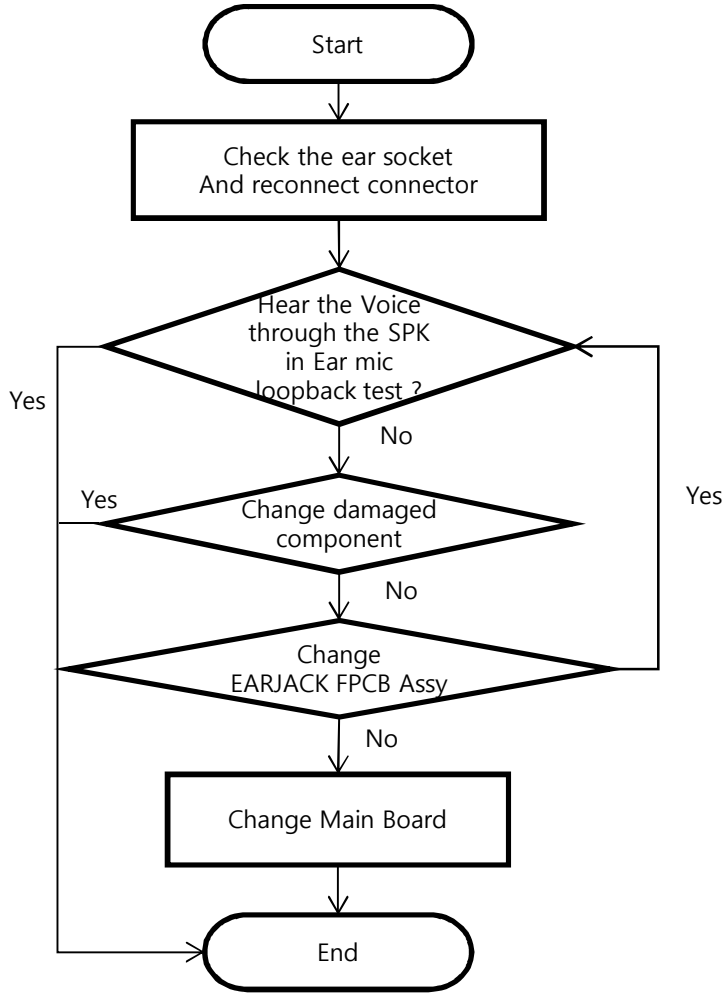


3.11.5 Ear jack(MIC)

It's operating headset recording, headset call.

Checking Flow



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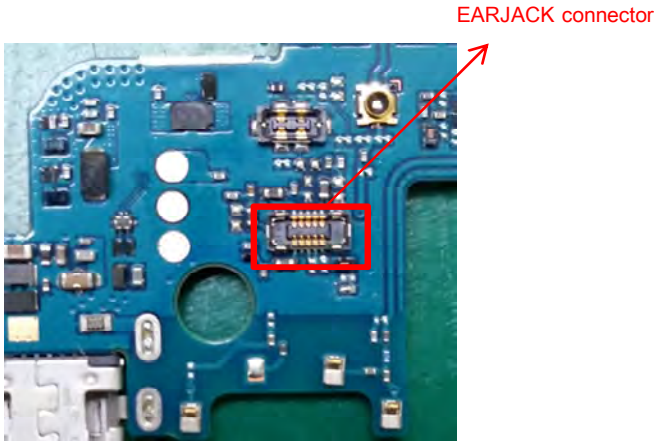

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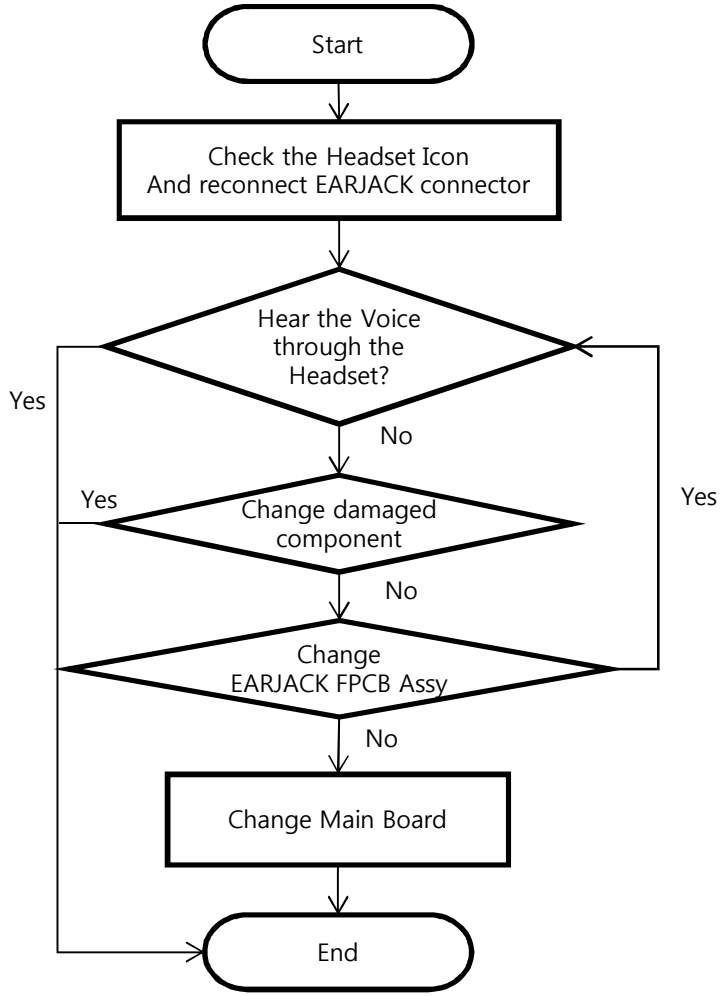
3.11.5 Ear jack(Headphone)

Disable detecting headset insert or No sound from Earphone, Check the Ear Mic.

Checking Flow



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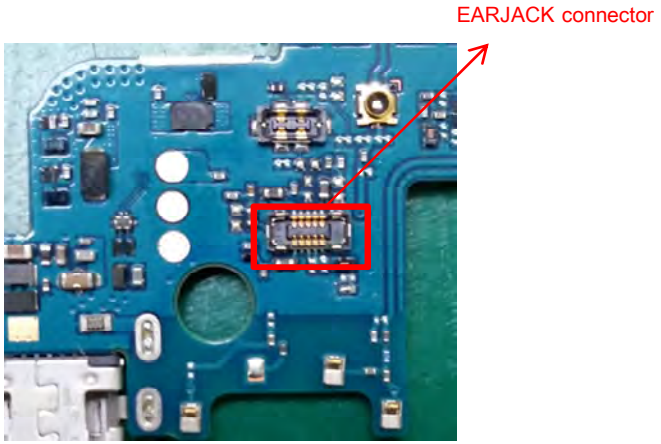
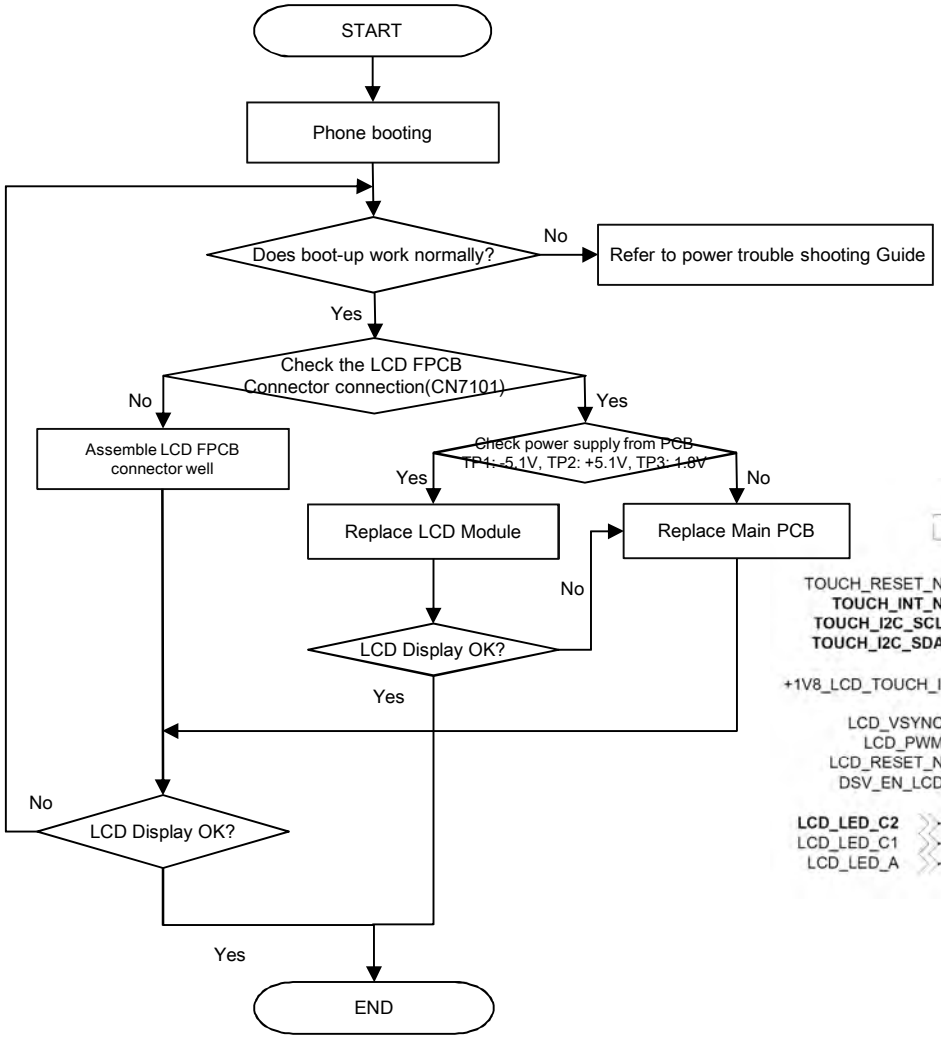


LGE Internal Use Only

3.12.1 Touch Parts on the main board

Touch trouble shooting is able to replace display one. If those functions does not work properly, refer to below contents.

Checking Flow



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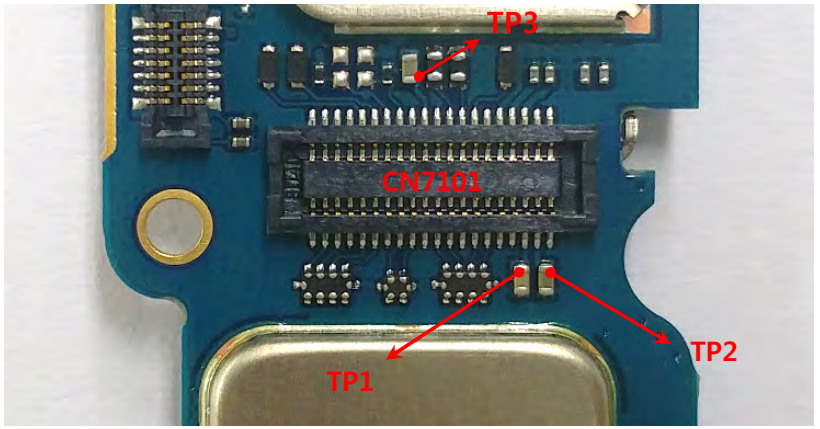
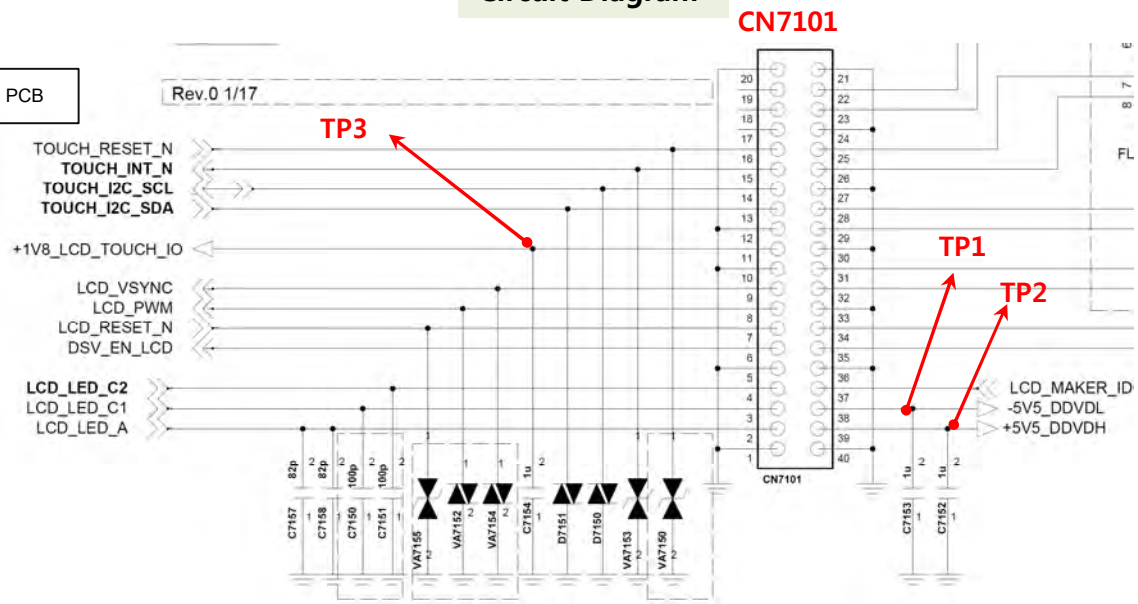


Circuit Diagram

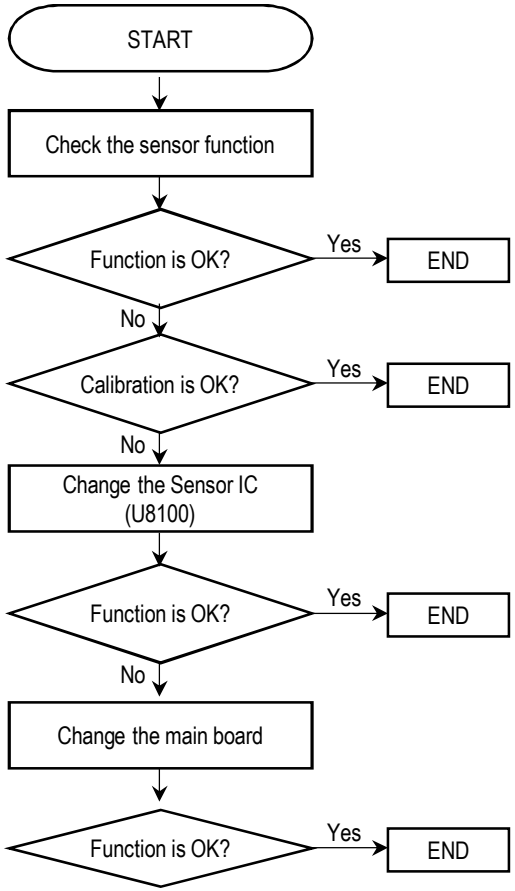


LGE Internal Use Only

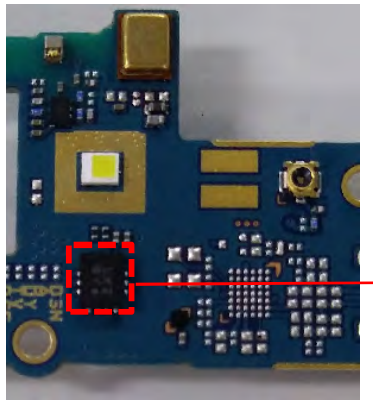
3.13.1 Checking Sensor (Accel. & Gyro)

The Accel. & Gyro sensor is calibrated by using SW algorithm.

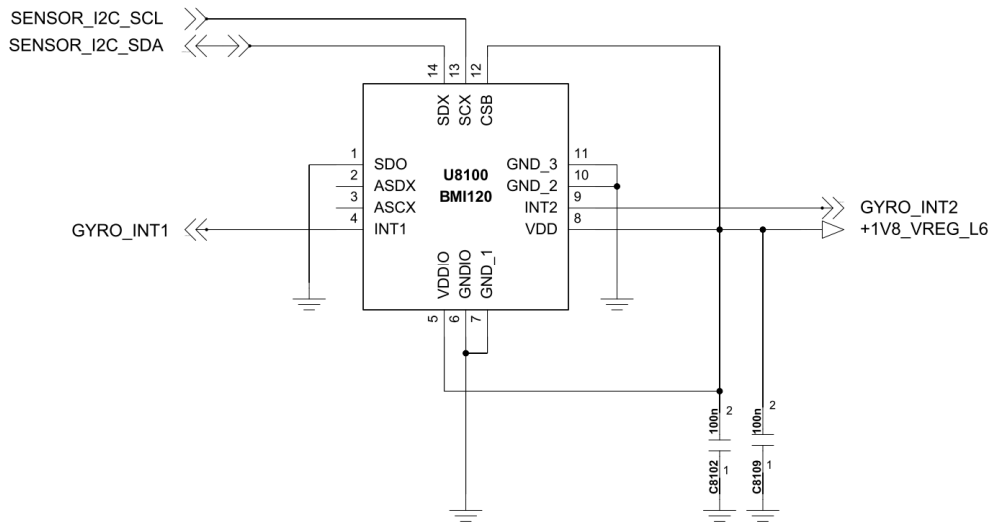
Checking Flow



Image



Circuit Diagram

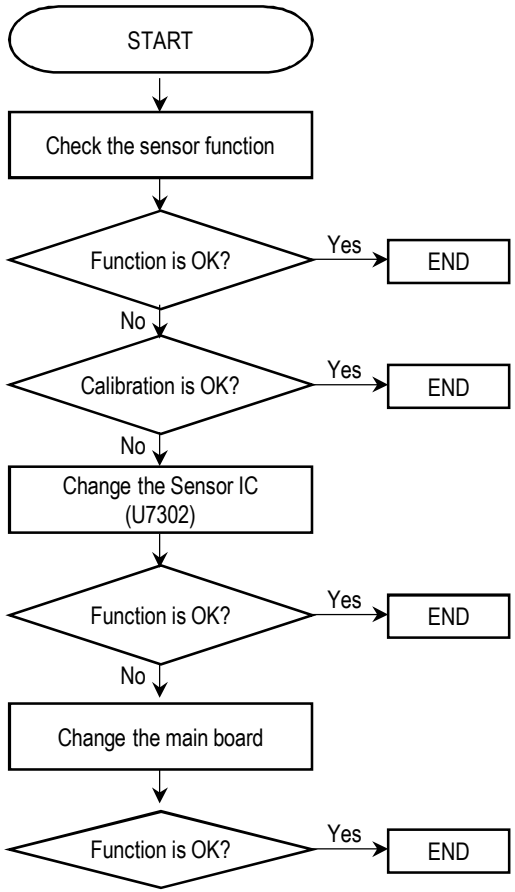


LGE Internal Use Only

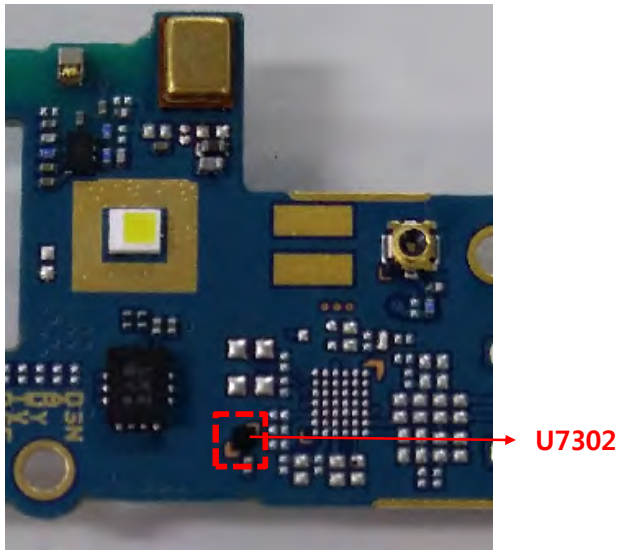
3.13.2 Checking Sensor (Compass)

The compass sensor is calibrated by using SW algorithm.

Checking Flow

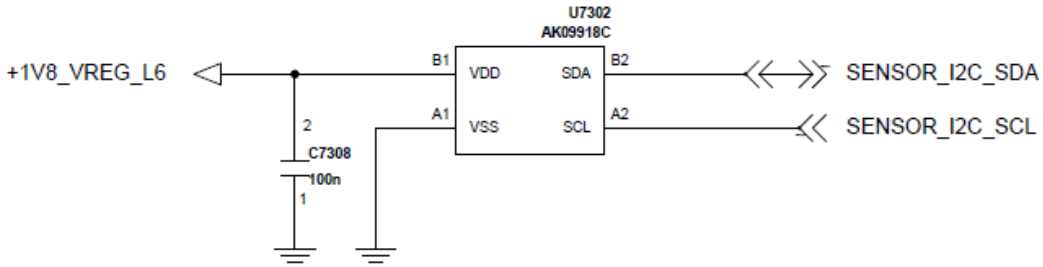


Image



Circuit Diagram

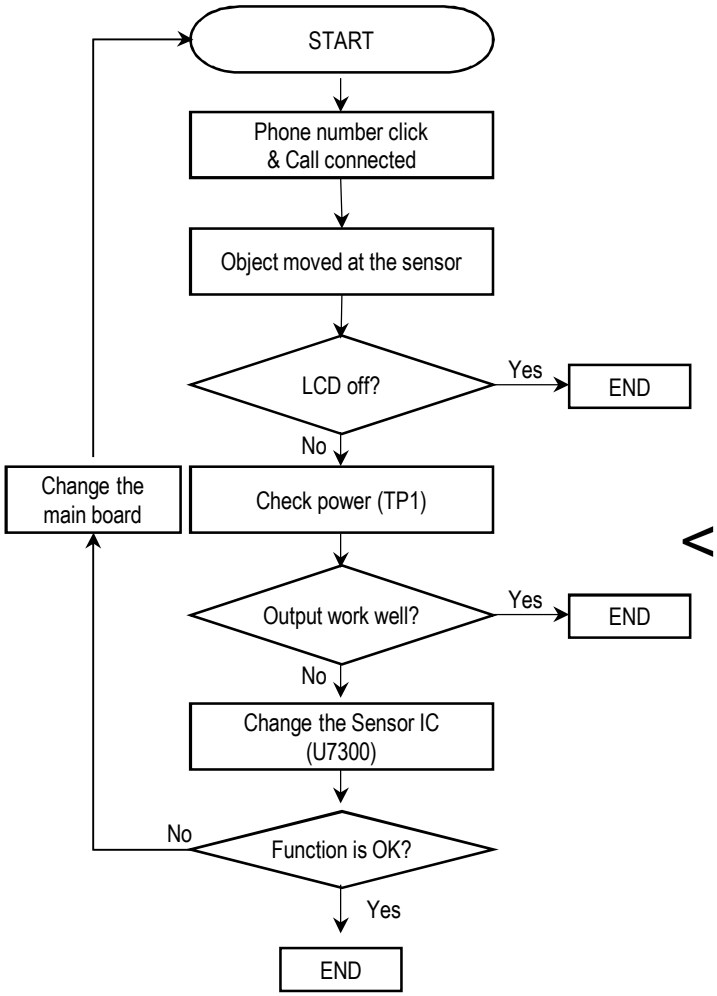
<Compass_AK09918C>



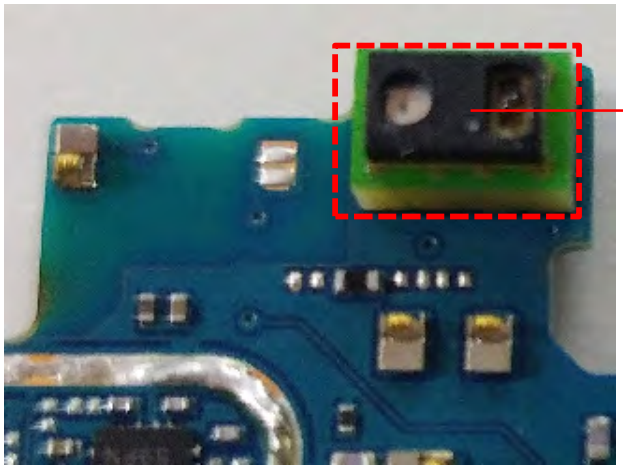
3.13.3 Checking Sensor (Proximity_Ambient)

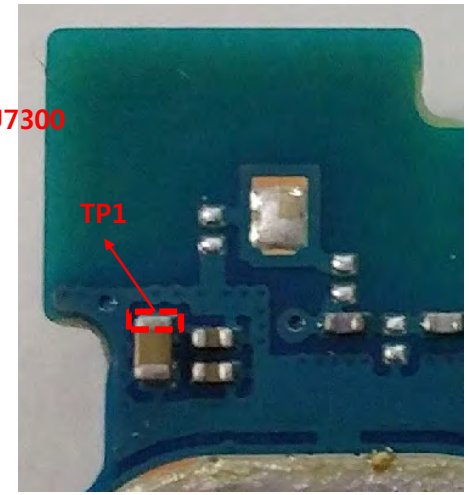
Proximity Sensor is worked as below:
Phone number click ➔ Call connected ➔ Object moved at the sensor ➔ Control the screen's on/off operation automatically

Checking Flow



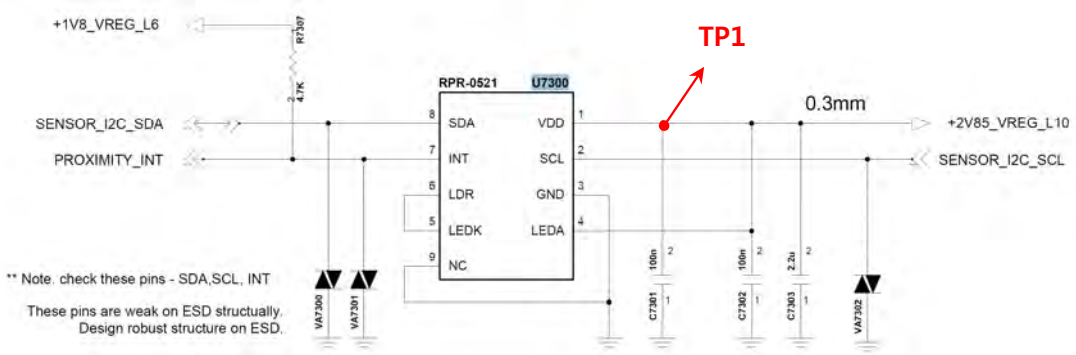
Image





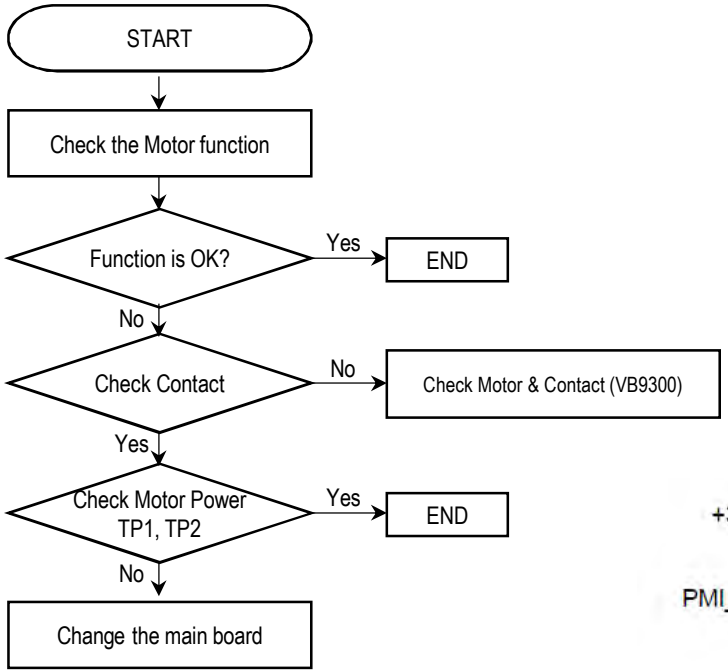
Circuit Diagram

<8_4_3_3_Proximity_Ambient_RPR-0521>

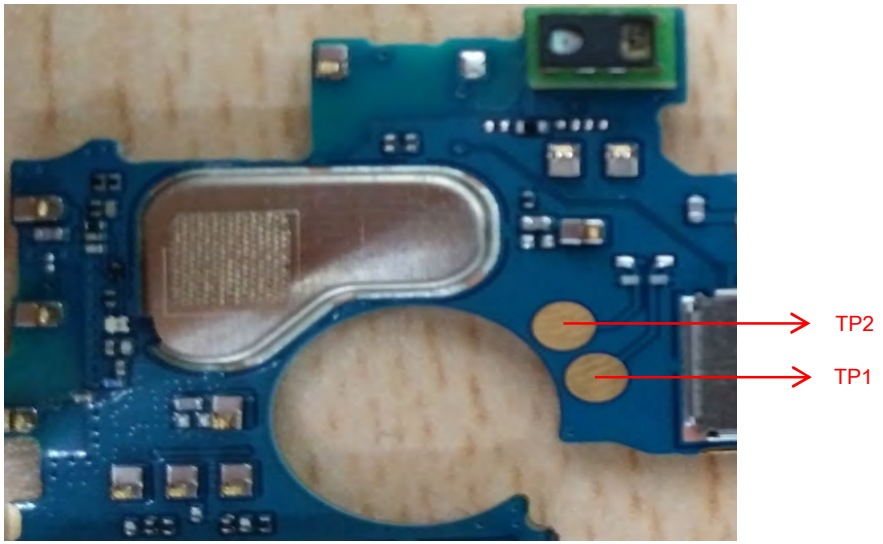


3.13.4 Checking Motor

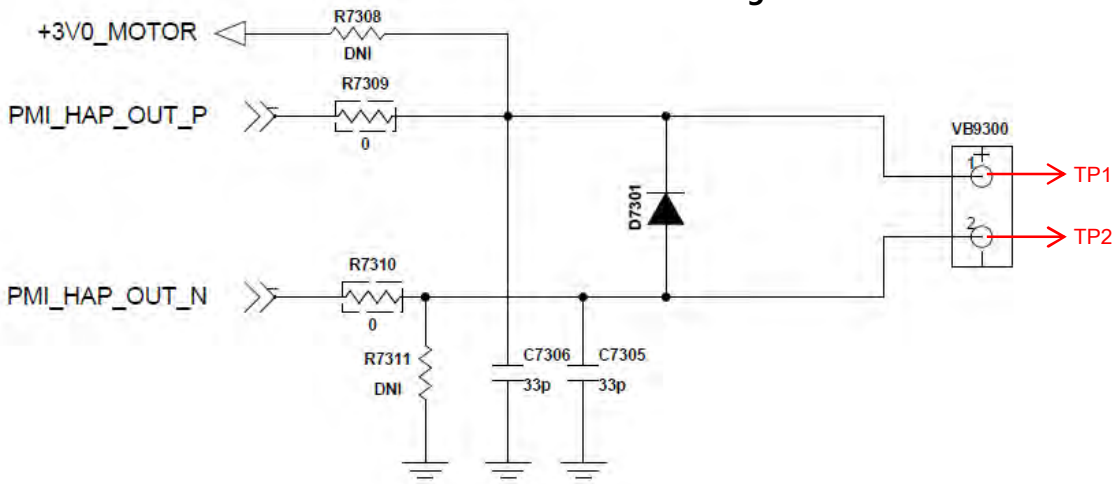
Checking Flow



Image

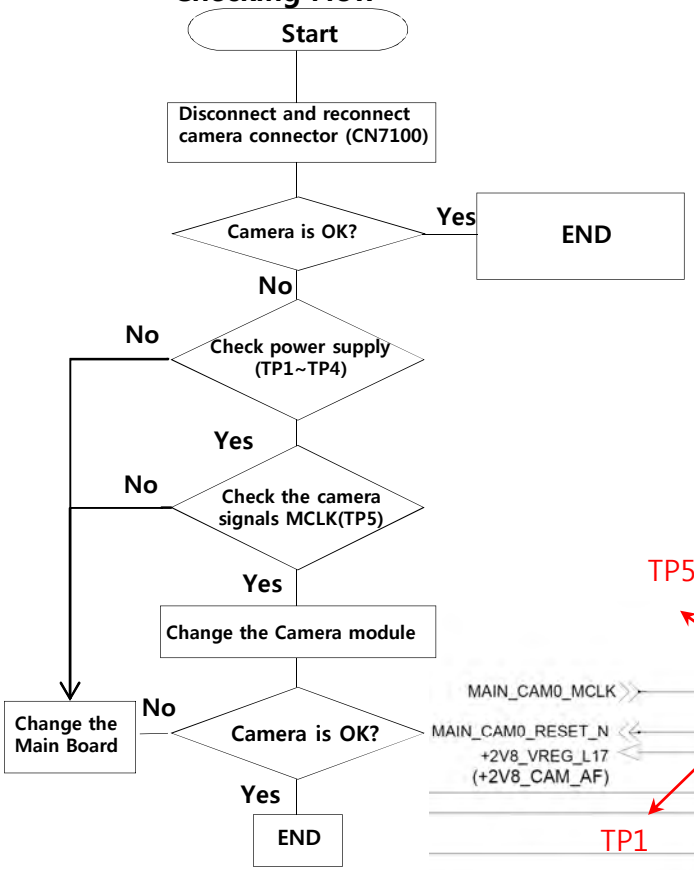


Circuit Diagram

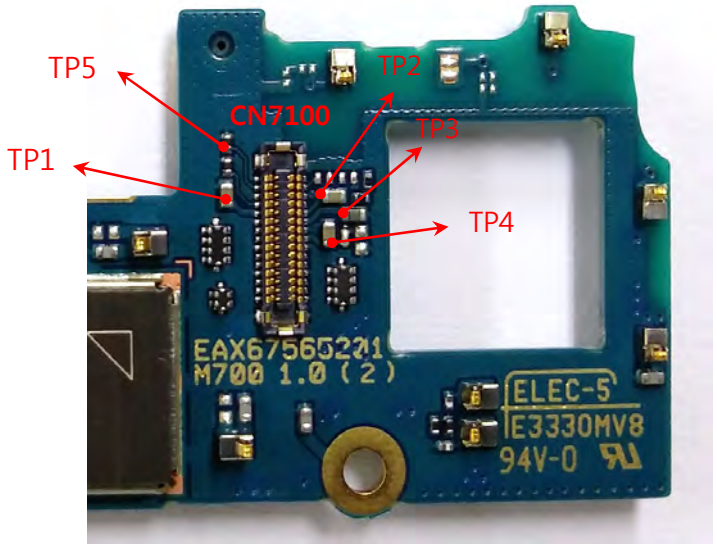


16M camera control signals are generated by MSM8940 (U2100 : Main Chipset). And powered by PMIC(U4100).

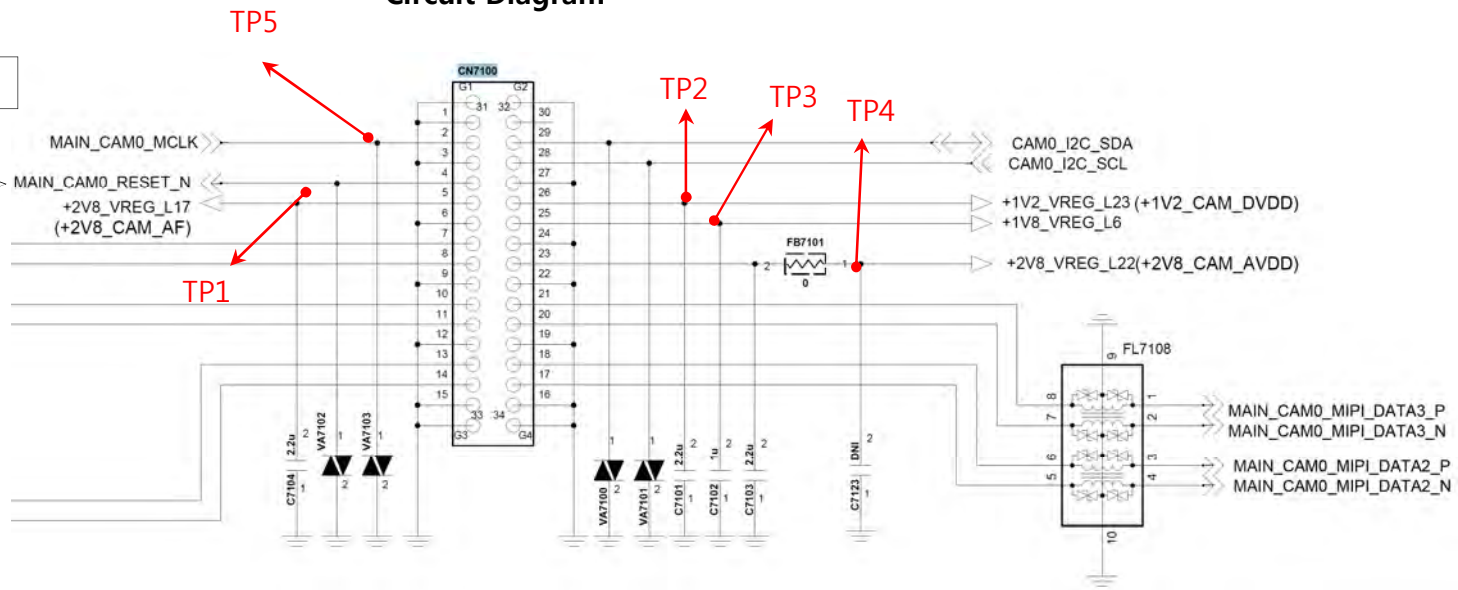
Checking Flow



Image

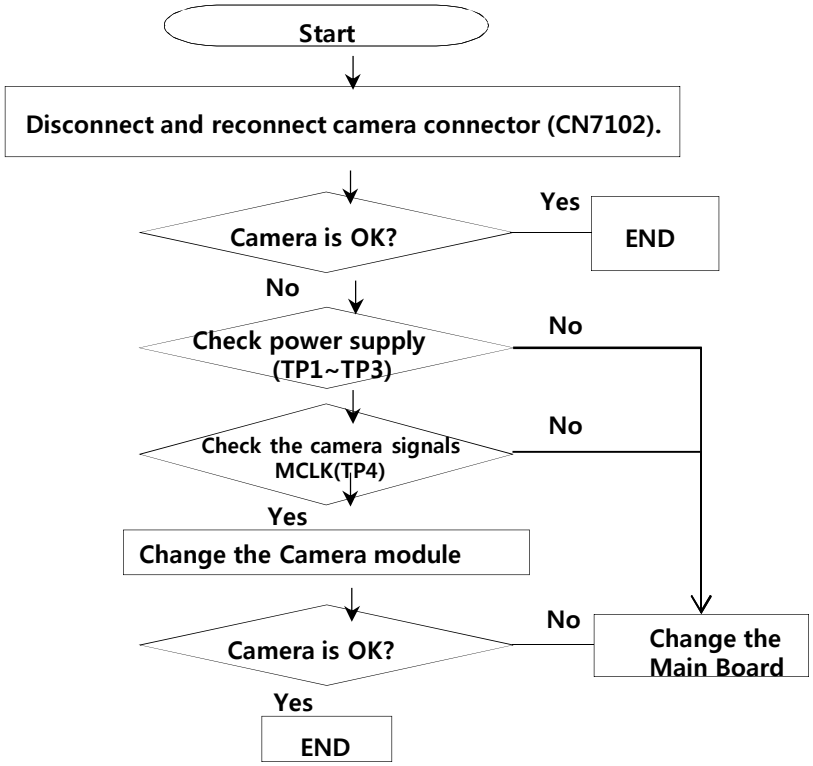


Circuit Diagram

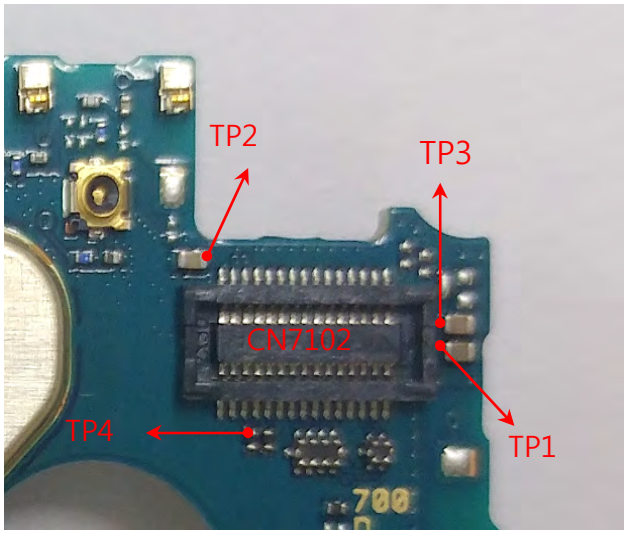


VT camera control signals are generated by MSM8940 (U2100 : Main Chipset). And powered by PMIC(U4100).

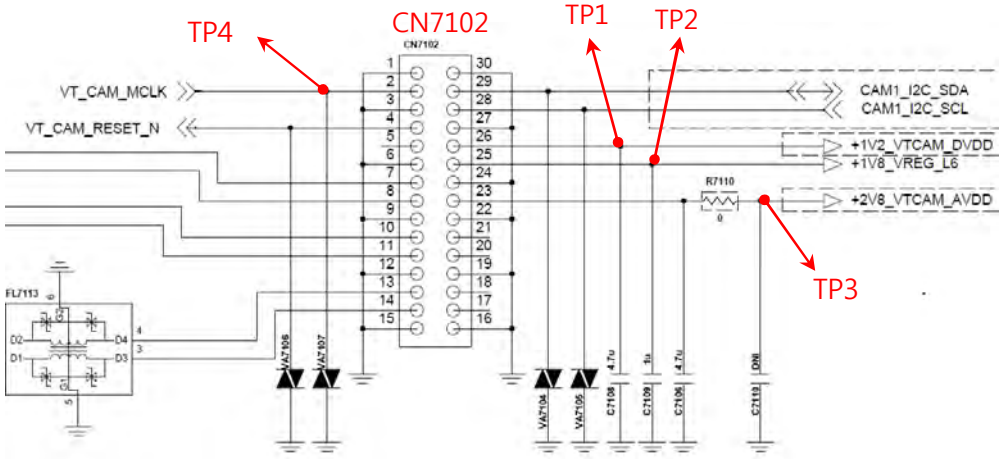
Checking Flow



Image

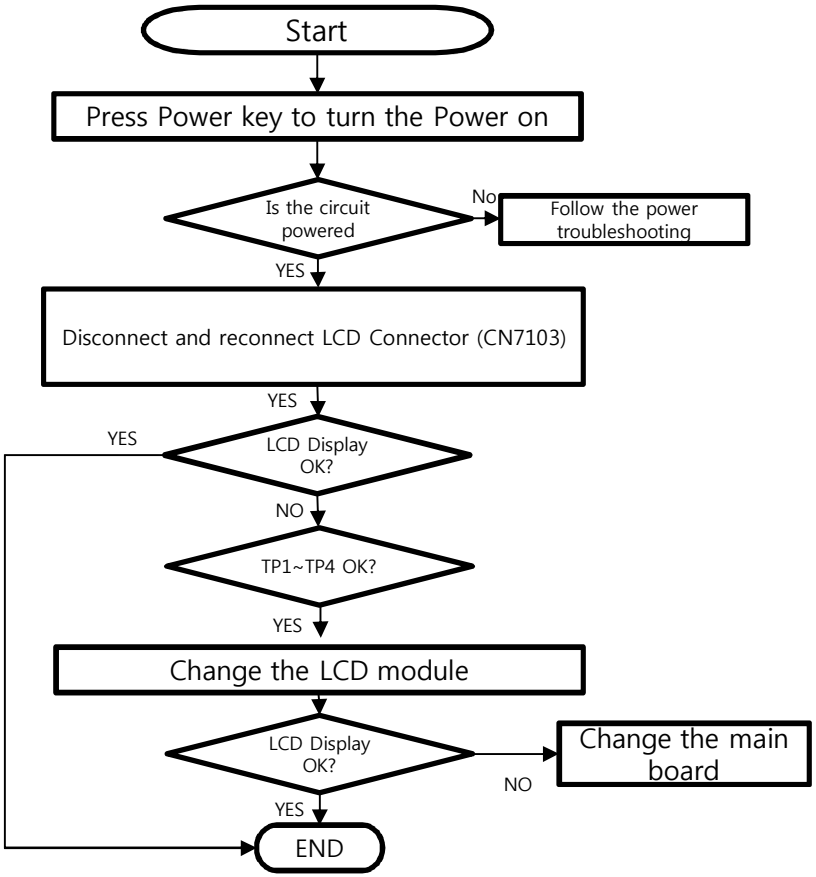


Circuit Diagram

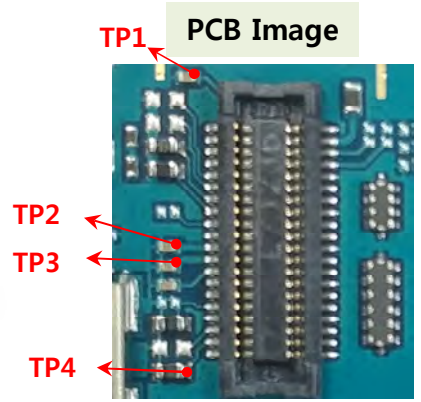


Main LCD control signals are generated by MSM8940

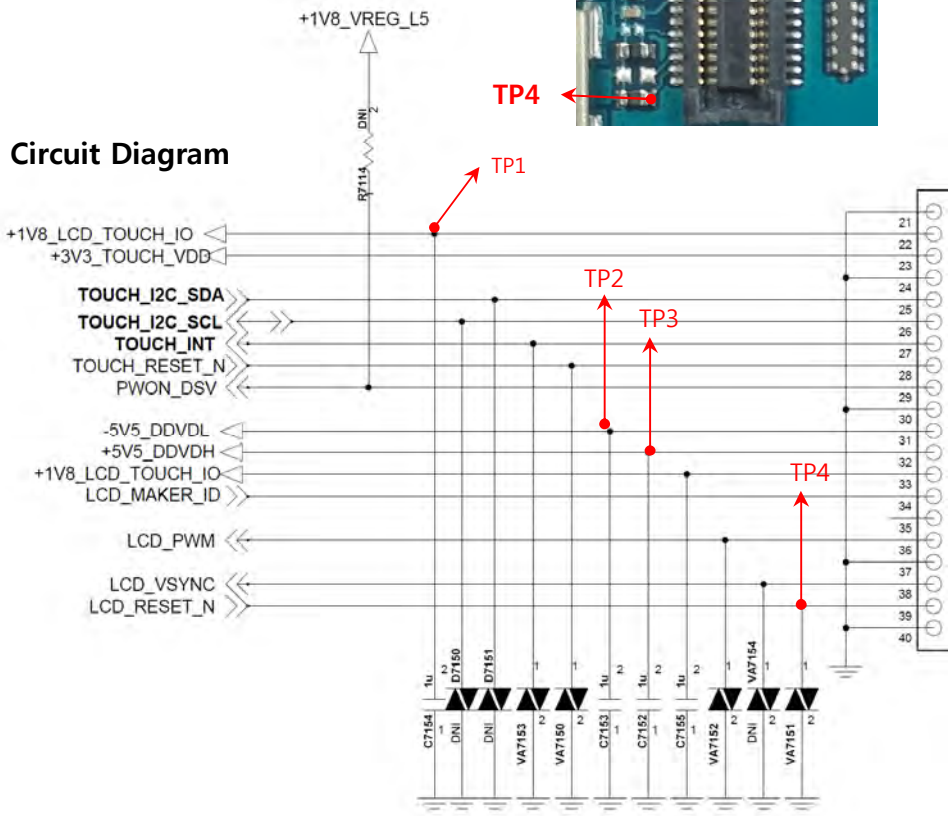
Checking Flow



PCB Image

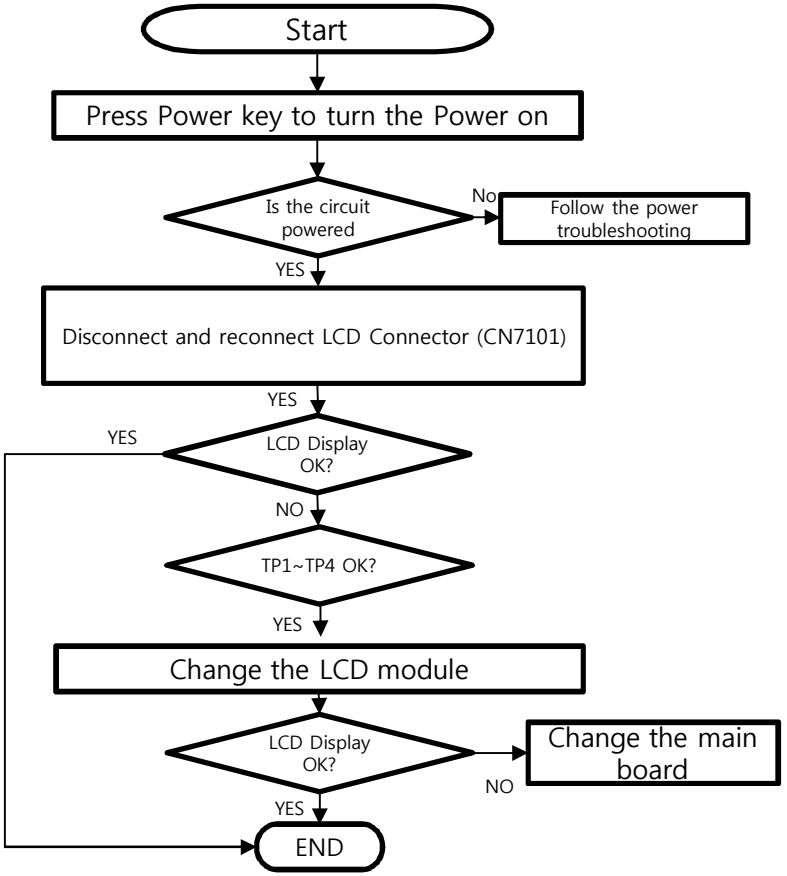


Circuit Diagram

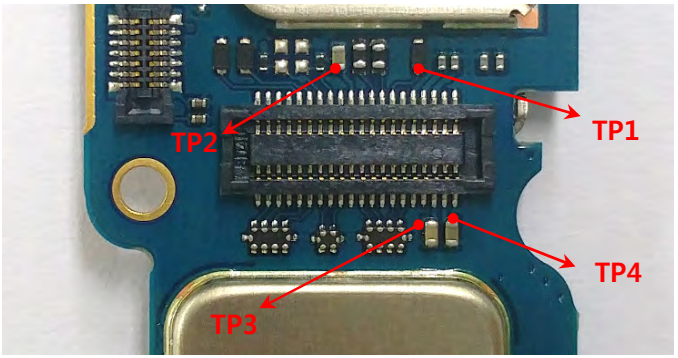


Main LCD control signals are generated by MSM8940

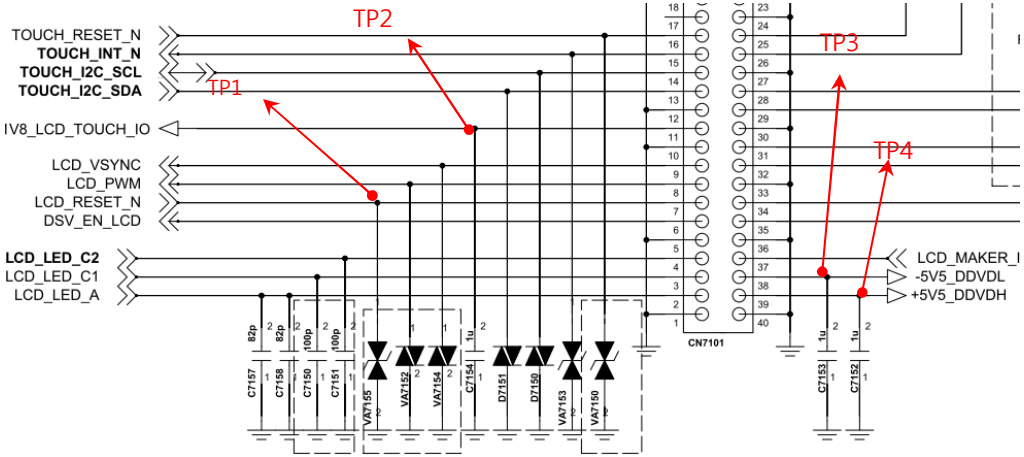
Checking Flow

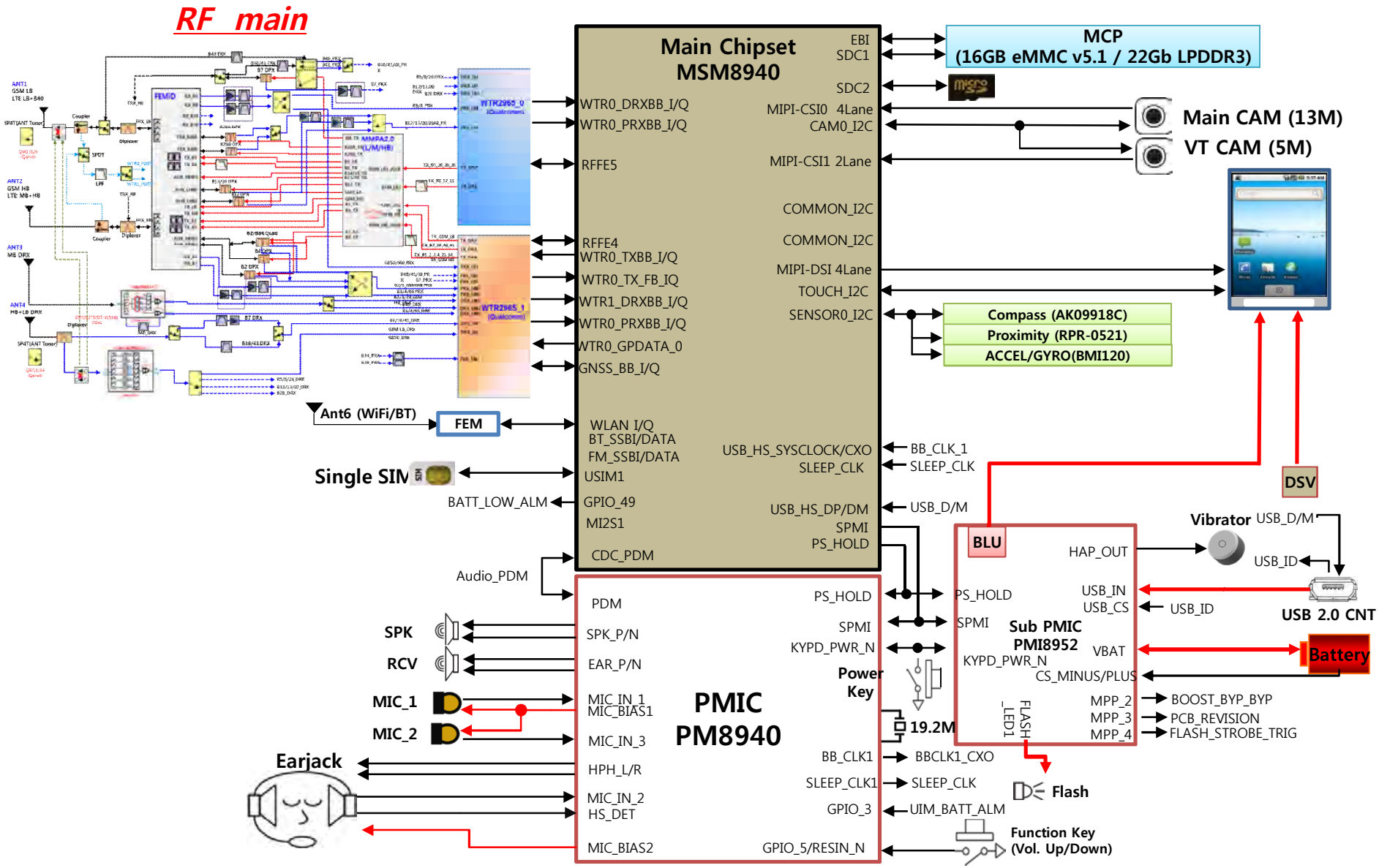


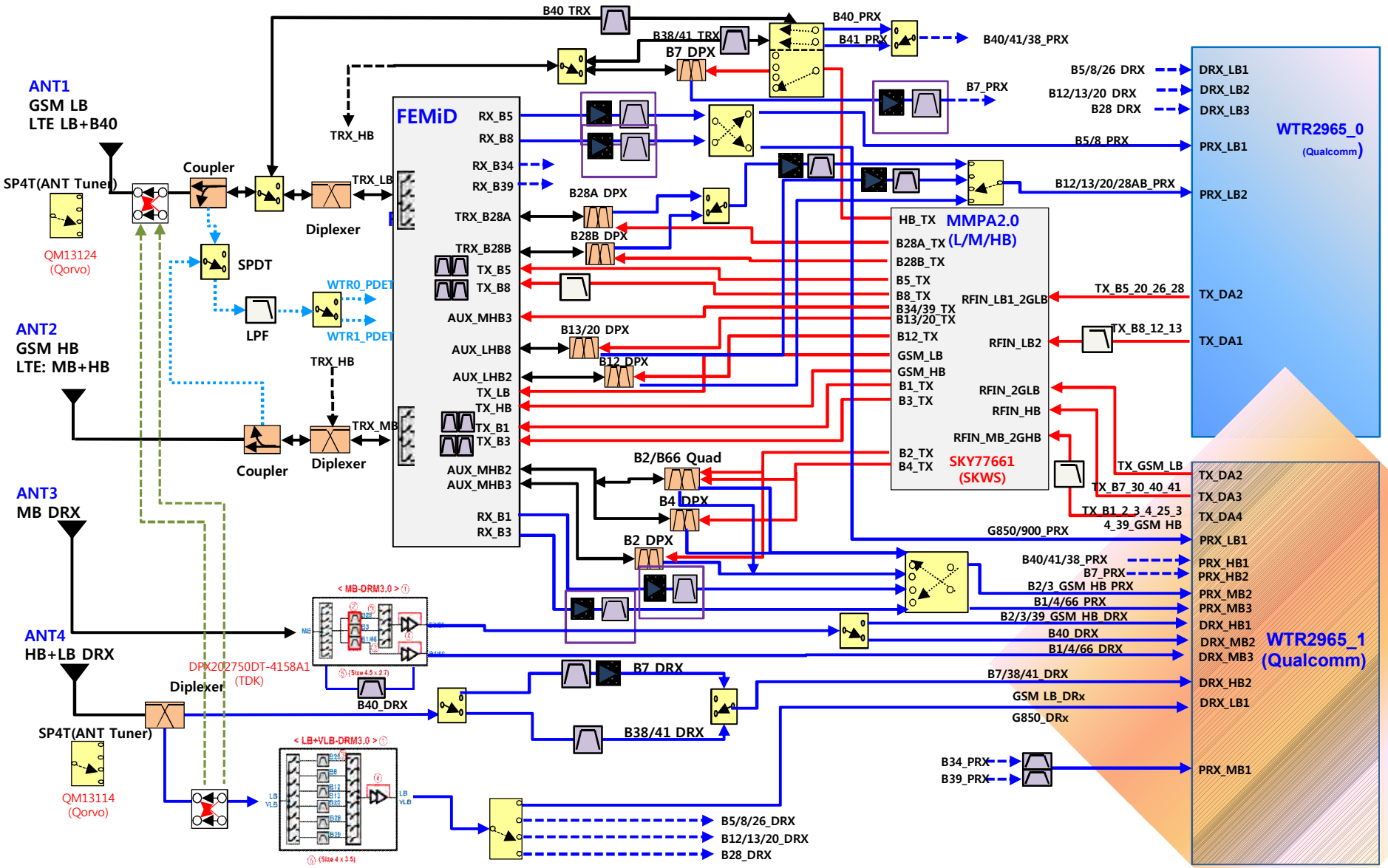
PCB Image



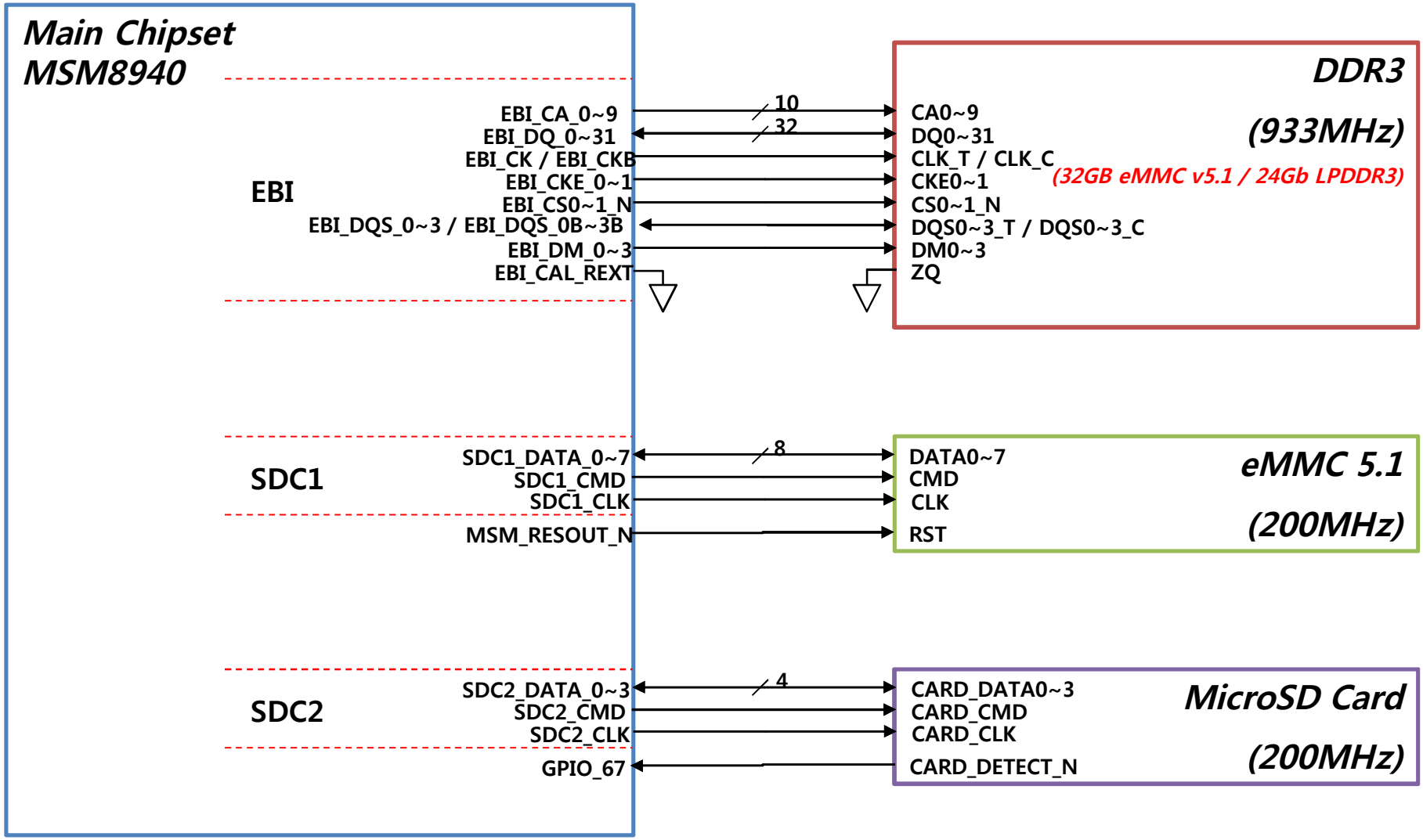
Circuit Diagram



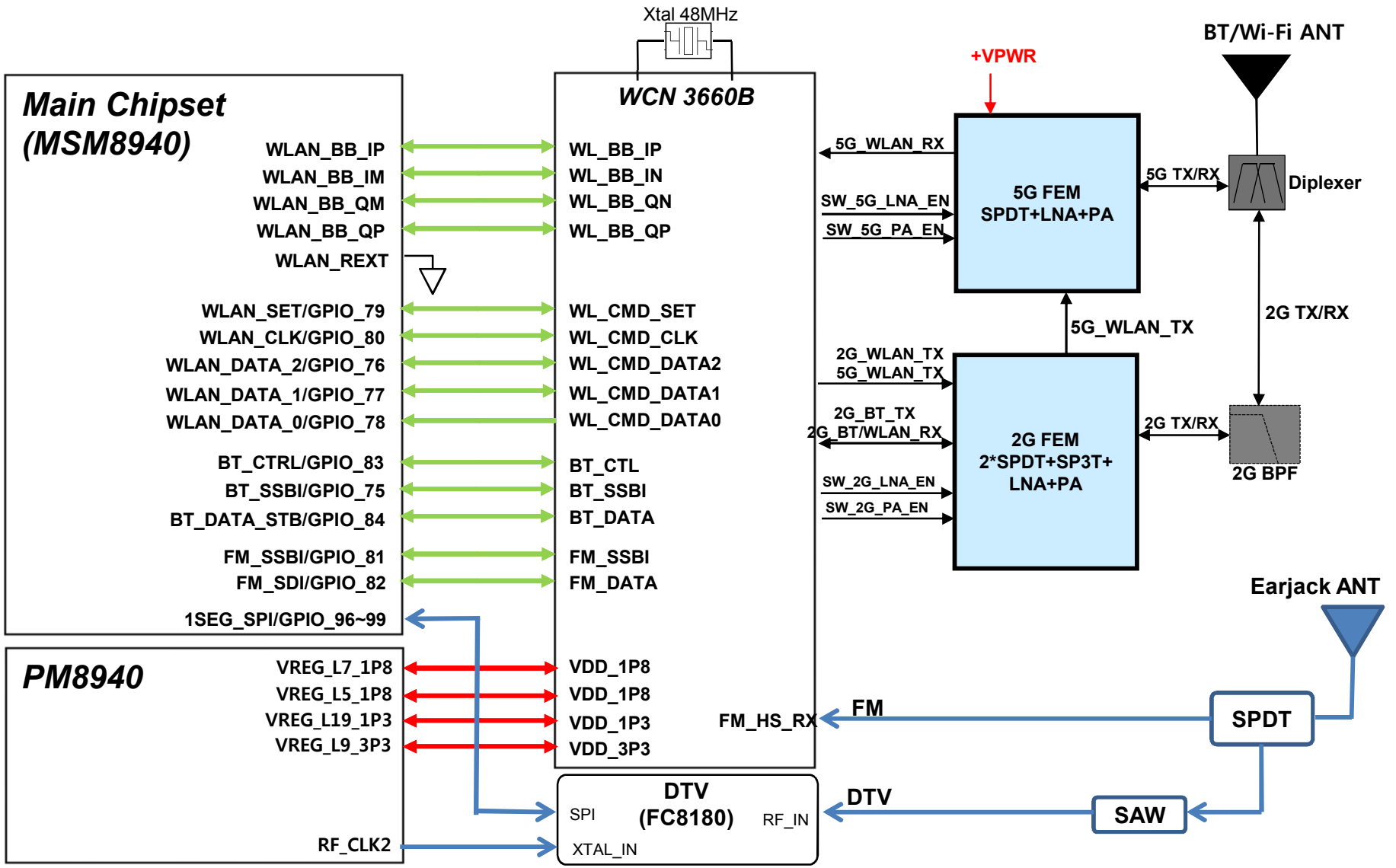

RF main
Main Chipset
MSM8940
EBI
SDC1
SDC2
MCP
(16GB eMMC v5.1 / 22Gb LPDDR3)
WTR0_DRXBB_I/Q
WTR0_PRXBB_I/Q
MIPI-CSI0 4Lane
CAM0_I2C
Main CAM (13M)
VT CAM (5M)
RFFE5
MIPI-CSI1 2Lane
COMMON_I2C
RFFE4
COMMON_I2C
WTR0_TXBB_I/Q
MIPI-DSI 4Lane
WTR0_TX_FB_IQ
TOUCH_I2C
WTR1_DRXBB_I/Q
SENSOR0_I2C
Compass (AK09918C)
Proximity (RPR-0521)
ACCEL/GYRO(BMI120)
WTR0_PRXBB_I/Q
WTR0_GPDATA_0
GNSS_BB_I/Q
Ant6 (WiFi/BT)
FEM
WLAN I/Q
BT_SSBI/DATA
FM_SSBI/DATA
USB_HS_SYSCLOCK/CXO
SLEEP_CLK
BB_CLK_1
SLEEP_CLK
Single SIM
USIM1
BATT_LOW_ALM
GPIO_49
MI2S1
USB_HS_DP/DM
SPMI
PS_HOLD
USB_D/M
DSV
CDC_PDM
Audio_PDM
BLU
HAP_OUT
Vibrator
USB_D/M
USB_ID
PDM
PS_HOLD
PS_HOLD
USB_IN
USB_CS
USB_ID
USB 2.0 CNT
SPK
SPK_P/N
SPMI
Sub PMIC
PMI8952
KYPD_PWR_N
VBAT
Battery
RCV
EAR_P/N
KYPD_PWR_N
CS_MINUS/PLUS
Power
Key
MIC_1
MIC_IN_1
MIC_BIAS1
PMIC
PM8940
MPP_2
MPP_3
MPP_4
BOOST_BYP_BYP
PCB_REVISION
FLASH_STROBE_TRIG
MIC_2
MIC_IN_3
19.2M
FLASH_LED1
Earjack
HPH_L/R
BB_CLK1
BBCLK1_CXO
MIC_IN_2
HS_DET
SLEEP_CLK1
SLEEP_CLK
Flash
GPIO_3
UIM_BATT_ALM
MIC_BIAS2
GPIO_5/RESIN_N
Function Key
(Vol. Up/Down)

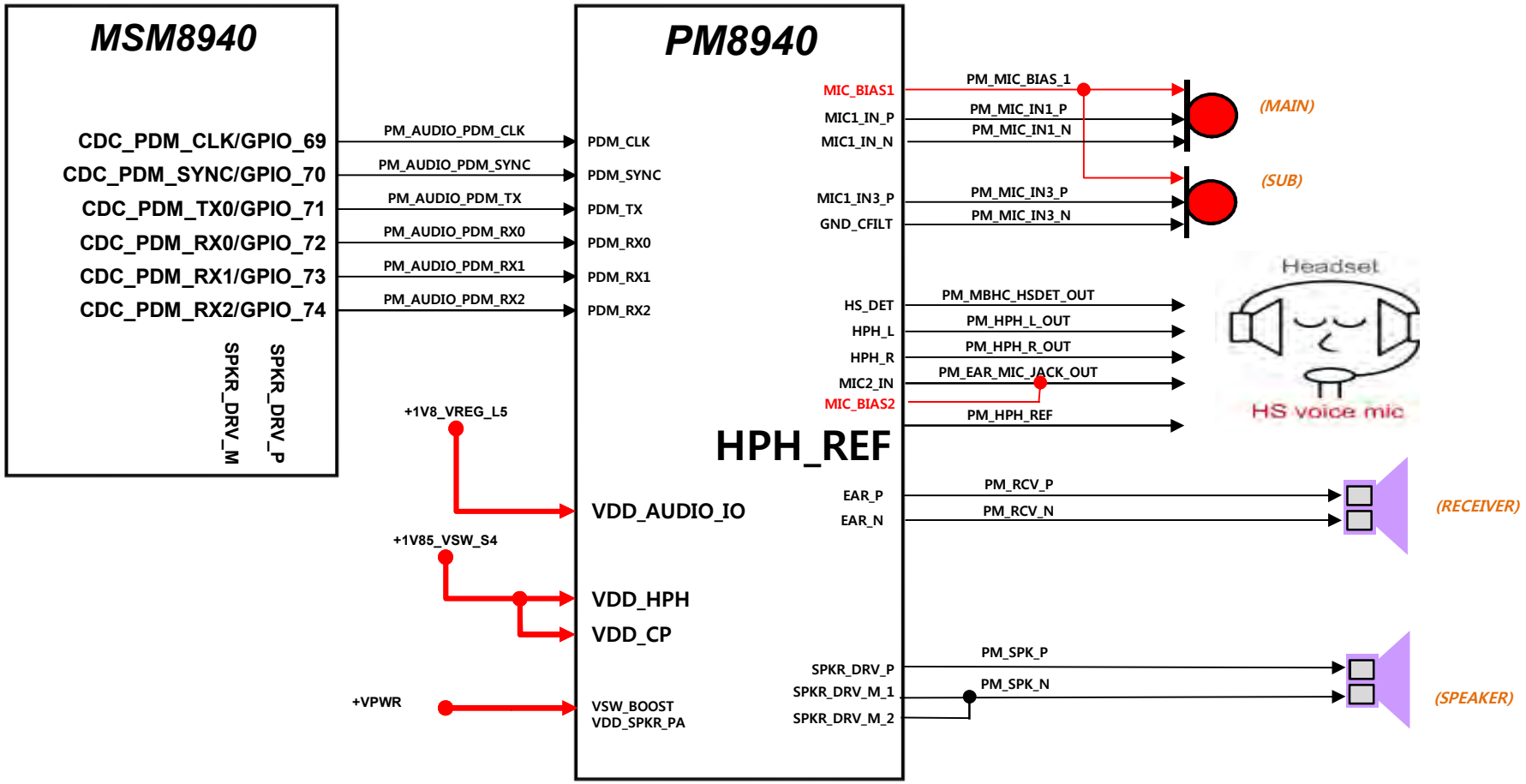


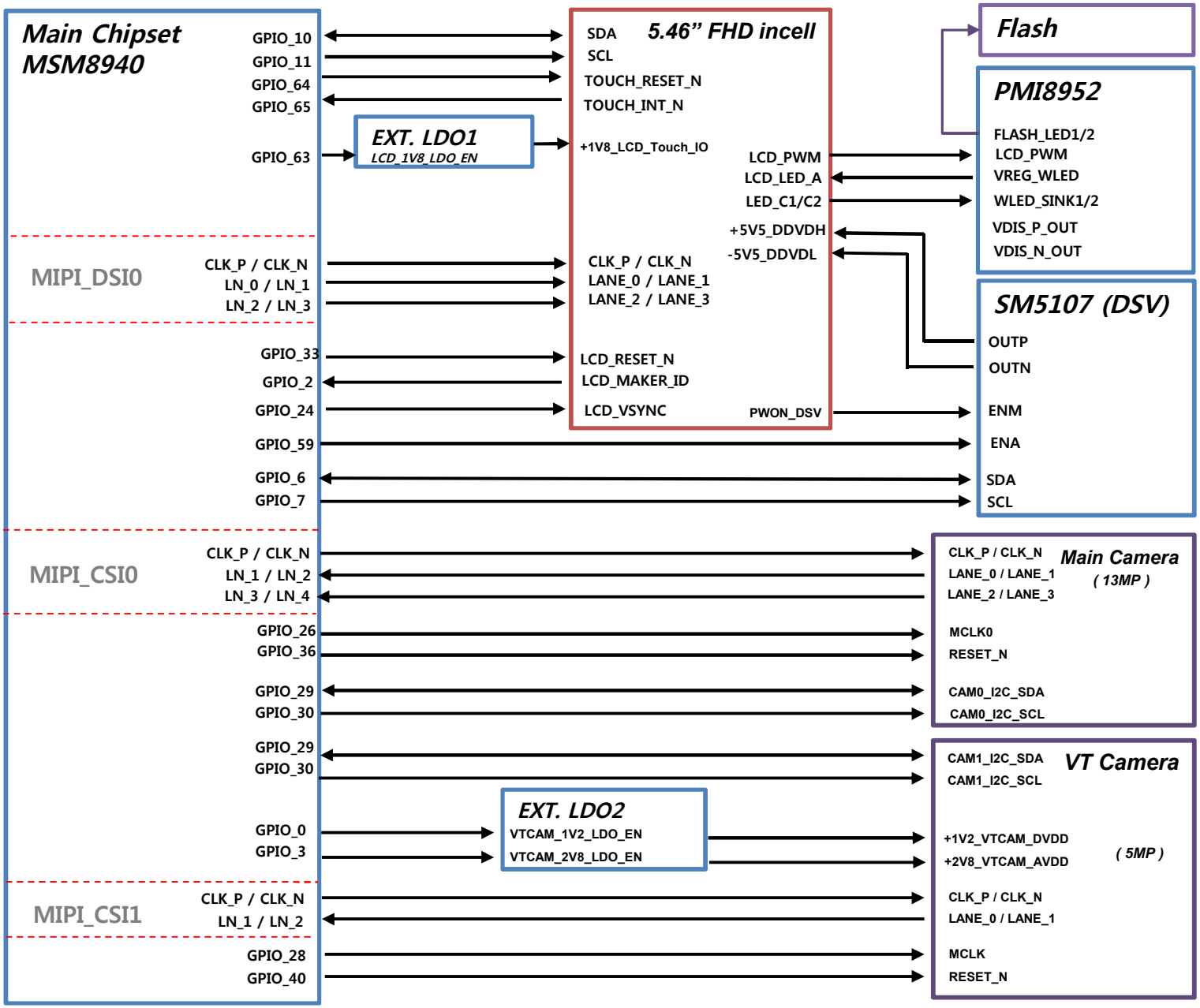
4. BLOCK DIAGRAM



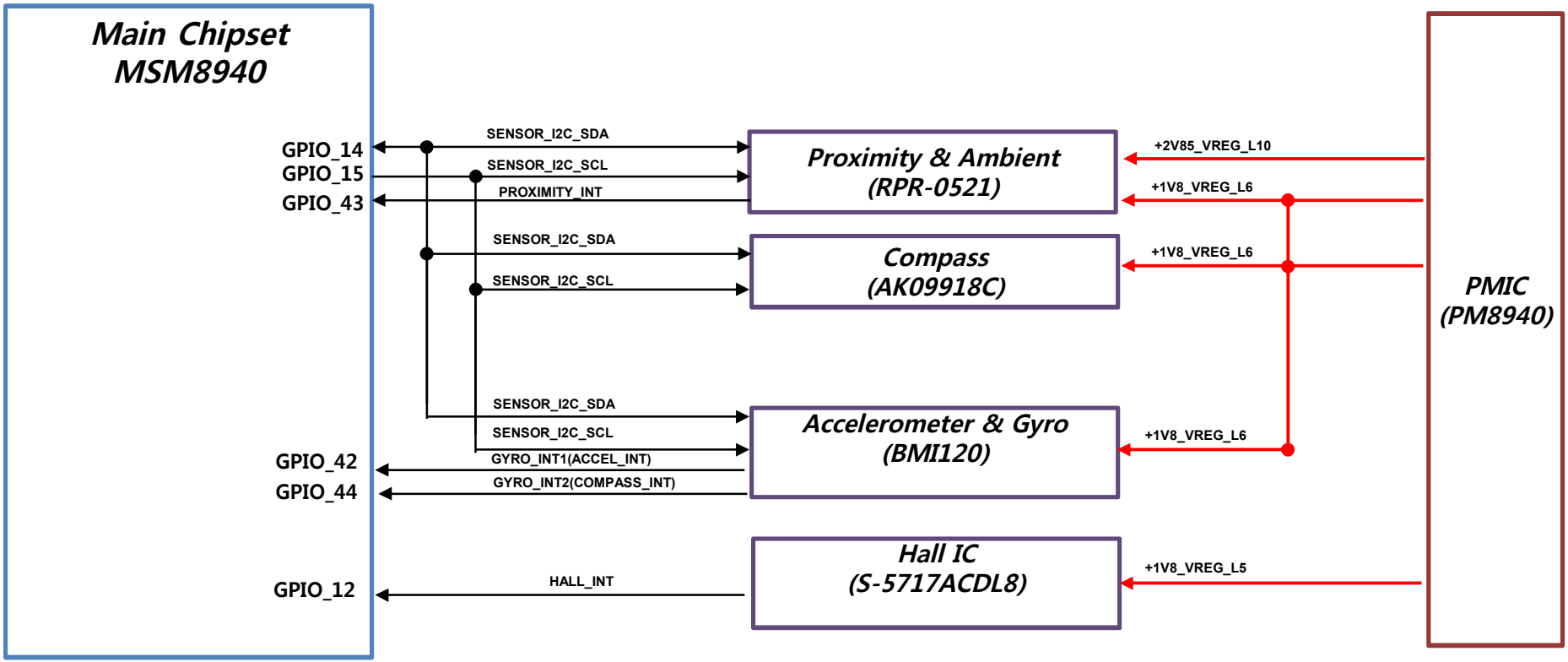
4. BLOCK DIAGRAM

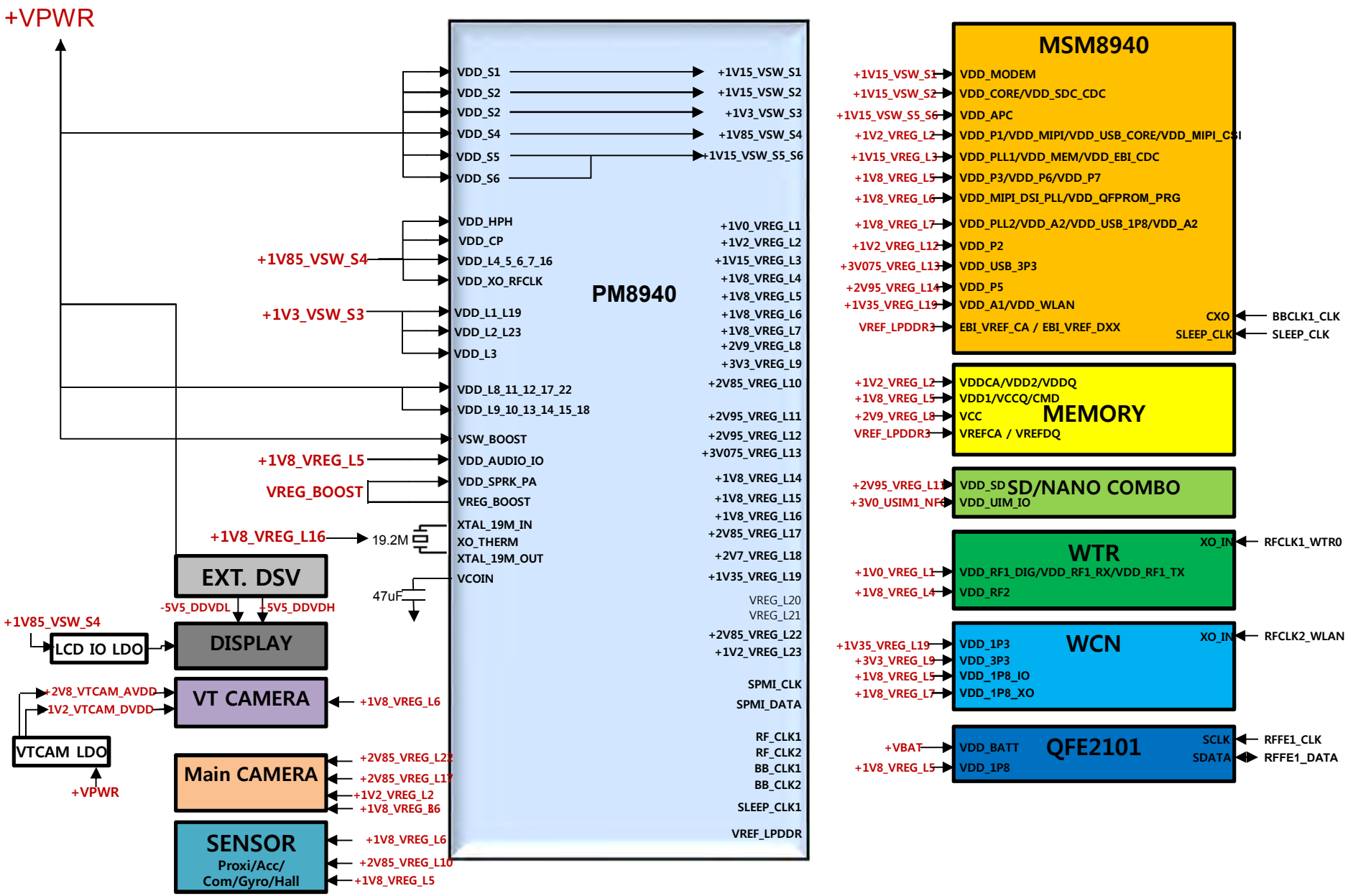



MSM8940
CDC_PDM_CLK/GPIO_69
CDC_PDM_SYNC/GPIO_70
CDC_PDM_TX0/GPIO_71
CDC_PDM_RX0/GPIO_72
CDC_PDM_RX1/GPIO_73
CDC_PDM_RX2/GPIO_74
SPKR_DRV_M
SPKR_DRV_P
PM_AUDIO_PDM_CLK
PM_AUDIO_PDM_SYNC
PM_AUDIO_PDM_TX
PM_AUDIO_PDM_RX0
PM_AUDIO_PDM_RX1
PM_AUDIO_PDM_RX2
PM8940
PDM_CLK
PDM_SYNC
PDM_TX
PDM_RX0
PDM_RX1
PDM_RX2
+1V8_VREG_L5
VDD_AUDIO_IO
+1V85_VSW_S4
VDD_HPH
VDD_CP
+VPWR
VSW_BOOST
VDD_SPKR_PA
MIC_BIAS1
MIC1_IN_P
MIC1_IN_N
MIC1_IN3_P
GND_CFILT
HS_DET
HPH_L
HPH_R
MIC2_IN
MIC_BIAS2
HPH_REF
EAR_P
EAR_N
SPKR_DRV_P
SPKR_DRV_M_1
SPKR_DRV_M_2
PM_MIC_BIAS_1
PM_MIC_IN1_P
PM_MIC_IN1_N
PM_MIC_IN3_P
PM_MIC_IN3_N
PM_MBHC_HSDET_OUT
PM_HPH_L_OUT
PM_HPH_R_OUT
PM_EAR_MIC_JACK_OUT
PM_HPH_REF
PM_RCV_P
PM_RCV_N
PM_SPK_P
PM_SPK_N
(MAIN)
(SUB)
Headset
HS voice mic
(RECEIVER)
(SPEAKER)

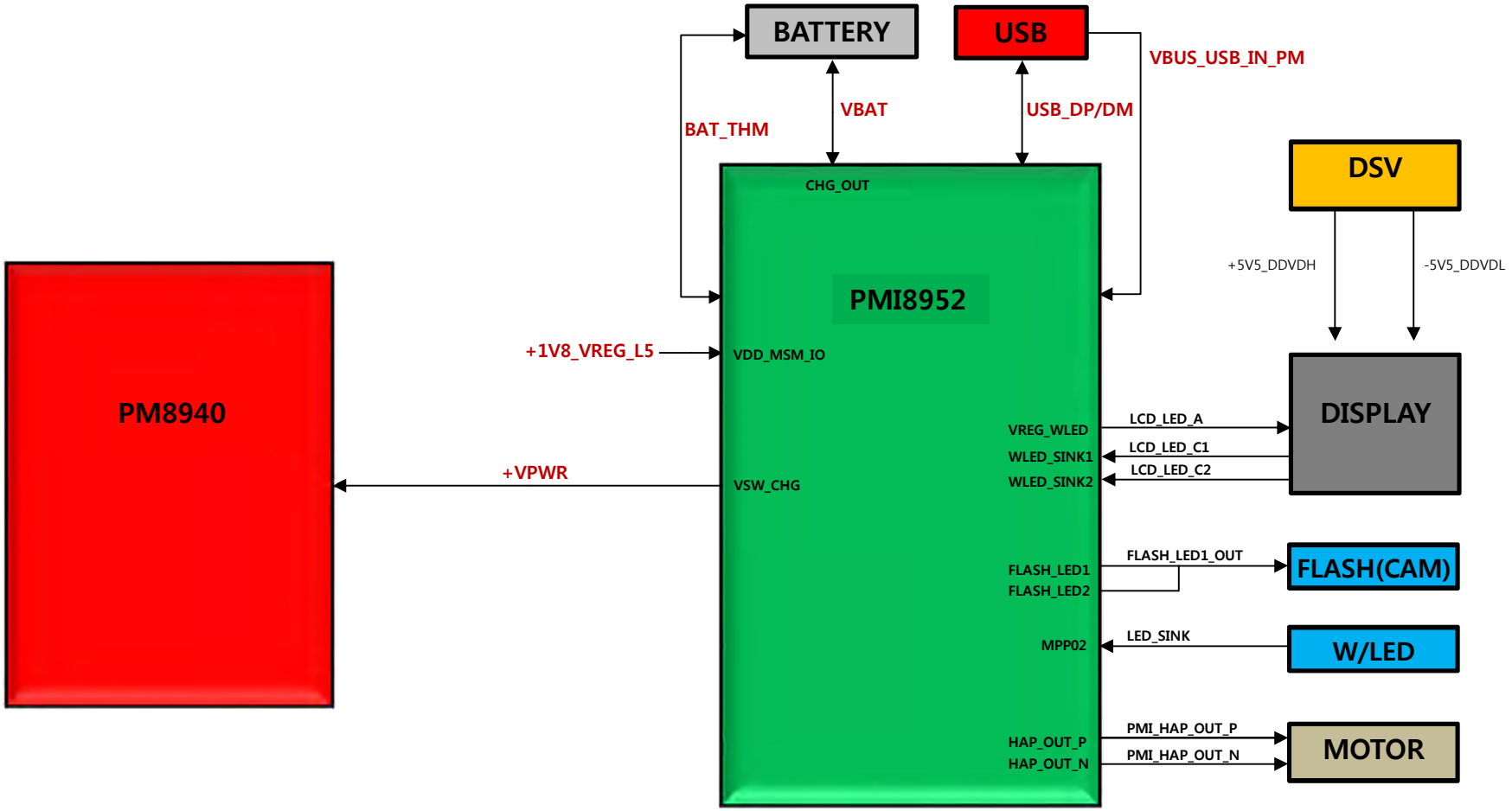

Main Chipset
MSM8940
GPIO_10
GPIO_11
GPIO_64
GPIO_65
GPIO_63
EXT. LDO1
LCD_1V8_LDO_EN
5.46" FHD incell
SDA
SCL
TOUCH_RESET_N
TOUCH_INT_N
+1V8_LCD_Touch_IO
LCD_PWM
LCD_LED_A
LED_C1/C2
+5V5_DDVDH
-5V5_DDVDL
Flash
PMI8952
FLASH_LED1/2
LCD_PWM
VREG_WLED
WLED_SINK1/2
VDIS_P_OUT
VDIS_N_OUT
MIPI_DSI0
CLK_P / CLK_N
LN_0 / LN_1
LN_2 / LN_3
CLK_P / CLK_N
LANE_0 / LANE_1
LANE_2 / LANE_3
SM5107 (DSV)
OUTP
OUTN
GPIO_33
GPIO_2
GPIO_24
GPIO_59
GPIO_6
GPIO_7
LCD_RESET_N
LCD_MAKER_ID
LCD_VSYNC
PWON_DSV
ENM
ENA
SDA
SCL
MIPI_CSI0
CLK_P / CLK_N
LN_1 / LN_2
LN_3 / LN_4
Main Camera
(13MP)
CLK_P / CLK_N
LANE_0 / LANE_1
LANE_2 / LANE_3
GPIO_26
GPIO_36
GPIO_29
GPIO_30
MCLK0
RESET_N
CAM0_I2C_SDA
CAM0_I2C_SCL
GPIO_29
GPIO_30
VT Camera
CAM1_I2C_SDA
CAM1_I2C_SCL
EXT. LDO2
VTCAM_1V2_LDO_EN
VTCAM_2V8_LDO_EN
GPIO_0
GPIO_3
+1V2_VTCAM_DVDD
+2V8_VTCAM_AVDD
(5MP)
MIPI_CSI1
CLK_P / CLK_N
LN_1 / LN_2
CLK_P / CLK_N
LANE_0 / LANE_1
GPIO_28
GPIO_40
MCLK
RESET_N

4. BLOCK DIAGRAM




+VPWR
PM8940
VDD_S1
VDD_S2
VDD_S2
VDD_S4
VDD_S5
VDD_S6
+1V15_VSW_S1
+1V15_VSW_S2
+1V3_VSW_S3
+1V85_VSW_S4
+1V15_VSW_S5_S6
VDD_HPH
VDD_CP
VDD_L4_5_6_7_16
VDD_XO_RFCLK
+1V85_VSW_S4
+1V3_VSW_S3
VDD_L1_L19
VDD_L2_L23
VDD_L3
VDD_L8_11_12_17_22
VDD_L9_10_13_14_15_18
VSW_BOOST
+1V8_VREG_L5
VDD_AUDIO_IO
VREG_BOOST
VDD_SPRK_PA
VREG_BOOST
+1V8_VREG_L16
19.2M
XTAL_19M_IN
XO_THERM
XTAL_19M_OUT
VCOIN
47uF
+1V0_VREG_L1
+1V2_VREG_L2
+1V15_VREG_L3
+1V8_VREG_L4
+1V8_VREG_L5
+1V8_VREG_L6
+1V8_VREG_L7
+2V9_VREG_L8
+3V3_VREG_L9
+2V85_VREG_L10
+2V95_VREG_L11
+2V95_VREG_L12
+3V075_VREG_L13
+1V8_VREG_L14
+1V8_VREG_L15
+1V8_VREG_L16
+2V85_VREG_L17
+2V7_VREG_L18
+1V35_VREG_L19
VREG_L20
VREG_L21
+2V85_VREG_L22
+1V2_VREG_L23
SPMI_CLK
SPMI_DATA
RF_CLK1
RF_CLK2
BB_CLK1
BB_CLK2
SLEEP_CLK1
VREF_LPDDR
EXT. DSV
-5V5_DDVDL
+5V5_DDVDH
DISPLAY
LCD IO LDO
+1V85_VSW_S4
VT CAMERA
+2V8_VTCAM_AVDD
+1V2_VTCAM_DVDD
+1V8_VREG_L6
VTCAM LDO
+VPWR
Main CAMERA
+2V85_VREG_L22
+2V85_VREG_L17
+1V2_VREG_L2
+1V8_VREG_B6
SENSOR
Proxi/Acc/
Com/Gyro/Hall
+1V8_VREG_L6
+2V85_VREG_L10
+1V8_VREG_L5
MSM8940
+1V15_VSW_S1
+1V15_VSW_S2
+1V15_VSW_S5_S6
+1V2_VREG_L2
+1V15_VREG_L3
+1V8_VREG_L5
+1V8_VREG_L6
+1V8_VREG_L7
+1V2_VREG_L12
+3V075_VREG_L13
+2V95_VREG_L14
+1V35_VREG_L19
VREF_LPDDR3
VDD_MODEM
VDD_CORE/VDD_SDC_CDC
VDD_APC
VDD_P1/VDD_MIPI/VDD_USB_CORE/VDD_MIPI_CSI
VDD_PLL1/VDD_MEM/VDD_EBI_CDC
VDD_P3/VDD_P6/VDD_P7
VDD_MIPI_DSI_PLL/VDD_QFPROM_PRG
VDD_PLL2/VDD_A2/VDD_USB_1P8/VDD_A2
VDD_P2
VDD_USB_3P3
VDD_P5
VDD_A1/VDD_WLAN
EBI_VREF_CA / EBI_VREF_DXX
CXO
SLEEP_CLK
BBCLK1_CLK
SLEEP_CLK
MEMORY
+1V2_VREG_L2
+1V8_VREG_L5
+2V9_VREG_L8
VREF_LPDDR3
VDDCA/VDD2/VDDQ
VDD1/VCCQ/CMD
VCC
VREFCA / VREFDQ
SD/NANO COMBO
+2V95_VREG_L11
+3V0_USIM1_NFC
VDD_SD
VDD_UIM_IO
WTR
+1V0_VREG_L1
+1V8_VREG_L4
VDD_RF1_DIG/VDD_RF1_RX/VDD_RF1_TX
VDD_RF2
XO_IN
RFCLK1_WTR0
WCN
+1V35_VREG_L19
+3V3_VREG_L9
+1V8_VREG_L5
+1V8_VREG_L7
VDD_1P3
VDD_3P3
VDD_1P8_IO
VDD_1P8_XO
XO_IN
RFCLK2_WLAN
QFE2101
+VBAT
+1V8_VREG_L5
VDD_BATT
VDD_1P8
SCLK
SDATA
RFFE1_CLK
RFFE1_DATA

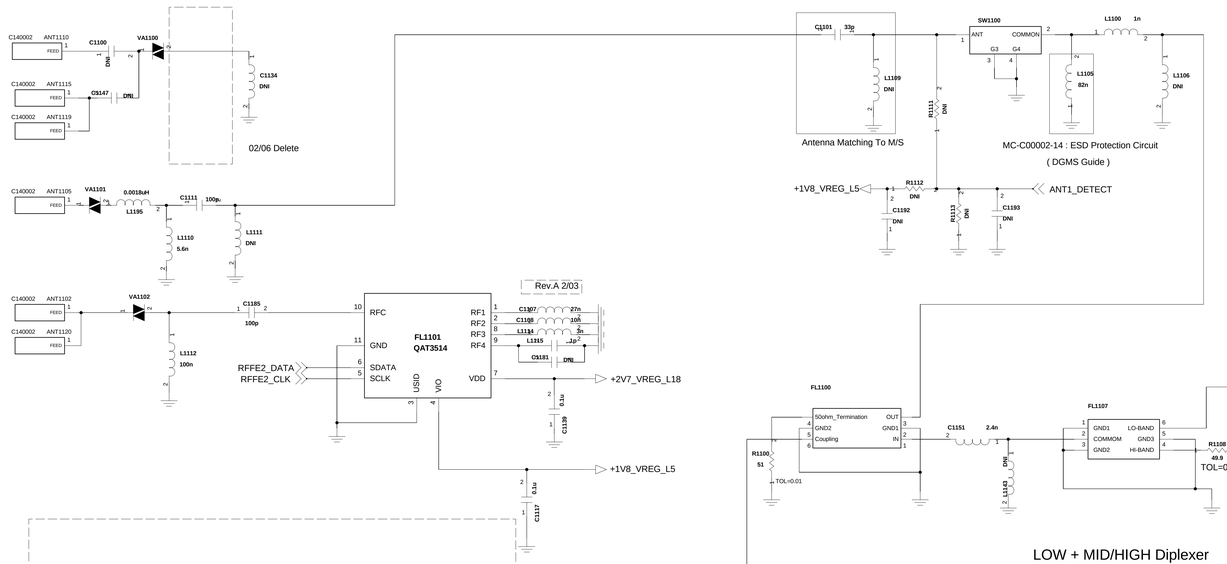
4. BLOCK DIAGRAM



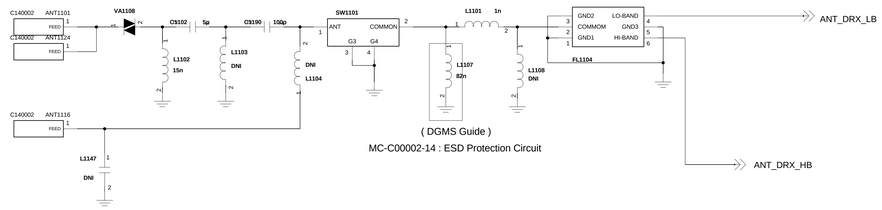
CIRCUIT DIAGRAM

1-1-1-5-ANT_MB+HB_LB+B40_QFE2550_separated_MIMO_metal

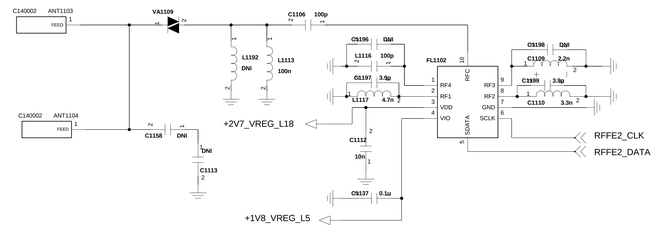
ANT #1 (GSM_LB, LB+B40)



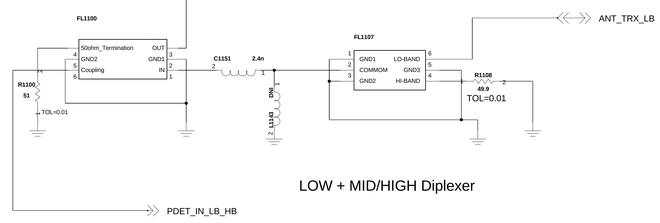
ANT #4 (LB MIMO/HB MIMO)



ANT#4 TUNER

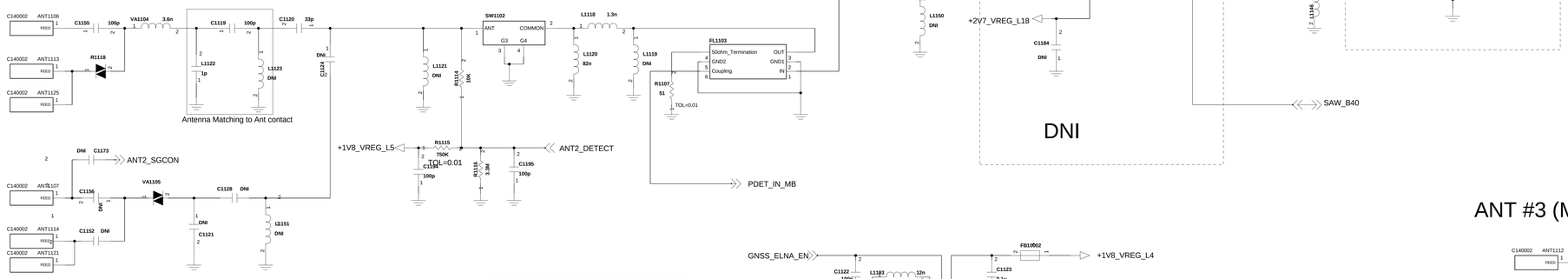


FL1100 / FL1107 / U1100 (LOW + MID/HIGH Diplexer)

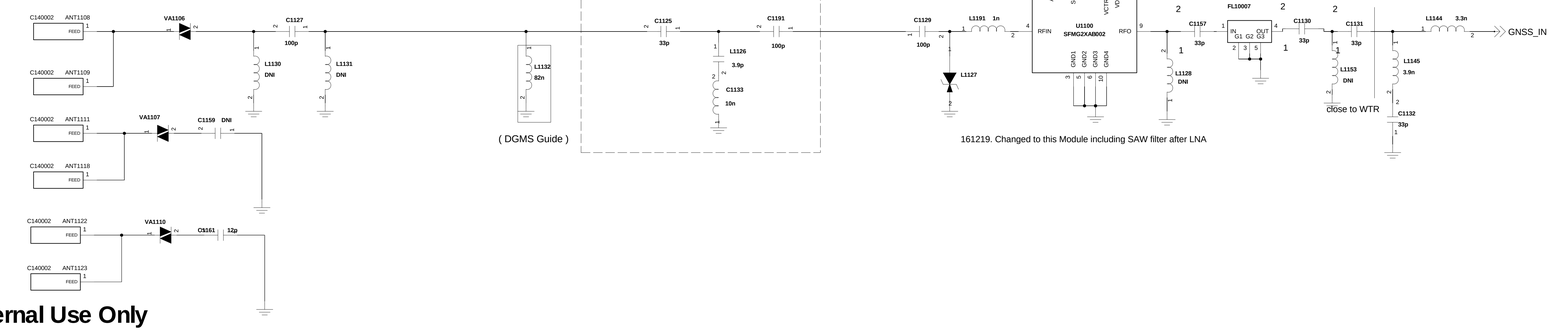


Cap Sensor »èÁ¦ 0309

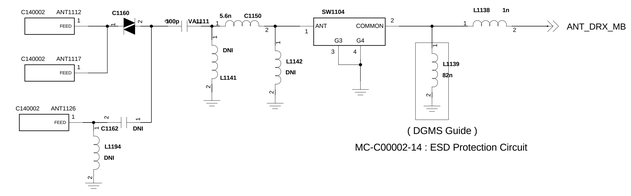
ANT #2 (GSM_HB, MB+HB)



ANT #5 (GPS)



ANT #3 (MB MIMO)



LGE Internal Use Only

LG Electronics

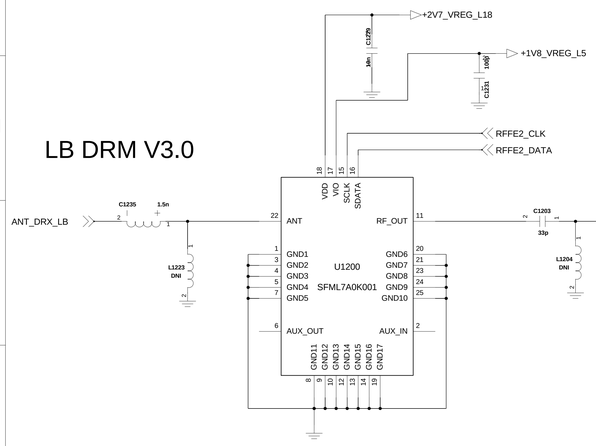
TITLE: LGM700TV

SIZE: A2 | DWG NO: PDM NUMBER | REV: 1.0

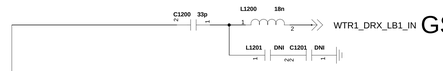
DRAWN BY: User Name | SHEET: of | Date: Drawing Date

1-2-2-3-DRX_LB_DRM_3_0_MB_DRM_3_0

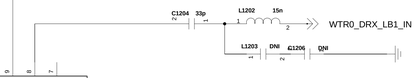
LB DRM V3.0

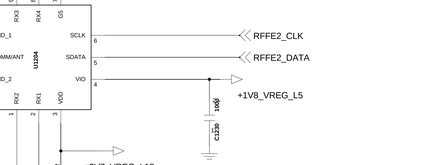


GSMLB DRX

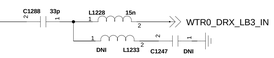


B5,B8 MIMO

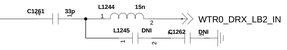




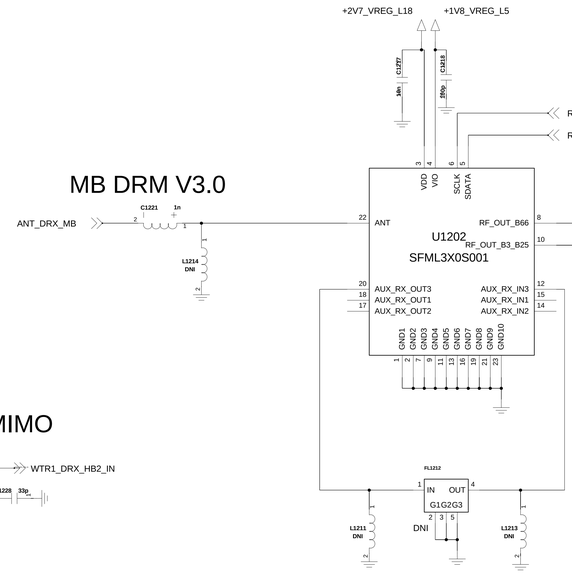
B28 MIMO



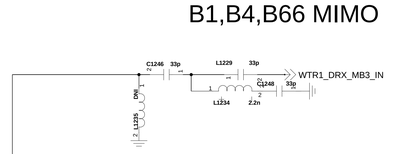
B12,13,17,20 MIMO



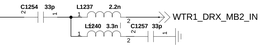
MB DRM V3.0



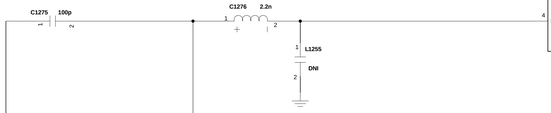
B1,B4,B66 MIMO

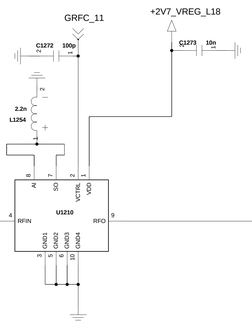


GSMHB DRX
B2,B3,B39 MIMO

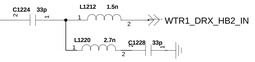


B7

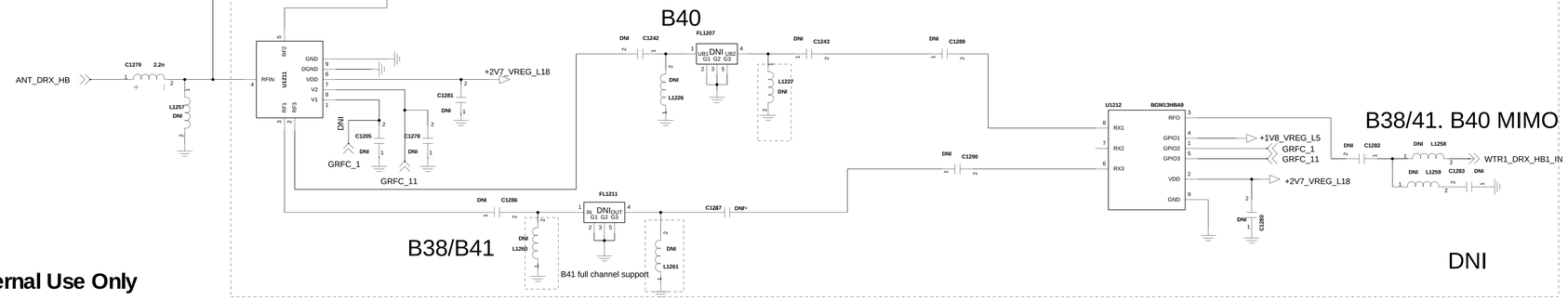




B7 MIMO



B40



B38/41. B40 MIMO

B38/B41

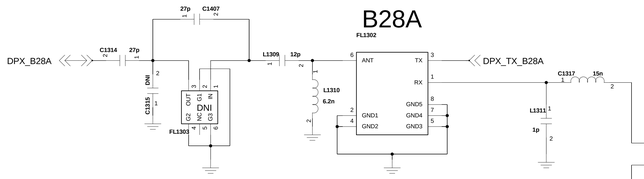
DNI

LGE Internal Use Only

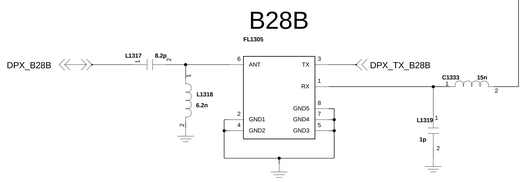
LG Electronics	
TITLE	LGM700TV
SIZE: A2	DWG NO: PDM NUMBER
REV: 1.0	
DRAWN BY: User Name	SHEET: of
Date: Drawing Date	

1-2-3-7-Mass FEMiD_CA_B28_B34_B39_2+66QPX_exB40_28LNA

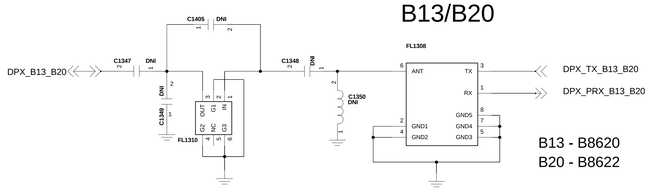
B28A



B28B

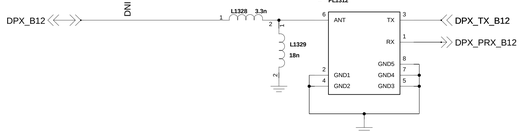


B13/20

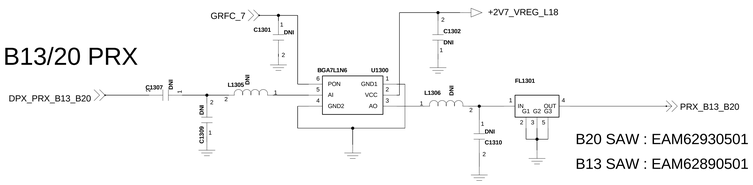


B13 - B8620
B20 - B8622

B12/17

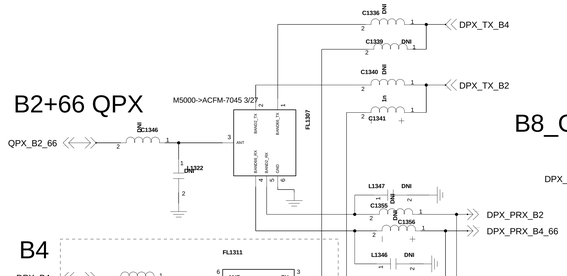


B13/20 PRX

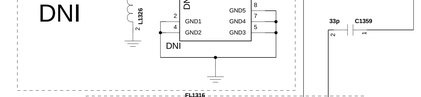


B20 SAW : EAM62930501
B13 SAW : EAM62890501

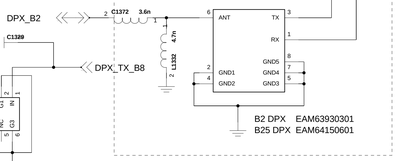
B2+66 QPX



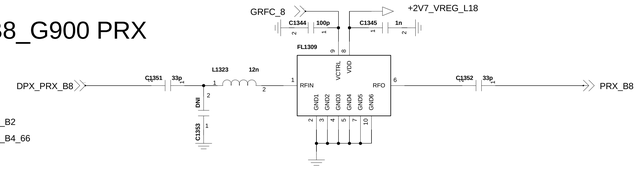
B4



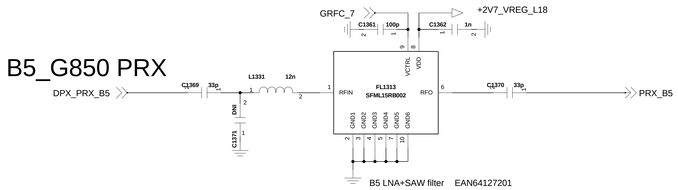
B2



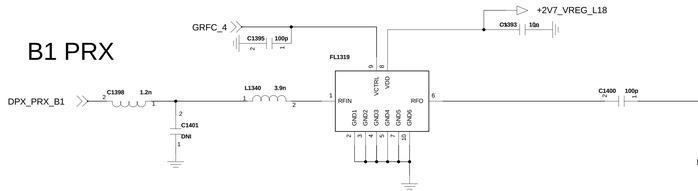
B8_G900 PRX



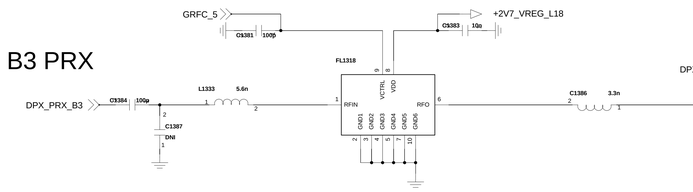
B5_G850 PRX



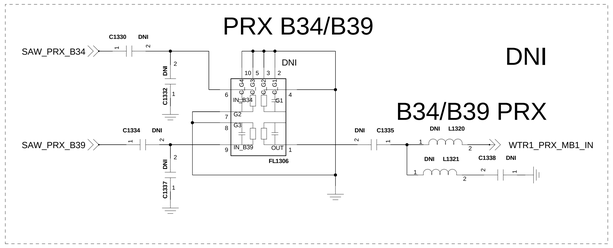
B1 PRX



B3 PRX



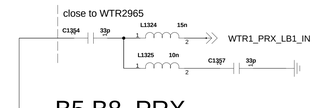
PRX B34/B39



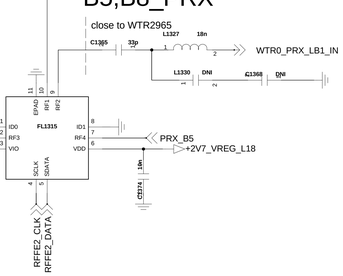
DNI

B34/B39 PRX

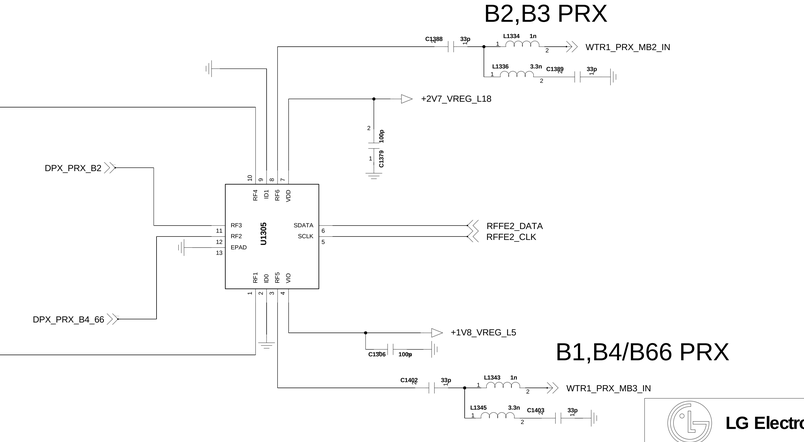
G850_900 PRX



B5,B8_PRX

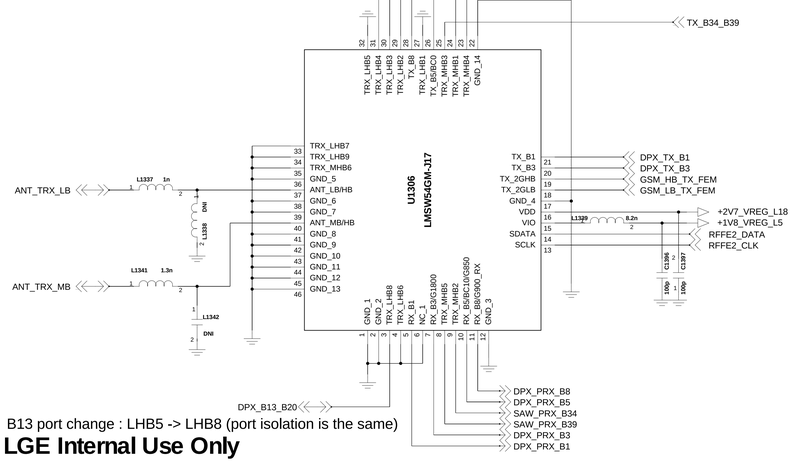


GSMHB PRX
B2,B3 PRX



B1,B4/B66 PRX

U1306 LMSW54GM-J17



B13 port change : LHB5 -> LHB8 (port isolation is the same)

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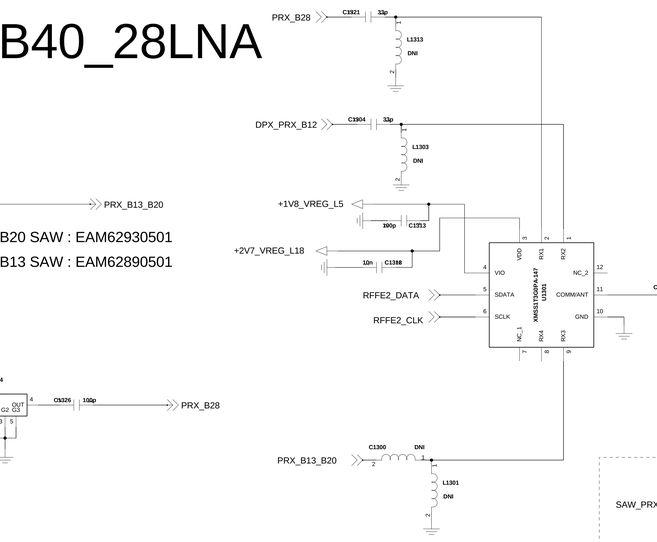
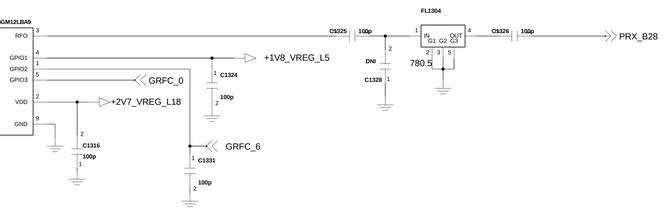
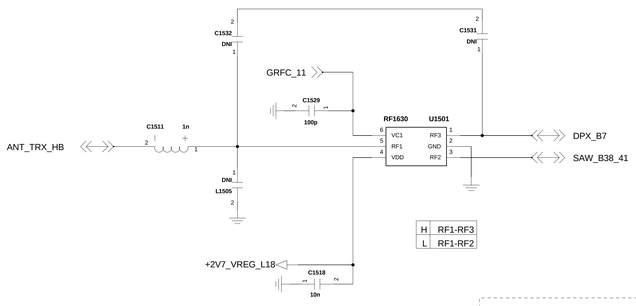




LG Electronics	
TITLE	LGM700TV
SIZE	A2
DWG NO	PDM NUMBER
REV	1.0
Drawn BY	User Name
SHEET	of
Date	Drawing Date

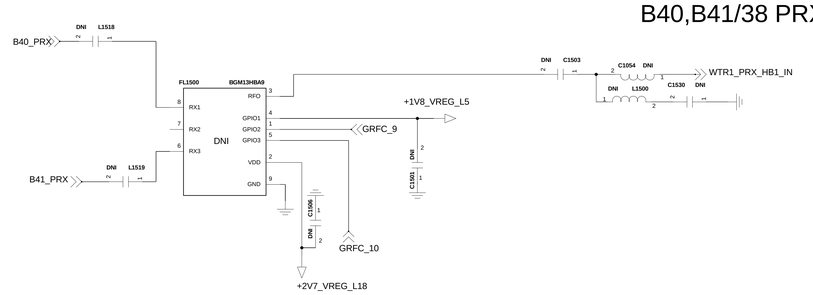
1-1-4-3-HB_CA_B7_B40_B41

ASM(HB)

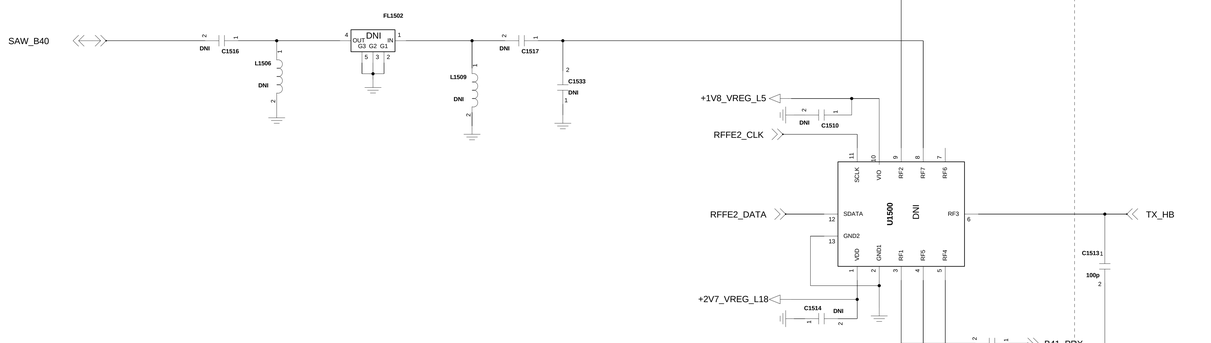


DNI

B40,B41/38 PRX

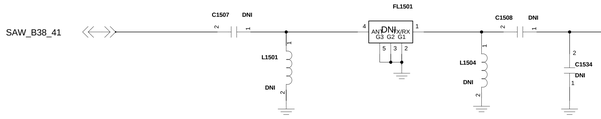


B40 TRX

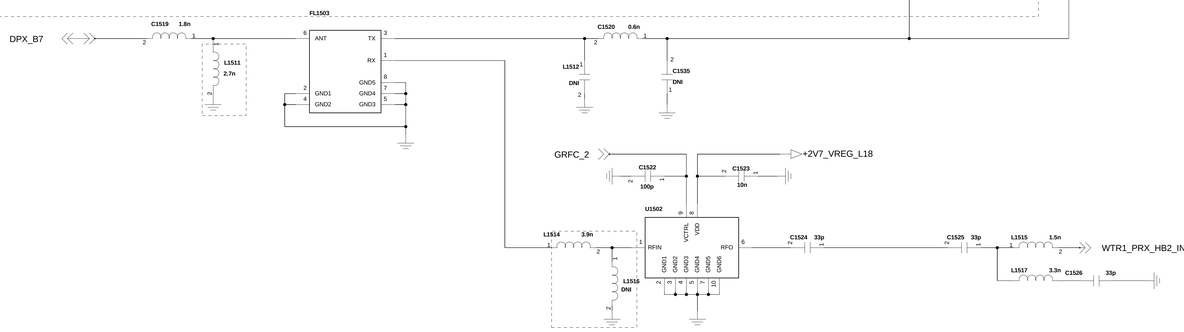


DNI

B38_B41 TRX



B7 TRX



B7 PRX

LGE Internal Use Only

LG Electronics	
TITLE	LGM700TV
SIZE	A2
DWG NO	PDM NUMBER
REV	1.0
DRAWN BY	User Name
SHEET	of
Date	Drawing Date

1-1-5-3-MMPA2_0

MMPA2.0

VCC2G : 2.5A

VBATT : 100mA

VCC3G : 800mA

GSM LB — GSM_LB_TX_FEM

GSM HB — GSM_HB_TX_FEM

B1 — DPX_TX_B1

B3 — DPX_TX_B3

B4 — DPX_TX_B4

B2 — DPX_TX_B2

B34/B39 — TX_B34_B39

B5 — DPX_TX_B5_26

B8 — DPX_TX_B8

B12/B17 — DPX_TX_B12

B13/B20 — DPX_TX_B13_B20

B28A — DPX_TX_B28A

B28B — DPX_TX_B28B

HB(B7/B38/B40/B41) — TX_HB

DNI

U1600
SKY77661

RFFE1_CLK
RFFE1_DATA

+1V8_VREG_L5

Rev.B 3/15

VBAT

WTR1_TX_DA3 — B7_38_40_41

WTR1_TX_DA4 — B1_2_3_4_39_66
GSM_HB
TDS 34/39

WTR1_TX_DA2 — GSM_LB

WTR0_TX_DA2 — B5_8_20_28

WTR0_TX_DA1 — B12_13_17

RC filter for RSE evaluation

+VPA0

QFE2101 for MMPA_1, HMPA

+VPWR

Rev.A

U1601
QFE2101

PA THERM_0

LG Electronics

LGM700TV

PDM NUMBER

1.0

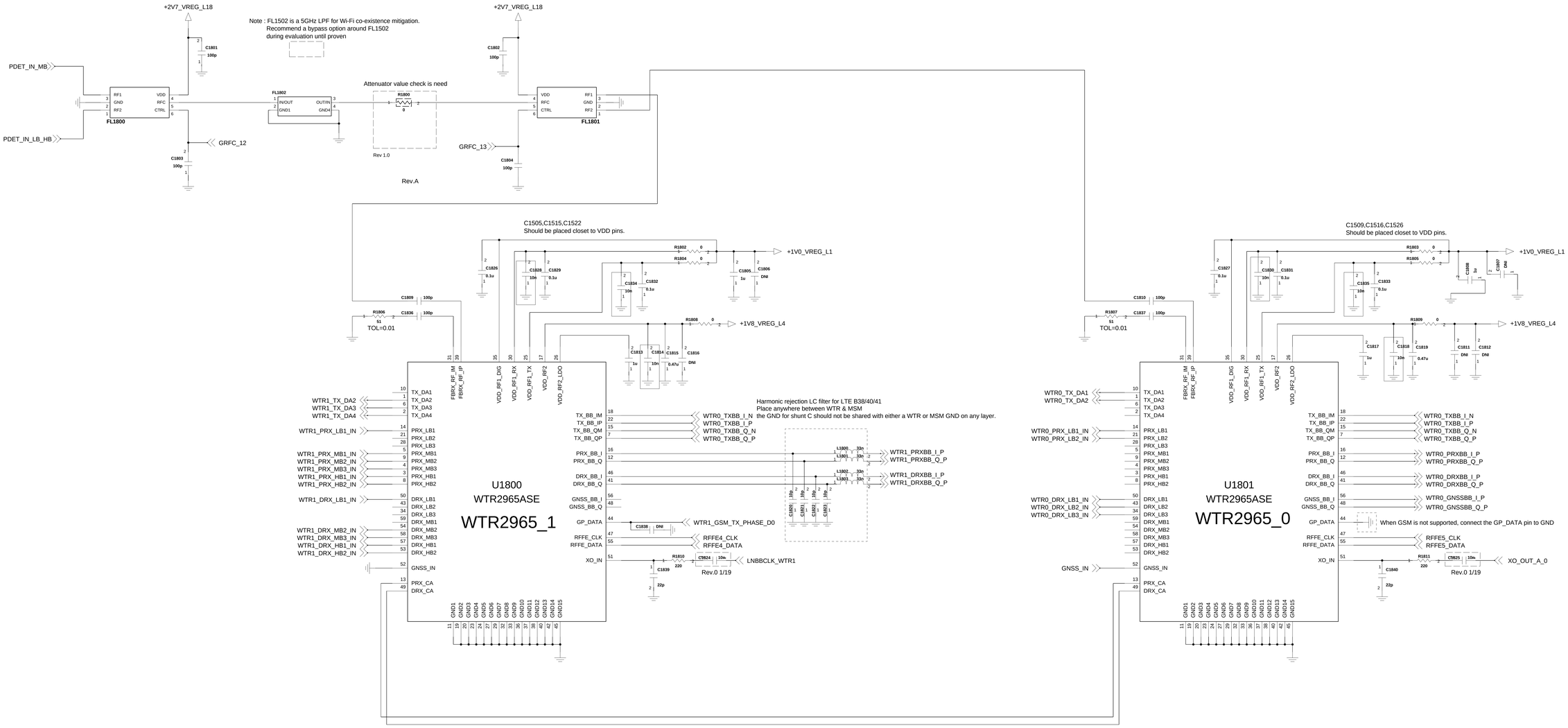
A2

User Name

Drawing Date

LGE Internal Use Only

1-1-6-3-WTR2965_CA_w/o LB3

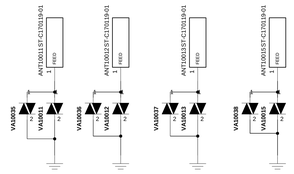


LGE Internal Use Only

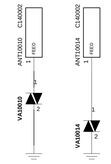
LG Electronics	
TITLE	LGM700TV
SIZE A2	DWG NO PDM NUMBER
REV	1.0
DRAWN BY: User Name	SHEET OF
Date	Drawing Date

<Inner Frame contact>

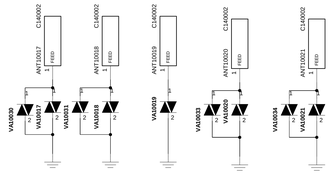
Upper contact 1.9T (EAG65289801)



Upper contact 1.2T (EAG64973401)



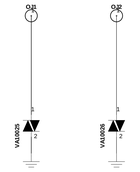
Lower contact 1.2T (EAG64973401)



Middle contact 1.2T (EAG64973401)

< Boss Hole >

1.6T (EAG64691401)



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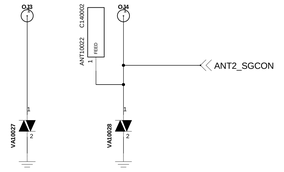

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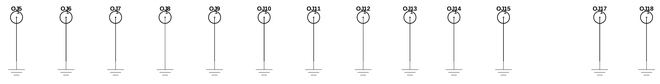
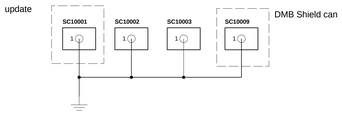


< Shield Can>

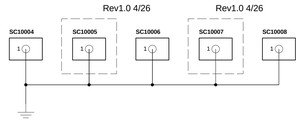
TOP shield can

update



BOT shield can

Rev1.0 4/26 Rev1.0 4/26



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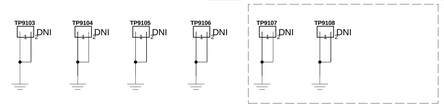


Rev1.0 4/25

< Electric shock Protection for ESD >

Add to Test Point (DNI Varistor at Upper/Lower contact)

< PID >

< DUMMY_PAD>

LGE Internal Use Only

LG Electronics

TITLE: LGM700TV		
SIZE: A2	DWG NO: PDM NUMBER	REV: 1.0
DRAWN BY: User Name	SHEET: of	Date: Drawing Date

< 2-1_MSM8940_Control > Rev_0.1

CCDS CARD Information	
Release Date	1 Oct. 2015
Based on Reference Schematic	Rev. A
80-P2468-41_MSM8937_+_PM8937_+_PMI8952_Reference_schematic	

LPDDR3

LCD

MAIN CAM

VT CAM

USB(HS)

eMMC

SD CARD

WTR

U2100
MSM8940-9-AA

[JTAG]

<MODEL INDEX>

<TOP> <BOT>

M700
M700n
M700Y
M700F
M700AR
M700H
M700Z
M700DSK
M700DSN
M700A
M700DY
M700TV
M700DSF
MX600L
MS600S
MX600K
M700V

LG Electronics

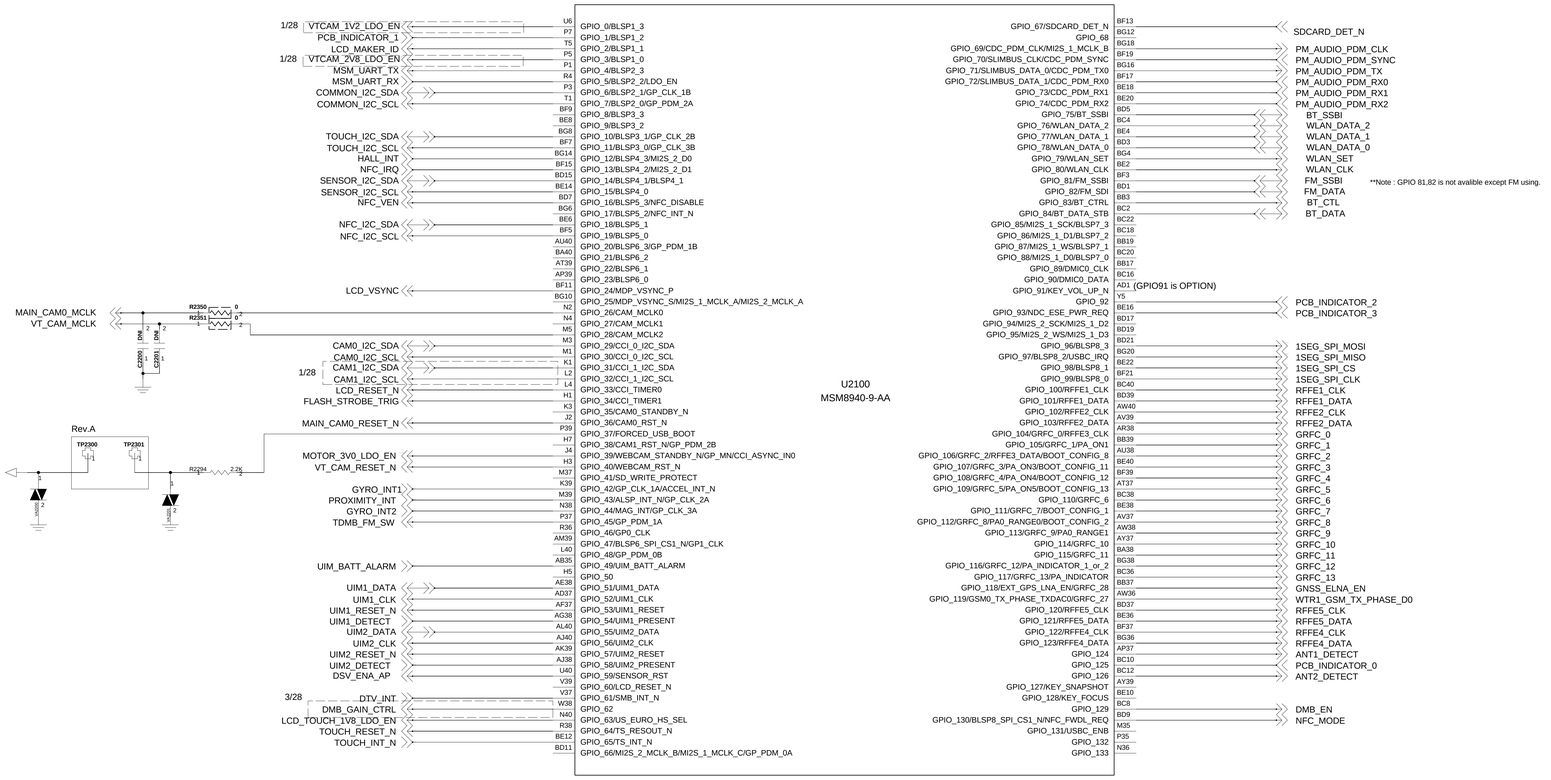
TITLE: LGM700TV

SIZE: A2 | DWG NO: PDM NUMBER | REV: 1.0

Drawn BY: User Name | SHEET: of | Date: Drawing Date

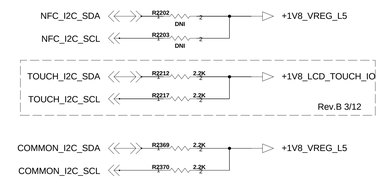
LGE Internal Use Only

< MSM8940_GPIO > Rev_0.1

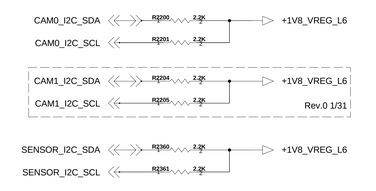


I2C Map

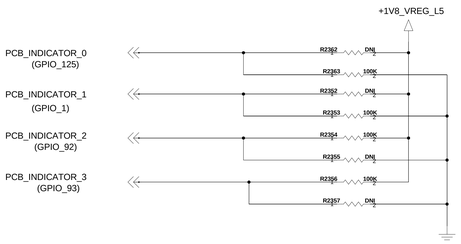
NFC_I2C_SDA NFC_I2C_SCL	CAM0_I2C_SDA CAM0_I2C_SCL	CAM1_I2C_SDA CAM1_I2C_SCL	SENSOR_I2C_SDA SENSOR_I2C_SCL	TOUCH_I2C_SDA TOUCH_I2C_SCL	COMMON_I2C_SDA COMMON_I2C_SCL
NFC	Main camera	VT camera (Option)	Accel/Compass Prox/Ambient	TOUCH	DSV



L5 : Default On / L6 : Defualt Off



PCB INDICATOR



Model	Band	GPIO_SUM	GPIO_93	GPIO_92	GPIO_1	GPIO_125	FM	SIM	DTV	NFC	Memory
M700	1/3/7/20	0	0	0	0	0	O	DUAL	X	X	2G/16G
M700n	1/3/7/8/20/28/38	1	0	0	0	1	O	SINGLE	X	O	3G/32G
M700Y	1/3/7/8/20/40	2	0	0	1	0	O	SINGLE	X	X	3G/32G
-	-	3	0	0	1	1	O	-	-	-	-
M700F	2/3/4/5/7/8/28	4	0	1	0	0	O	SINGLE	X	X	3G/32G
M700AR	2/3/4/5/7/8/28	5	0	1	0	1	O	SINGLE	X	X	3G/32G
M700H	2/4/66/5/17	6	0	1	1	0	O	SINGLE	X	X	3G/32G
M700Z	1/3/7/8/28/40	7	0	1	1	1	O	SINGLE	X	X	3G/32G
M700DSK	1/3/5/7/8/28/38 /40/41	8	1	0	0	0	O	DUAL	X	X	3G/32G
M700DSN	1/3/7/8/40	9	1	0	0	1	O	DUAL	X	0	3G/32G
M700A	1/3/7/20	10	1	0	1	0	O	DUAL	X	X	3G/32G
M700DY	1/3/7/20	11	1	0	1	1	O	DUAL	X	X	3G/32G
M700TV	3/7/28	12	1	1	0	0	O	DUAL	0	X	3G/32G
M700DSF	2/3/7/28	13	1	1	0	1	O	DUAL	X	X	3G/32G
		14	1	1	1	0	O	DUAL			
M700V		15	1	1	1	1	X	SINGLE	X	X	2G/16G

Config GPIO's

GPIO_37	FORCED_USB_BOOT
GPIO_3	BOOT_CONFIG_0
GPIO_88	BOOT_CONFIG_3
GPIO_111	BOOT_CONFIG_1
GPIO_112	BOOT_CONFIG_2
GPIO_113	BOOT_CONFIG_4
GPIO_114	BOOT_CONFIG_6
GPIO_106	BOOT_CONFIG_8
GPIO_107	BOOT_CONFIG_11
GPIO_108	BOOT_CONFIG_12
GPIO_109	BOOT_CONFIG_13

BOOT_CONFIG [3:1]	BOOT OPTIONS
0b000	SDC1->SDC2->USB2.0
0b001	SDC2->SDC1->USB2.0
0b010	SDC1->USB2.0
0b011	USB2.0

Default Boot config (0b000) is eMMC on SDC1

LGE Internal Use Only

LG Electronics

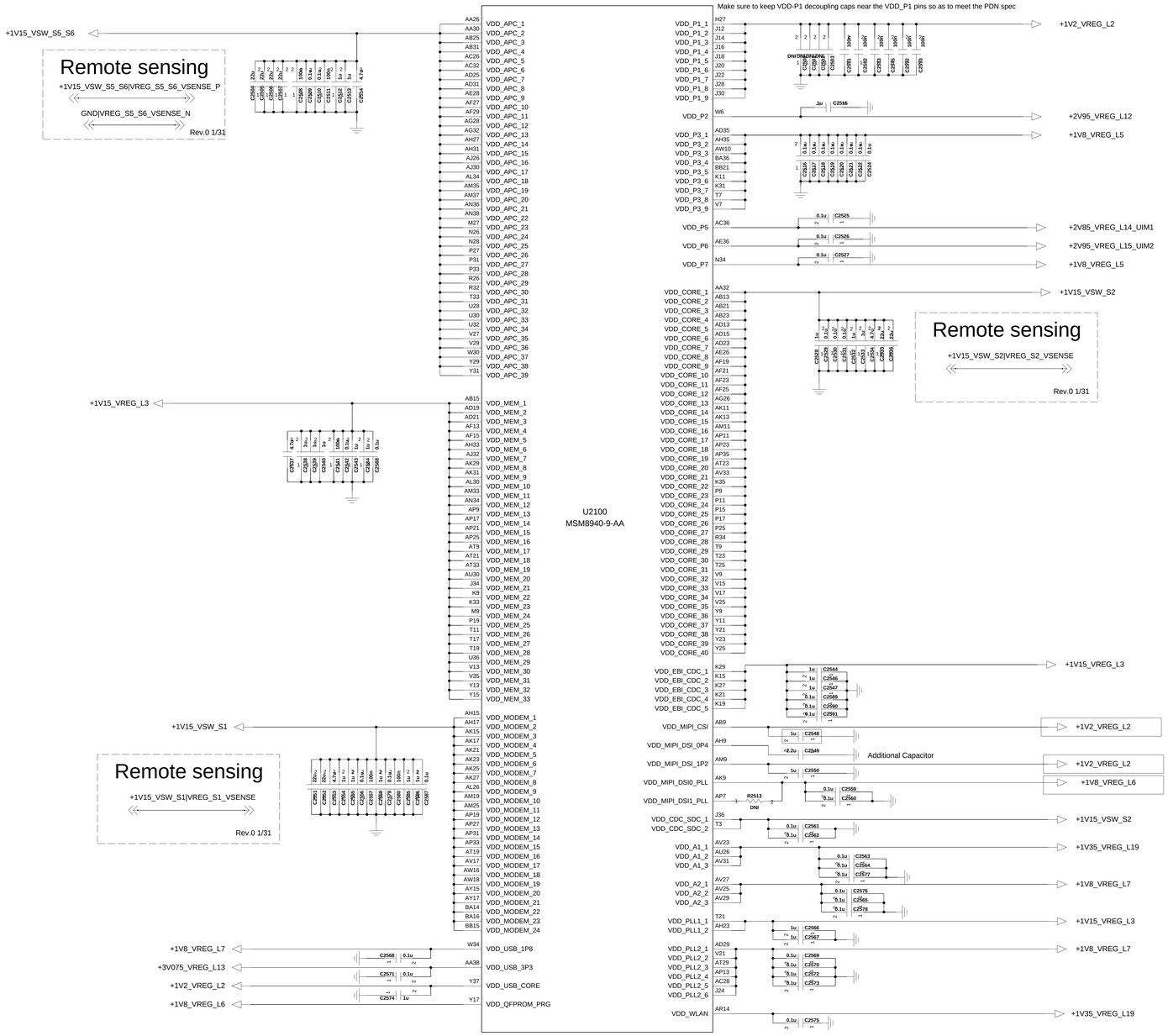
TITLE: LGM700TV

SIZE: A2 | DWG NO: PDM NUMBER | REV: 1.0

DRAWN BY: User Name | SHEET: of | Date: Drawing Date

< 2-1-12-1-3_MSM8940_Power > Rev_0.1

CCDS CARD Information	
Release Date	1 Oct. 2015
Based on Reference Schematic	Rev. A
80-P2468-41_MSM8937_+_PM8937_+_PMI8952_Reference_schematic	

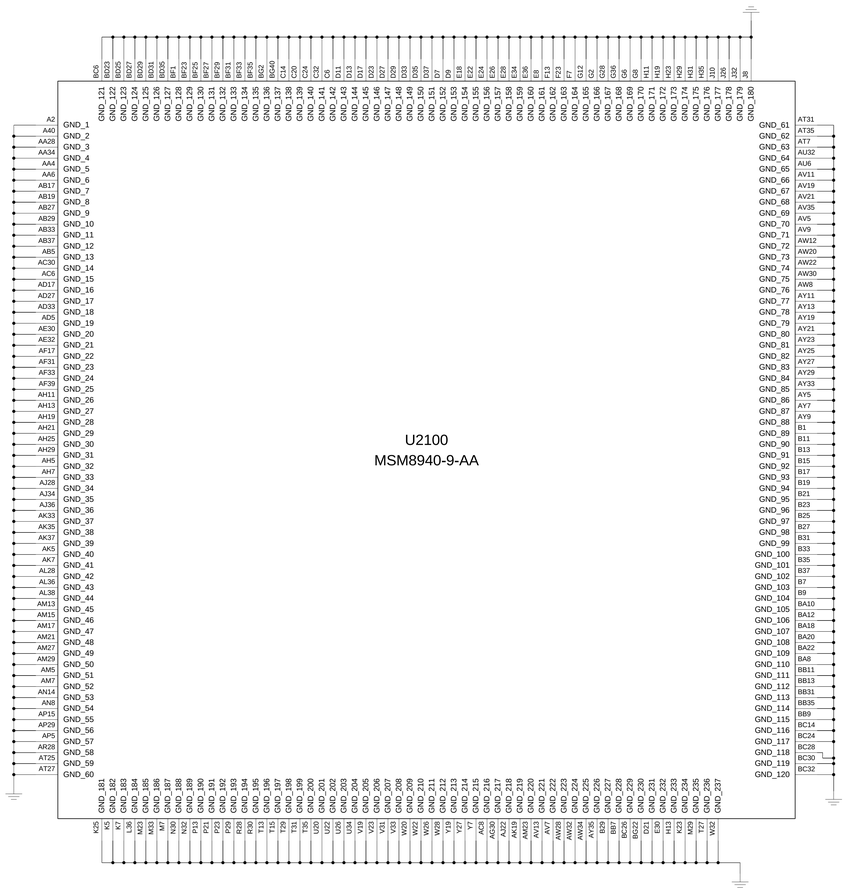


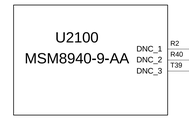
LGE Internal Use Only

LG Electronics	
TITLE	LGM700TV
SIZE: A2	DWG NO: PDM NUMBER
REV: 1.0	
DRAWN BY: User Name	SHEET: of
Date: Drawing Date	

< 2-1-12-1-4_MSM8940_GND_NC > Rev_0.1

CCDS CARD Information	
Release Date	1 Oct. 2015
Based on Reference Schematic	Rev. A
80-P2468-41_MSM8937_+_PM8937_+_PMI8952_Reference_schematic	



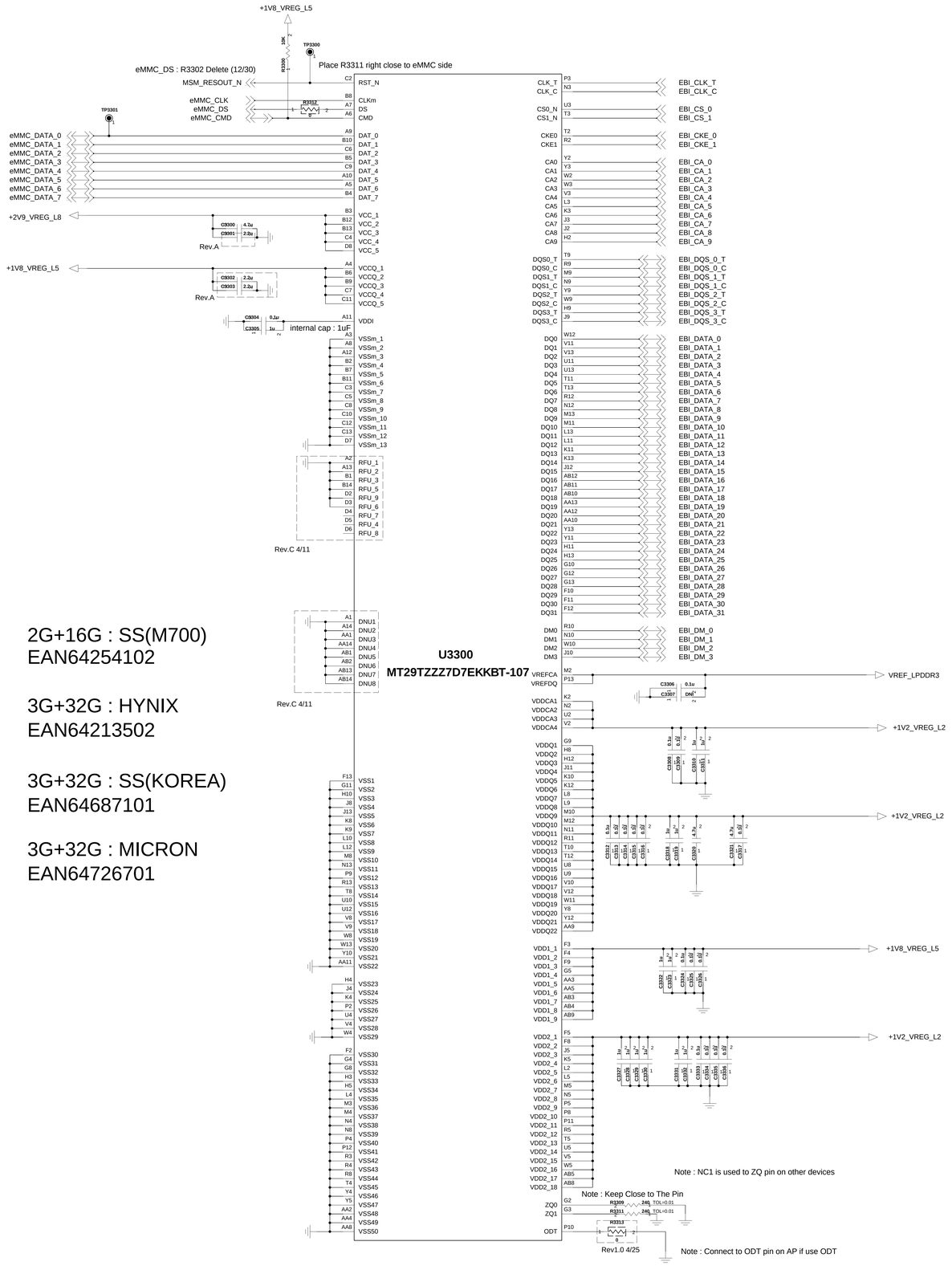


LGE Internal Use Only

LG Electronics	
TITLE	LGM700TV
SIZE	A2
DWG NO	PDM NUMBER
REV	1.0
Drawn BY	User Name
SHEET	of
Date	Drawing Date

< 3_3_2_4_1_MCP_16GB eMMC v5.1+16Gb LPDDR3 >

REV_0.4



LG Electronics	
TITLE	LGM700TV
SIZE A2	DWG NO PDM NUMBER
REV 1.0	
DRAWN BY User Name	SHEET of
Date Drawing Date	

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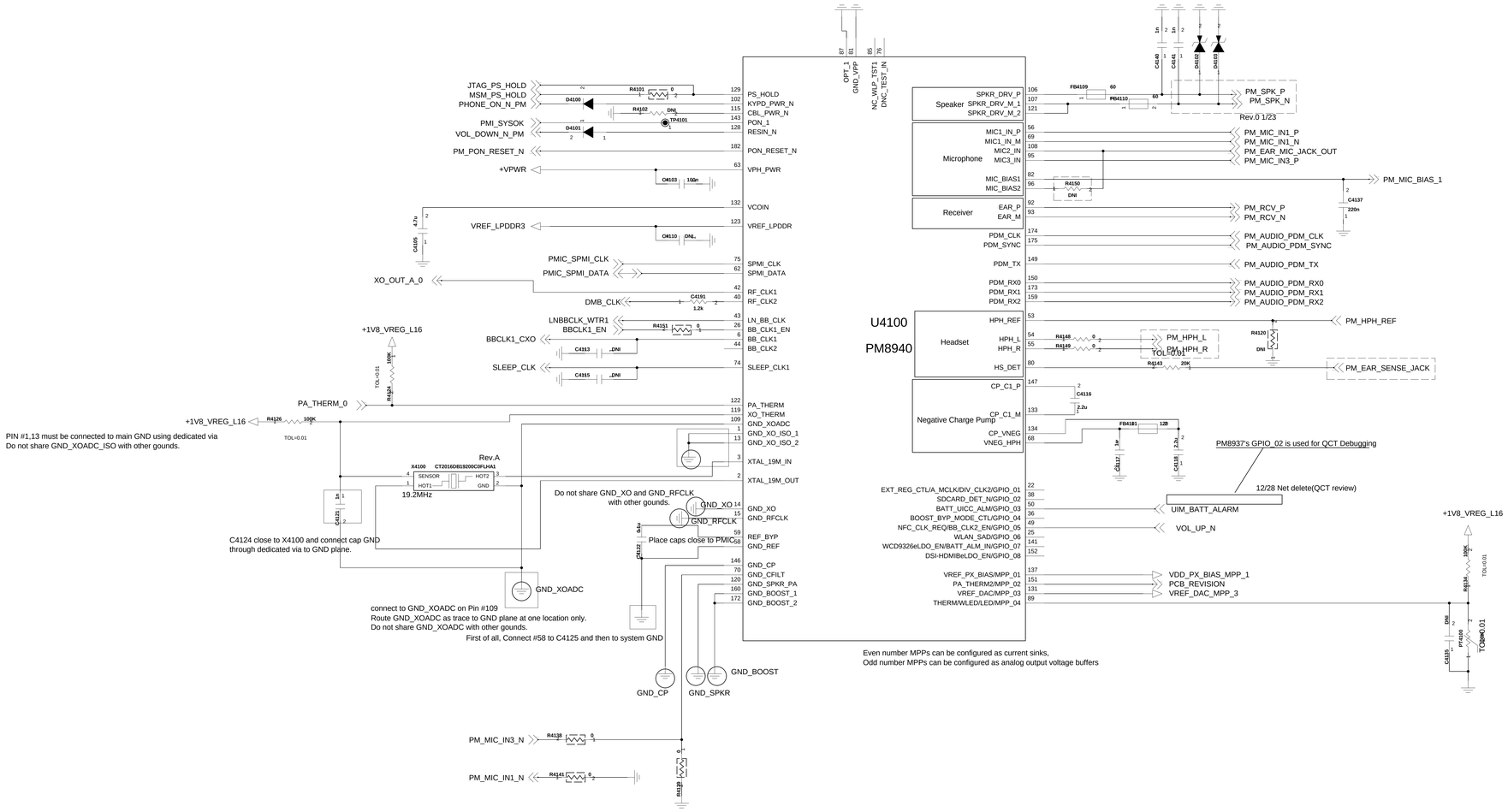
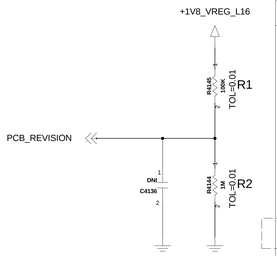


PCB REVISION



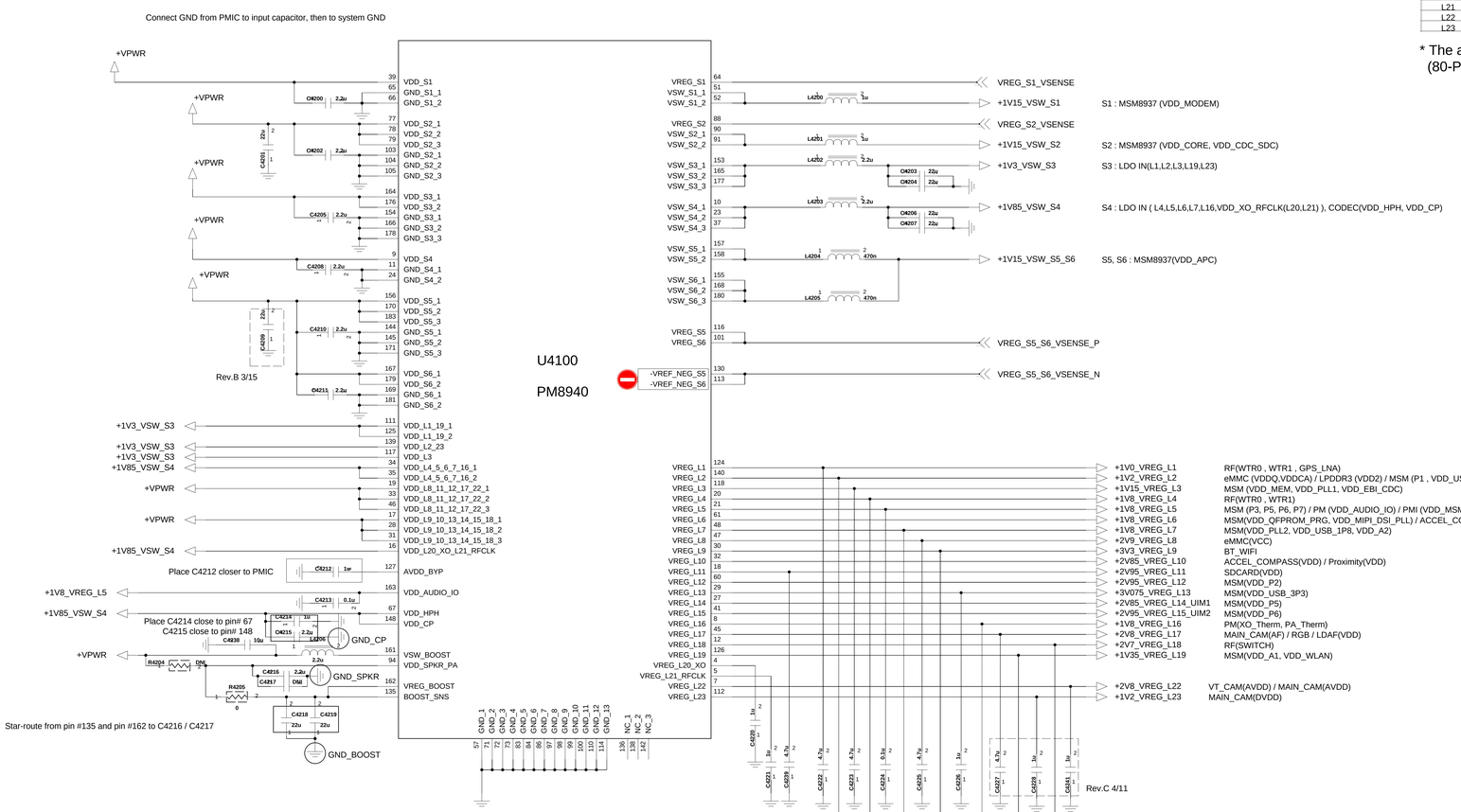
REV	R1	R2	Voltage
0	20K	100K	1.500
02	100K	20K	0.300
A	100K	30K	0.415
B	100K	47K	0.576
C	100K	68K	0.729
D	100K	100K	0.900
1.0	100K	1000K	1.575
1.1	DNI	100K	0.000
MKT	100K	200K	1.2

LGE Internal Use Only

LG Electronics

TITLE	LGM700TV	
SIZE A2	DWG NO PDM NUMBER	REV 1.0
Drawn BY User Name	SHEET of	Date Drawing Date

< PM8940_Power>



Output Power Management

Function	Circuit Type	Default Voltage	Specified Range	Programmable Range	Rated Current	Default On
S1	ULT-SMPS	1.225V	0.900 - 1.350 V	0.375 - 1.562 V	2000mA	Y
S2	ULT-SMPS	1.225V	0.550 - 1.350 V	0.375 - 1.562 V	3000mA	Y
S3	HF-SMPS	1.288V	1.200 - 1.412 V	0.375 - 1.562 V	2700mA	Y
S4	ULT-SMPS	2.050V	1.800 - 2.050 V	1.550 - 3.126 V	2500mA	Y
S5	FT-SMPS	1.225V	1.050 - 1.350 V	0.350 - 1.355 V	3000mA	Y
S6	FT-SMPS	1.225V	1.050 - 1.350 V	0.350 - 1.355 V	3000mA	Y
L1	NMOS LDO	1.000V	1.000V	0.375 - 1.537 V	1200mA	
L2	NMOS LDO	1.200V	1.200V	0.375 - 1.537 V	1200mA	Y
L3	NMOS LDO	1.225V	0.750 - 1.350 V	0.375 - 1.537 V	1200mA	Y
L4	PMOS LDO	1.800V	1.800V	1.750 - 3.337 V	450mA	
L5	PMOS LDO	1.800V	1.800V	1.750 - 3.337 V	300mA	Y
L6	PMOS LDO	1.800V	1.800V	1.750 - 3.337 V	300mA	N
L7	PMOS LDO	1.800V	1.800V	1.750 - 3.337 V	150mA	Y
L8	PMOS LDO	2.900V	2.900V	1.750 - 3.337 V	600mA	Y
L9	PMOS LDO	3.3V or 3.0V	3.000 - 3.300 V	1.750 - 3.337 V	600mA	
L10	PMOS LDO	2.850V	2.800V	1.750 - 3.337 V	150mA	Y
L11	PMOS LDO	2.950V	2.950V	1.750 - 3.337 V	800mA	Y
L12	PMOS LDO	2.950V	1.80V or 2.95V	1.750 - 3.337 V	150mA	Y
L13	PMOS LDO	3.075V	3.075 V	1.750 - 3.337 V	50mA	Y
L14	PMOS LDO	1.800V	1.80V or 3.30V	1.750 - 3.337 V	50mA	
L15	PMOS LDO	1.800V	1.80V or 3.30V	1.750 - 3.337 V	50mA	
L16	PMOS LDO	1.800V	1.800V	1.750 - 3.337 V	5mA	
L17	PMOS LDO	2.850V	2.850V	1.750 - 3.337 V	600mA	
L18	PMOS LDO	2.700V	2.700V	1.750 - 3.337 V	150mA	
L19	NMOS LDO	1.350V	1.350V	0.375 - 1.537 V	1200mA	
L20	Low-noise LDO	1.800V	1.800V	1.750 - 3.337 V	5mA	Y
L21	Low-noise LDO	1.800V	1.800V	1.750 - 3.337 V	5mA	Y
L22	PMOS LDO	2.800V	2.800V	1.750 - 3.337 V	300mA	
L23	NMOS LDO	1.200V	1.200V	0.375 - 1.537 V	300mA	

* The above table is based on PM8937.
(80-P2564-1).

PSEUDO CAPLESS LDOs
- L4*, L6, L8*, L9*, L10, L11*, L12, L14, L15, L17*, L18, L22, L23
L4*, L9*, L11*, L17*, still need validation as Pseudo-capless.
L5, L7, L13, L16 have internal PMIC loads and require local CAPs

LGE Internal Use Only

LG Electronics

TITLE: LGM700TV

SIZE: A2 | DWG NO: PDM NUMBER | REV: 1.0

DRAWN BY: User Name | SHEET: of | Date: Drawing Date

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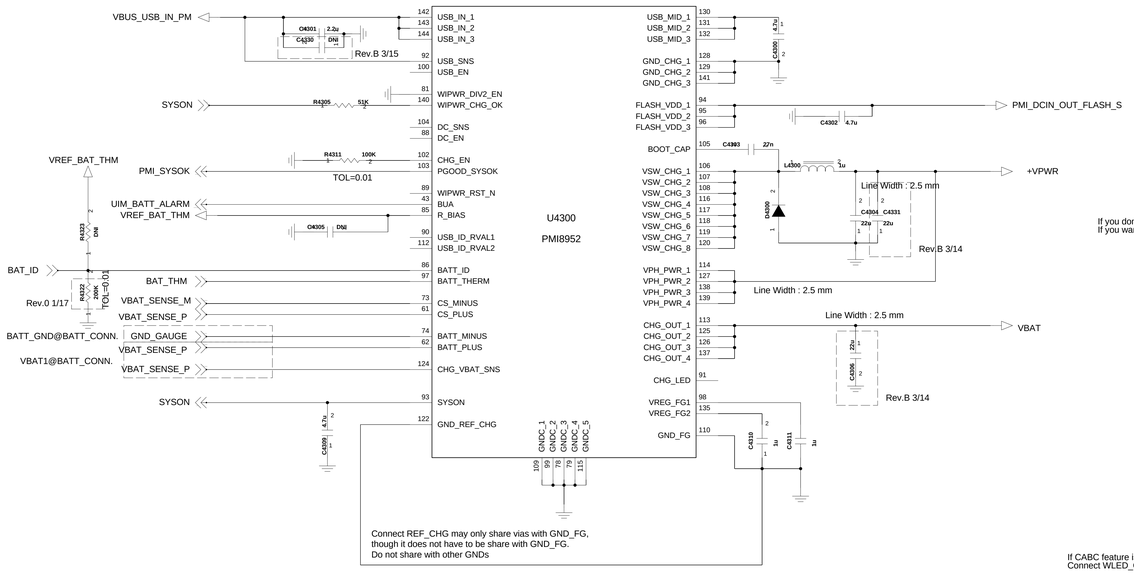

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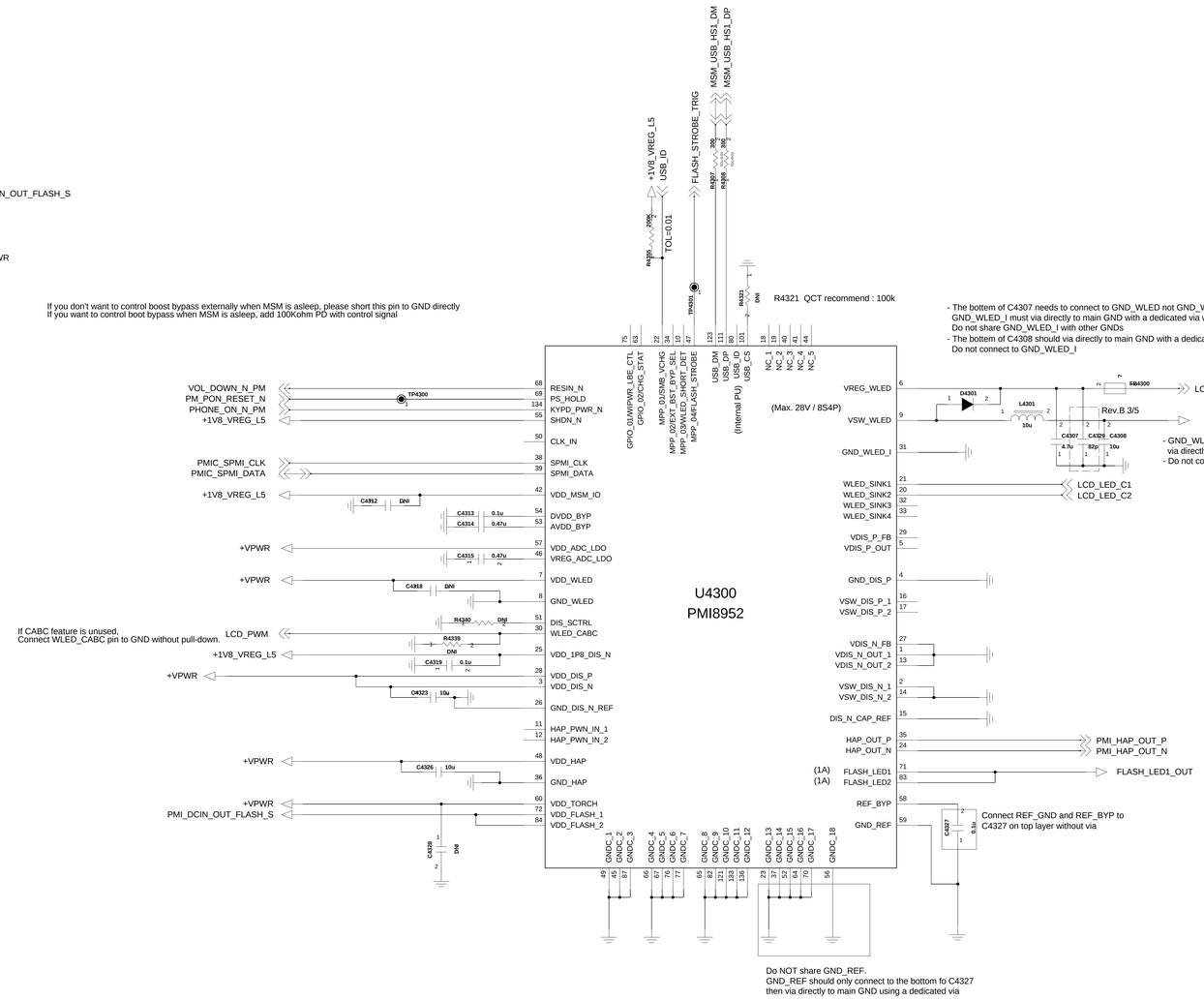


LGE Internal Use Only

LG Electronics

TITLE: LGM700TV

SIZE: A2 | DWG NO: PDM NUMBER | REV: 1.0

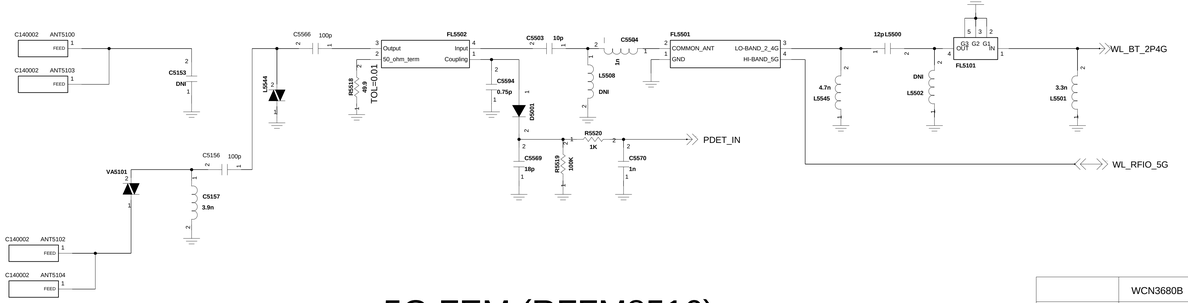
Drawn BY: User Name | SHEET: of | Date: Drawing Date

< 5-1-1-17_BT_Wi-Fi_WCN3660B > Rev_1.0

ANT (BT/WIFI)

Release Date	2015.11.12
Reference Schematic	from LGV520
80-WL005-43 WCN3660-A-B, WCN3680-B REFERENCE SCHEMATIC.pdf	

BT/WiFi RF Filter

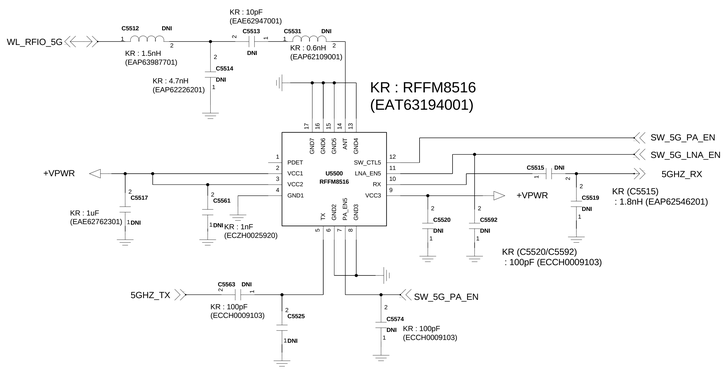


B41 REJECTION

5G FEM (RFFM8516)

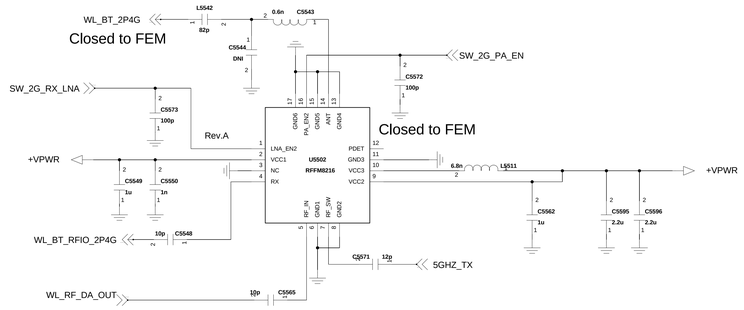
5G FEM(SPDT +5G PA + LNA)

		WCN3680B	WCN3615
from PMIC	RFCLK2_WLAN	NA _floating	WCN_TCXO_IN
to MSM	WCSS_XO	WLAN_XO	GND

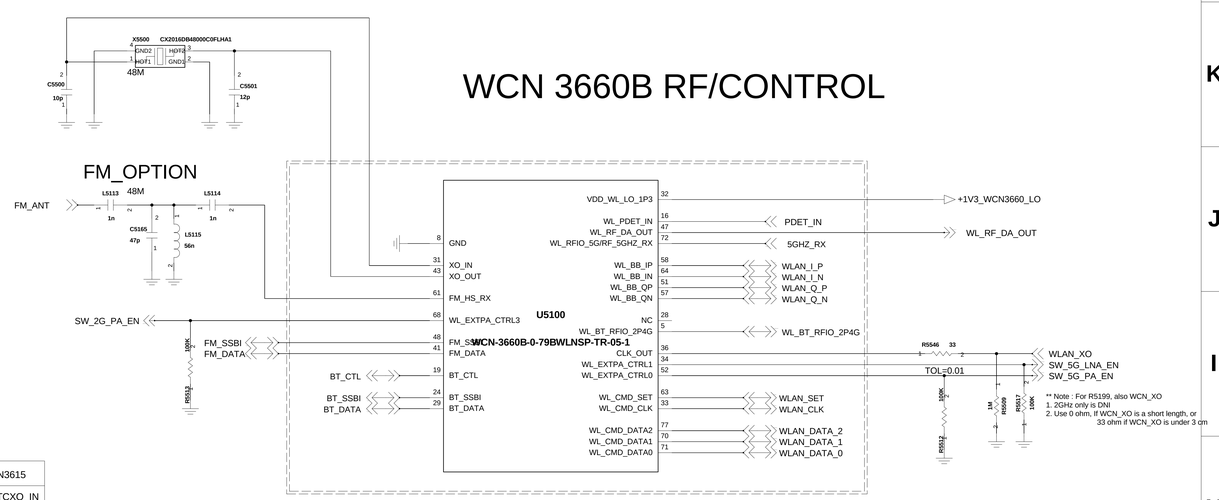


2G FEM (RFFM8216)

2G FEM(SP3T +2G PA + LNA)

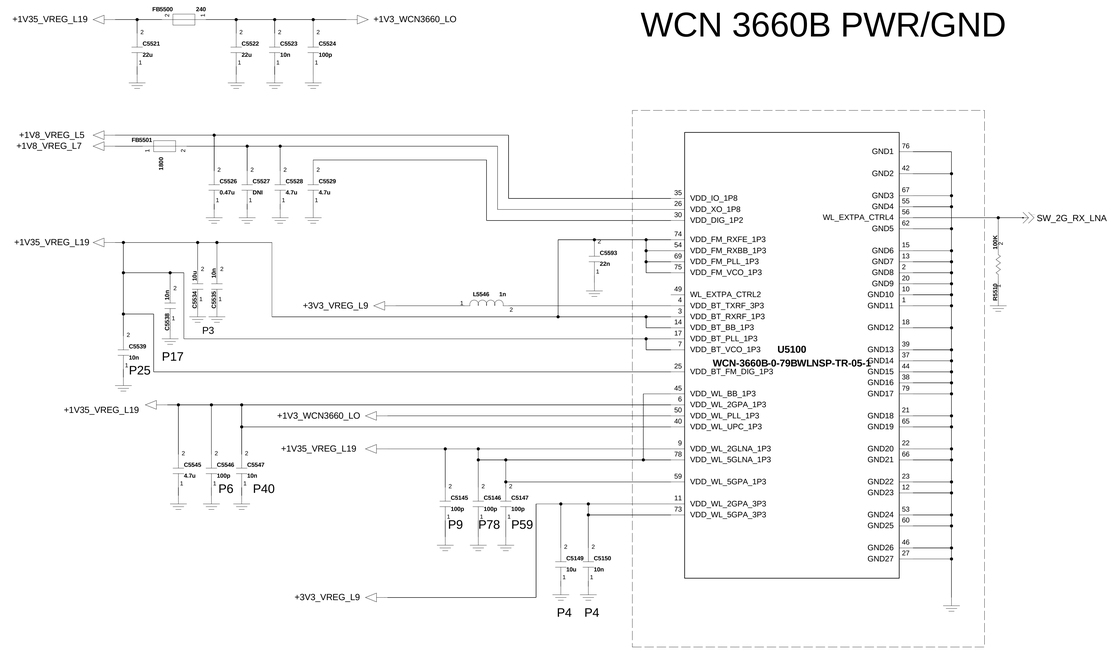


WCN 3660B RF/CONTROL



** Note : For R5199, also WCN_XO
1. 2GHz only is DNI
2. Use 0 ohm, if WCN_XO is a short length, or 33 ohm if WCN_XO is under 3 cm

WCN 3660B PWR/GND



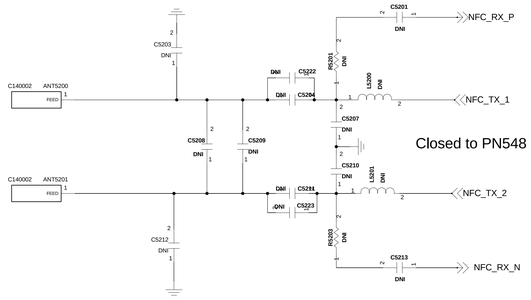
LGE Internal Use Only

LG Electronics	
TITLE	LGM700TV
SIZE	A2
DWG NO	PDM NUMBER
REV	1.0
DRAWN BY	User Name
SHEET	
OF	
Date	Drawing Date

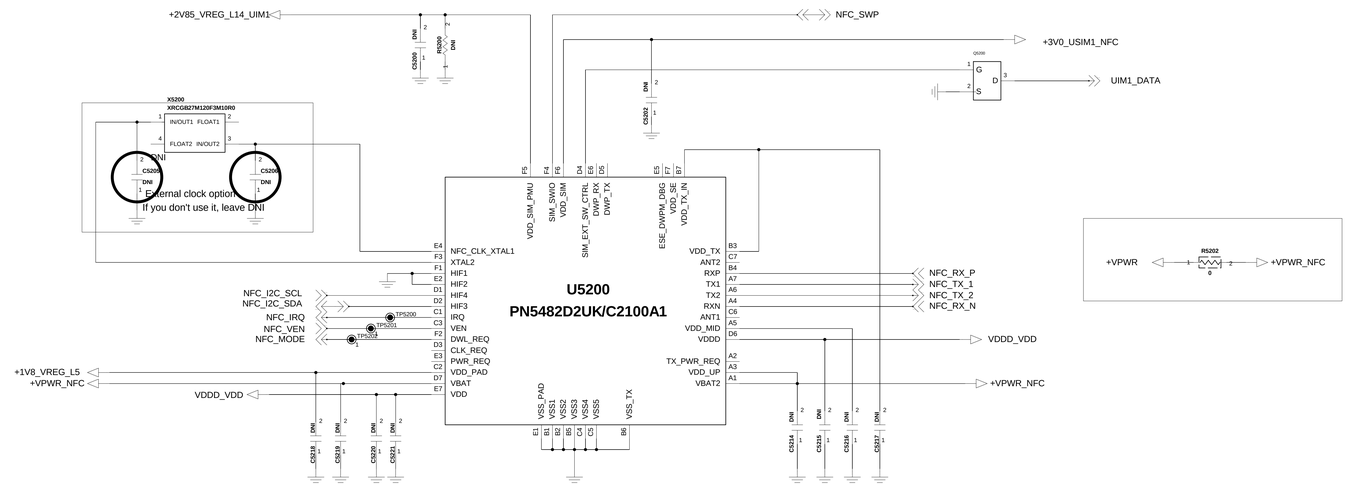
NFC

NFC Antenna

<NFC Option_Support SKU>
KOR(MX600L/S/K)
M700n
M700DSN

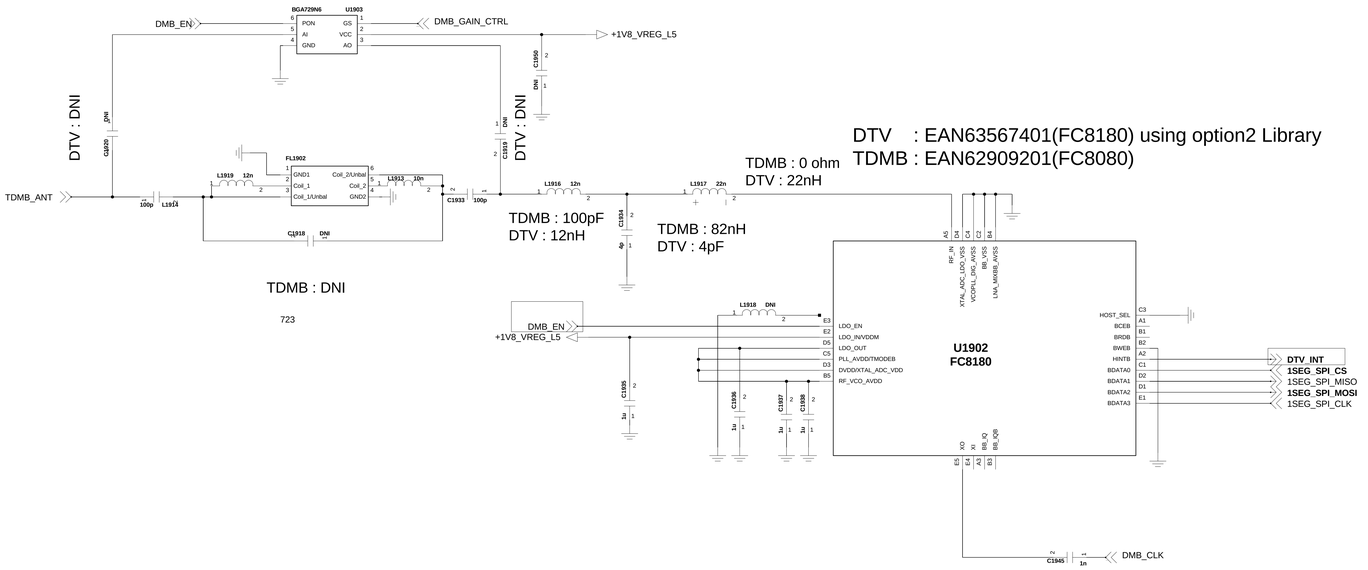


PN548 _main



TDMB_1SEG Swap circuit

<DTV/DMB Option>
KOR : DMB
M700TV : DTV
Others : DNI

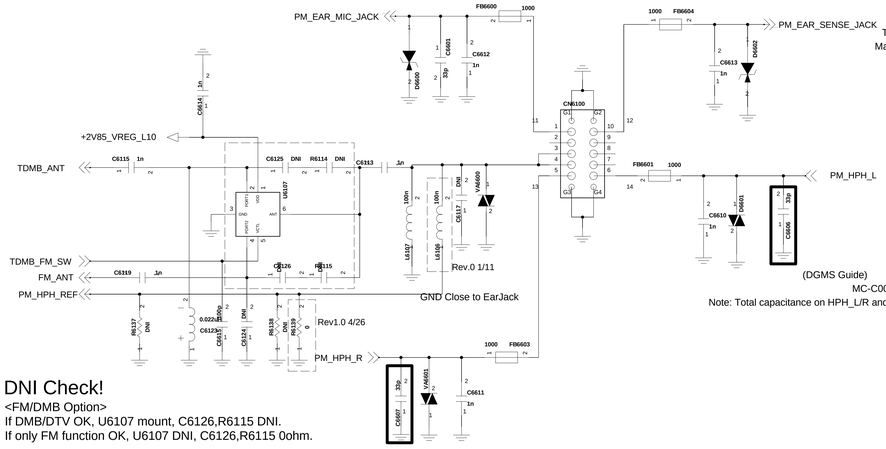


LGE Internal Use Only

LG Electronics	
TITLE	LGM700TV
SIZE A2	DWG NO PDM NUMBER
REV	1.0
DRAWN BY User Name	SHEET of
Date Drawing Date	

< 6-6-1_Earjack >

Ear jack_3.5pi with MBHC



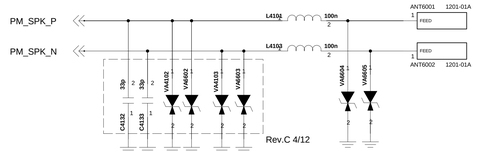
To improve crosstalk performance, you can make tank circuit. (L6698)
Make sure that you should add inductor which has under 0.3 ohm DCR,
and also care about total inductace for ANT performance.

FM_ANT Component NOTE : If you have FM / DMB ANT issue, please refer to ref schematic; 80-NK807. There is performace trade off between headset and FM / DMB radio antenna.

(DGMS Guide)
MC-C00075-18 : For ESD protection / tuning point
Note: Total capacitance on HPH_L/R and HS_MIC line SHOULD be under 1nF.

DNI Check!
<FM/DMB Option>
If DMB/DTV OK, U6107 mount, C6126,R6115 DNI.
If only FM function OK, U6107 DNI, C6126,R6115 0ohm.

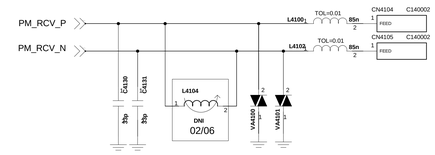
6-7-1_Speaker Rev_1.1



(DGMS Guide)
MC-C04773-8 : For ESD Protection / Tuning points
When USE) TVS devices's Working Voltage must be greater than the Path voltage should apply capacitor under 50pF value for ESD protection with d-class amp

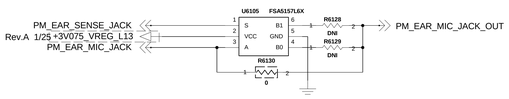
Note 1. If Speaker is located in Main antenna nearby, C6700, C6701 Shunt Cap. should be far from Main antenna.
In case of Speaker phone mode, it could affect a desense of TIS just like GSM850/GSM900/W900 band.

6-8-1_Receiver Rev_1.0



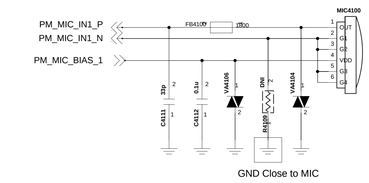
UART Debugger

Deleated Rev.02 1/11

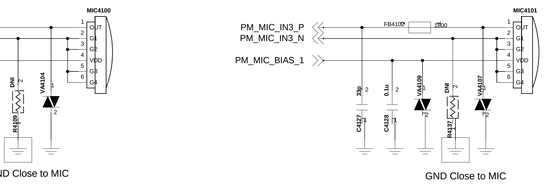


< 6-9-1_MIC > Rev_1.0

Main MIC



SUB MIC



LGE Internal Use Only

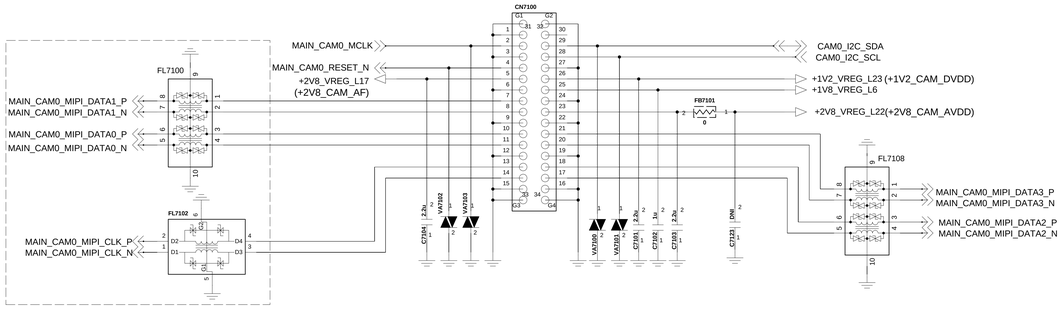
LG Electronics

TITLE: LGM700TV

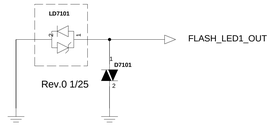
SIZE	DWG NO	REV
A2	PDM NUMBER	1.0

DRAWN BY	SHEET	Date
User Name	of	Drawing Date

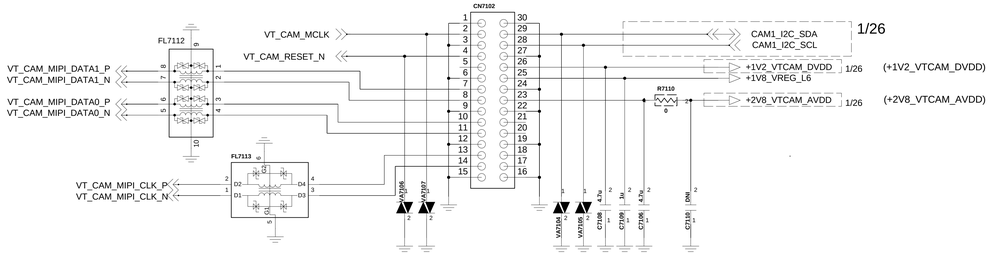
Main_Camera 13M (SK Hynix_Hi-1332)



FLASH

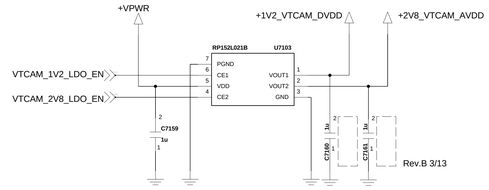


Front_Camera W5M (SK Hynix_Hi-553)

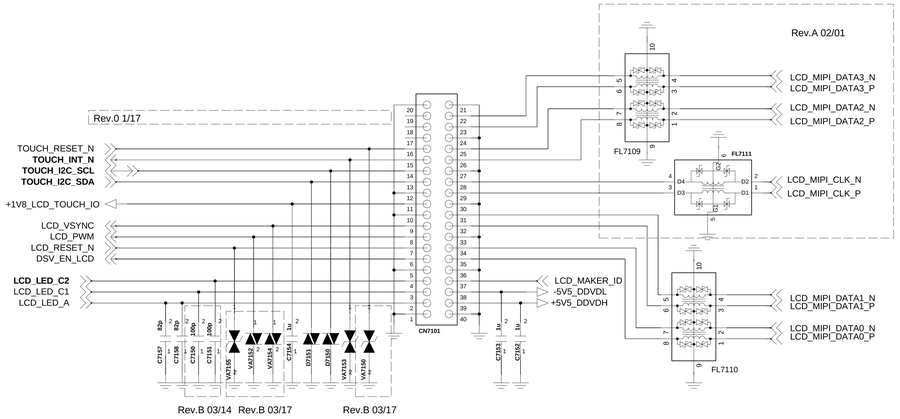


1/26

VTCAM DVDD/AVDD LDO

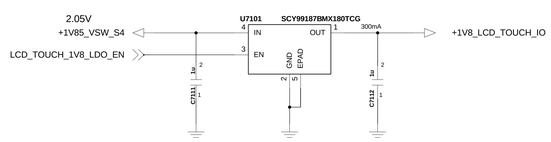


LCD Connector (LGD)



LCD Information	
Maker	LGD
Driver IC	SW49106
Connector	ENBY0035901

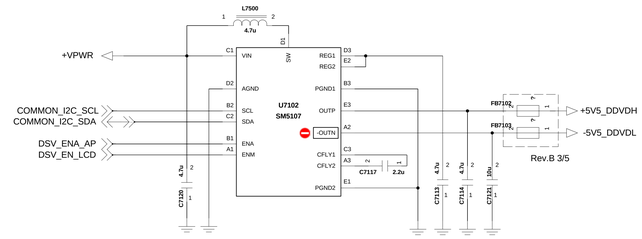
LCD/TOUCH IO LDO



3.3V(150mA) LCD POWER

Deleted Rev.02 1/17

<DSV_SM5107>



DGMS Guide
MC-C06162-1 : 1. Don't connect Positive of Tantal, TVS diode to Negative voltage if use
2. We recommend MLCC capacitor in this case

LGE Internal Use Only

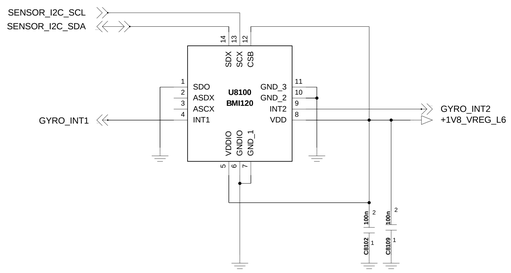
LG Electronics

TITLE: LGM700TV

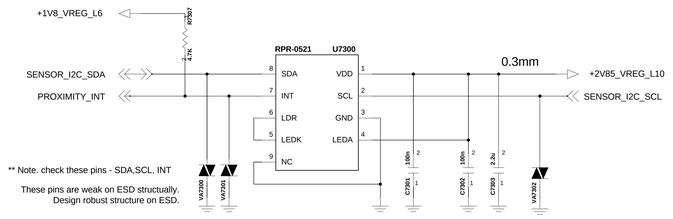
SIZE: A2 | DWG NO: PDM NUMBER | REV: 1.0

DRAWN BY: User Name | SHEET: of | Date: Drawing Date

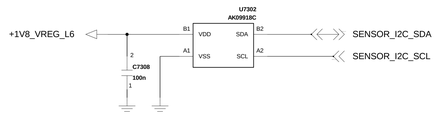
<Accel_Gyro_BMI120>



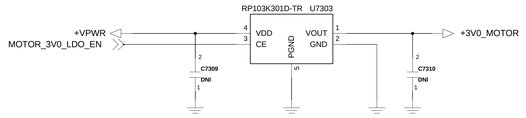
<8_4_3_3_Proximity_Ambient_RPR-0521>

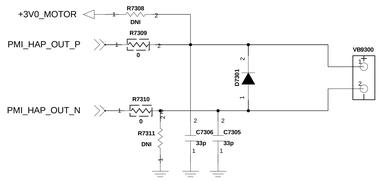


<Compass_AK09918C>

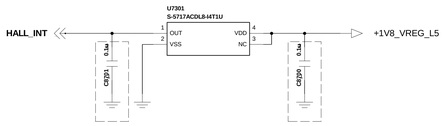


< MOTOR >





<8-7-1-1_Hall IC_S-5717ACDL8>

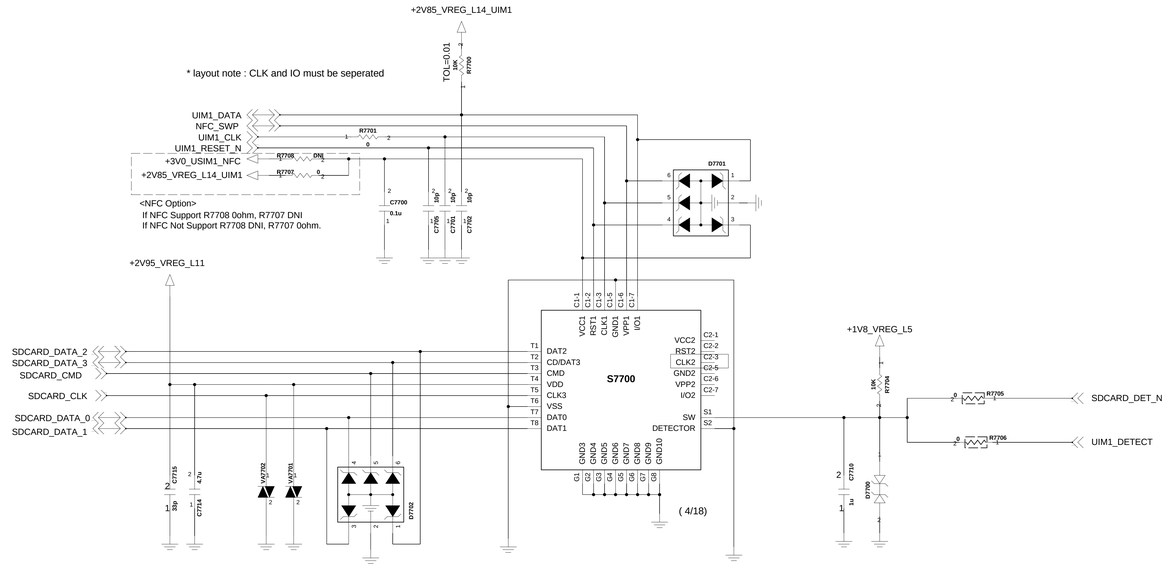


(DGMS Guide)
MC-C00058-12
Adjust the bypass capacitor value as necessary, according to signal line noise conditions

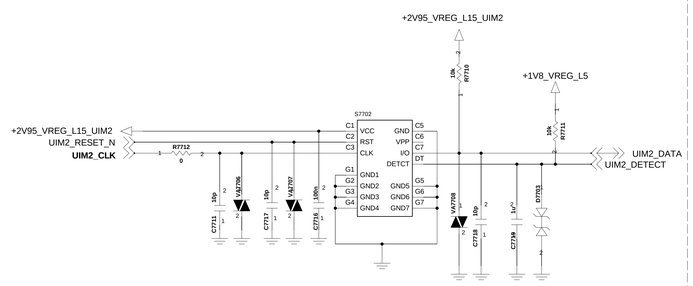
LGE Internal Use Only

LG Electronics	
TITLE	LGM700TV
SIZE	A2
DWG NO	PDM NUMBER
REV	1.0
DRAWN BY	User Name
SHEET	of
Date	Drawing Date

<Hybrid Nano SIM & SD Card Tray(3 in 2) >



<NanoSIM Socket(2nd SIM)>



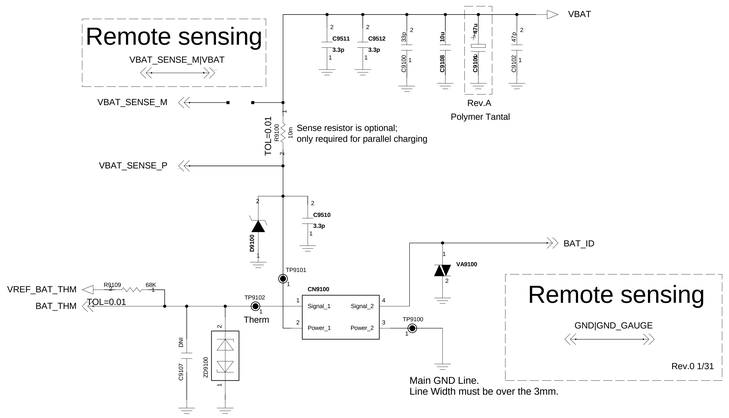
<Dual SIM SKU mount, other SKU SINGLE SIM>
M700DSK
M700DSN
M700A
M700
M700DY
M700TV
M700DSF

LGE Internal Use Only

LG Electronics	
TITLE	LGM700TV
SIZE	A2
DWG NO	PDM NUMBER
REV	1.0
DRAWN BY	User Name
SHEET	of
Date	Drawing Date

<9-1_Battery_Connector_4Pin>

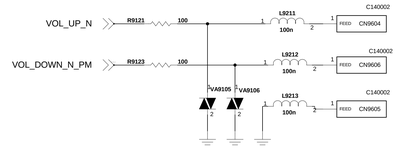
Routing Width 3mm



SIDE KEY CONNECTOR

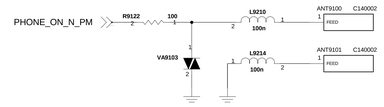
Check the height of the Pin.

1.2T (EAG64973401)

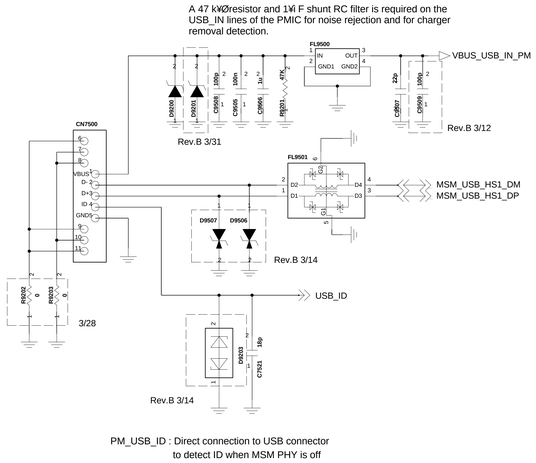


POWER KEY CONNECTOR

1.2T (EAG64651301)



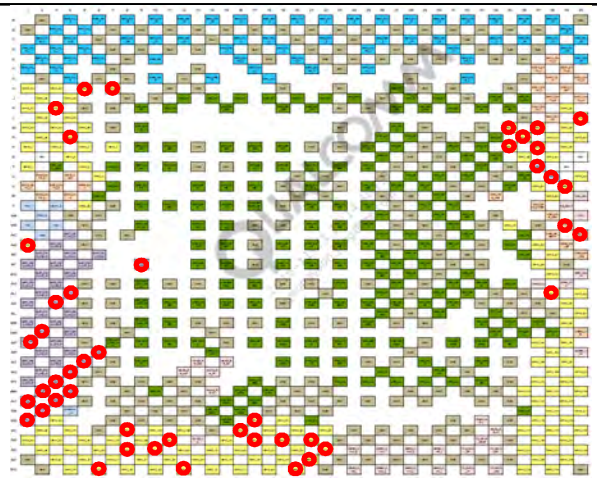
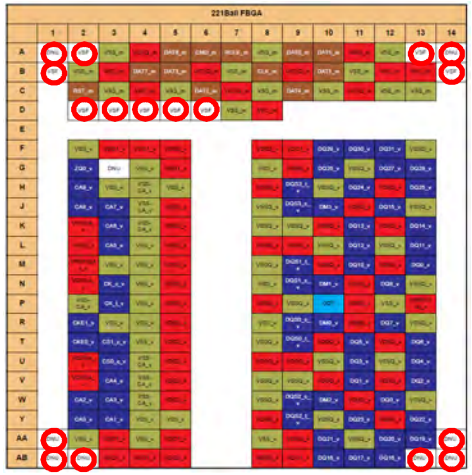
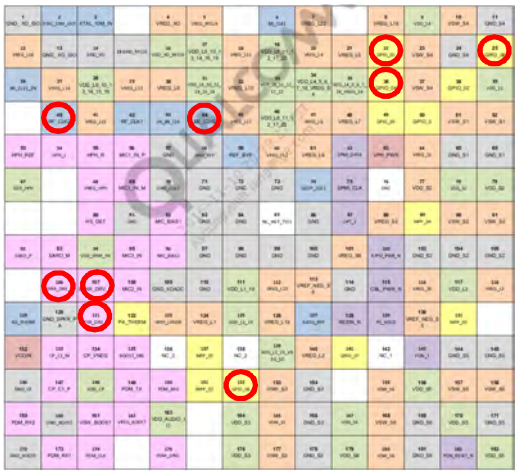
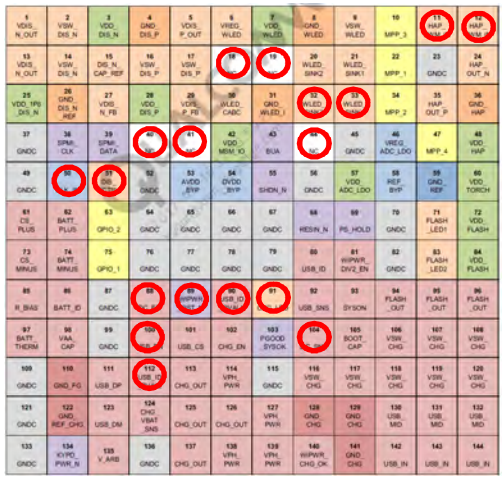
USB BtoB Connector

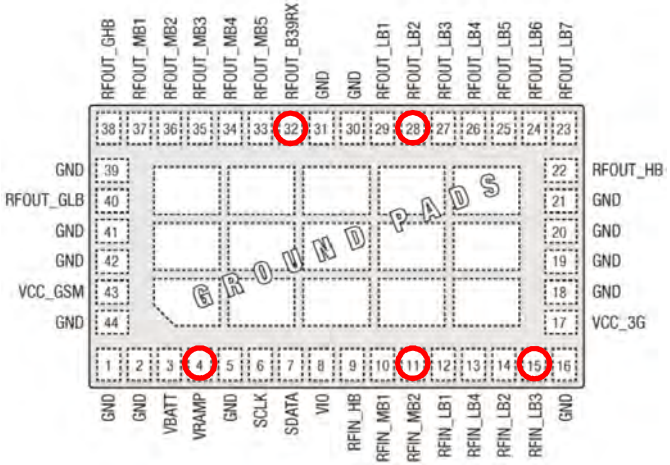
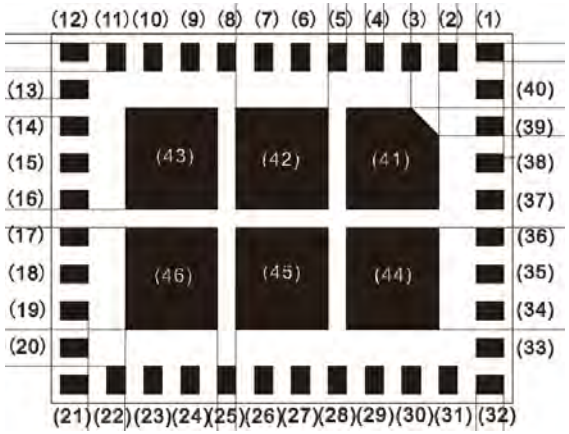
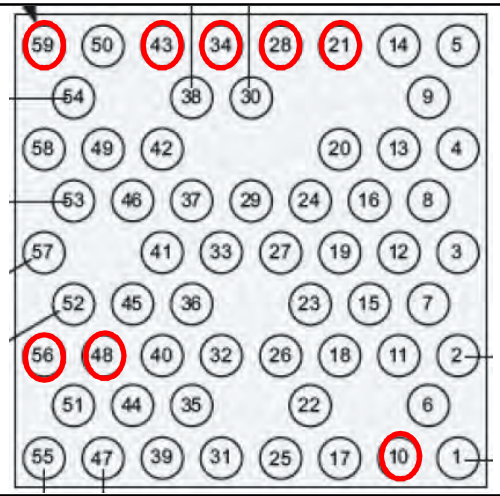
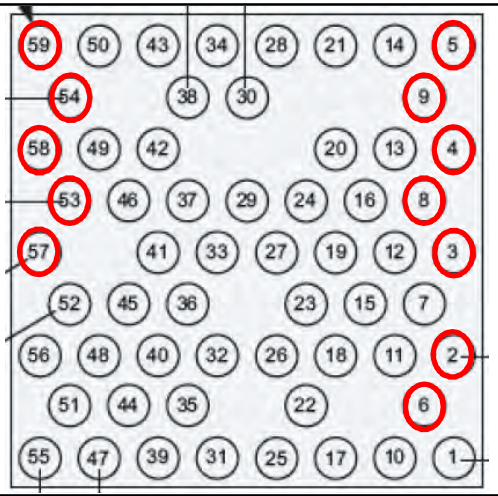


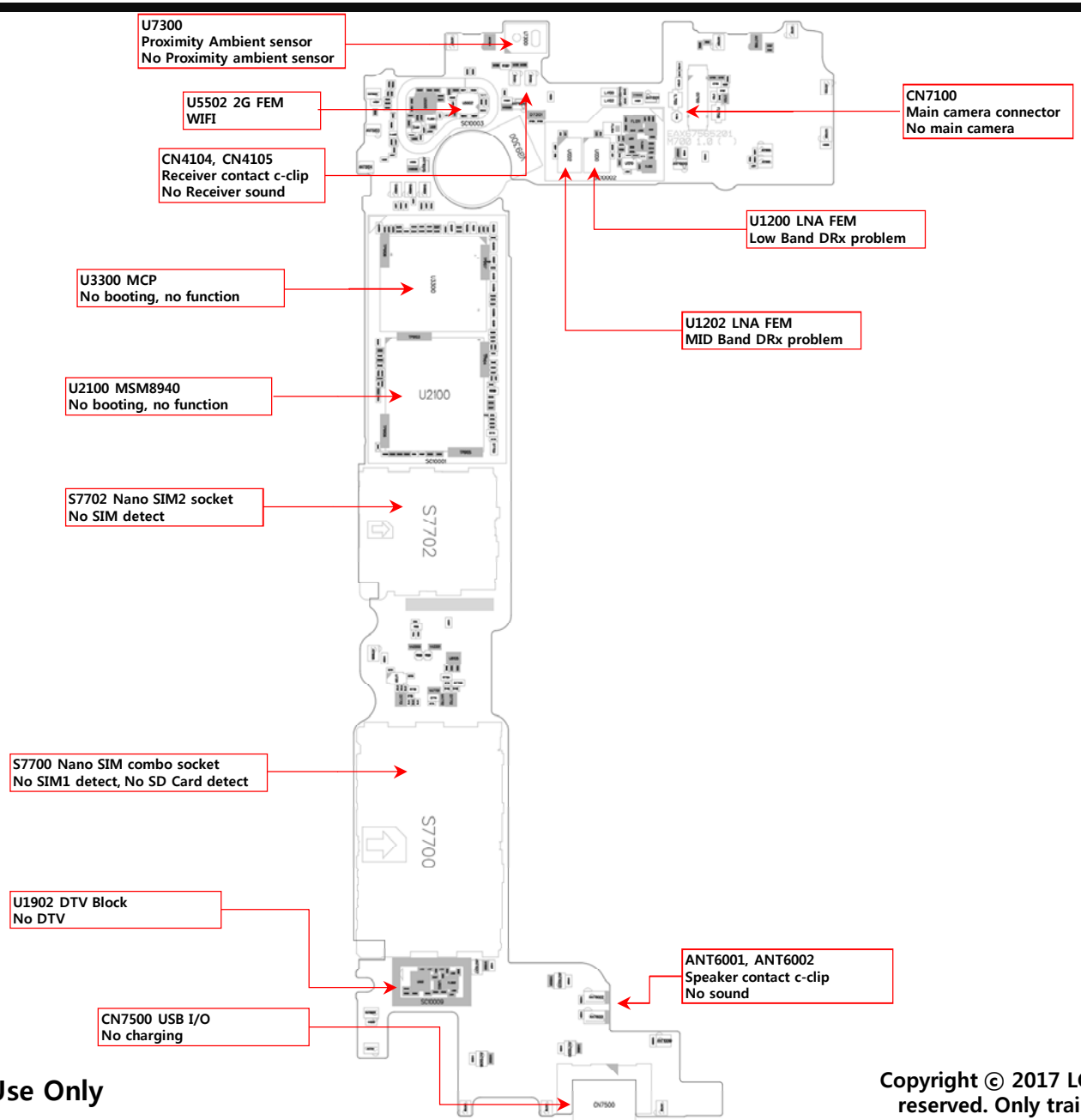
PM_USB_ID : Direct connection to USB connector
to detect ID when MSM PHY is off

LGE Internal Use Only

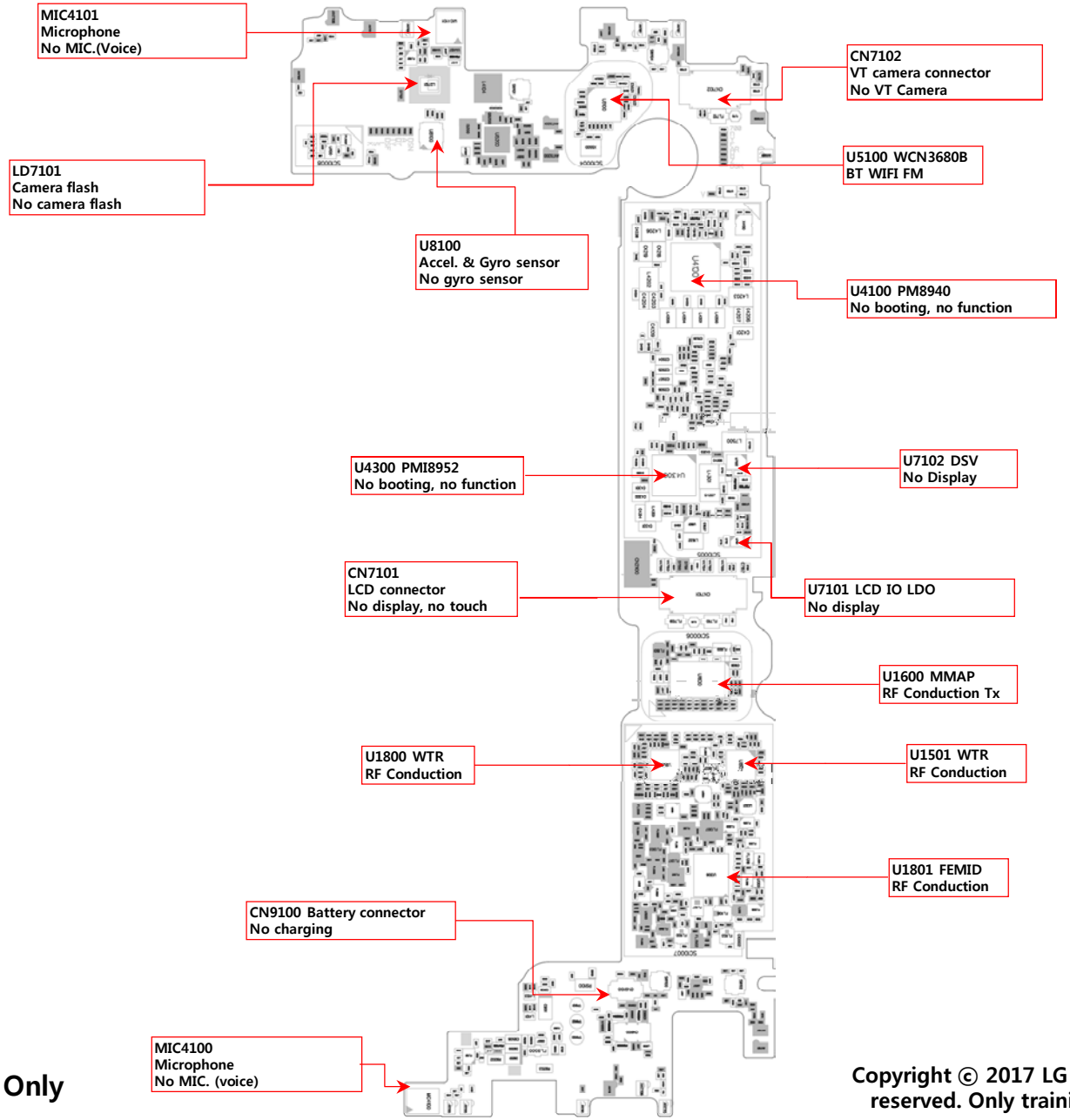
LG Electronics	
TITLE	LGM700H
SIZE A2 / DWG NO	PDM NUMBER
REV	1.0
DRAWN BY: User Name	SHEET of
Date: Drawing Date	

U2100_MSM8940_IC,Digital Baseband Processor (Top)	U3300_MT29TZZZ7D7EKKBT-107,MCP (Top)
 O Not used	 O Not used
U4100_PM8940_IC,PMIC (Bot)	**U4300_PMI8952_IC,sub,PMIC (Top)**
 O Not used	 O Not used

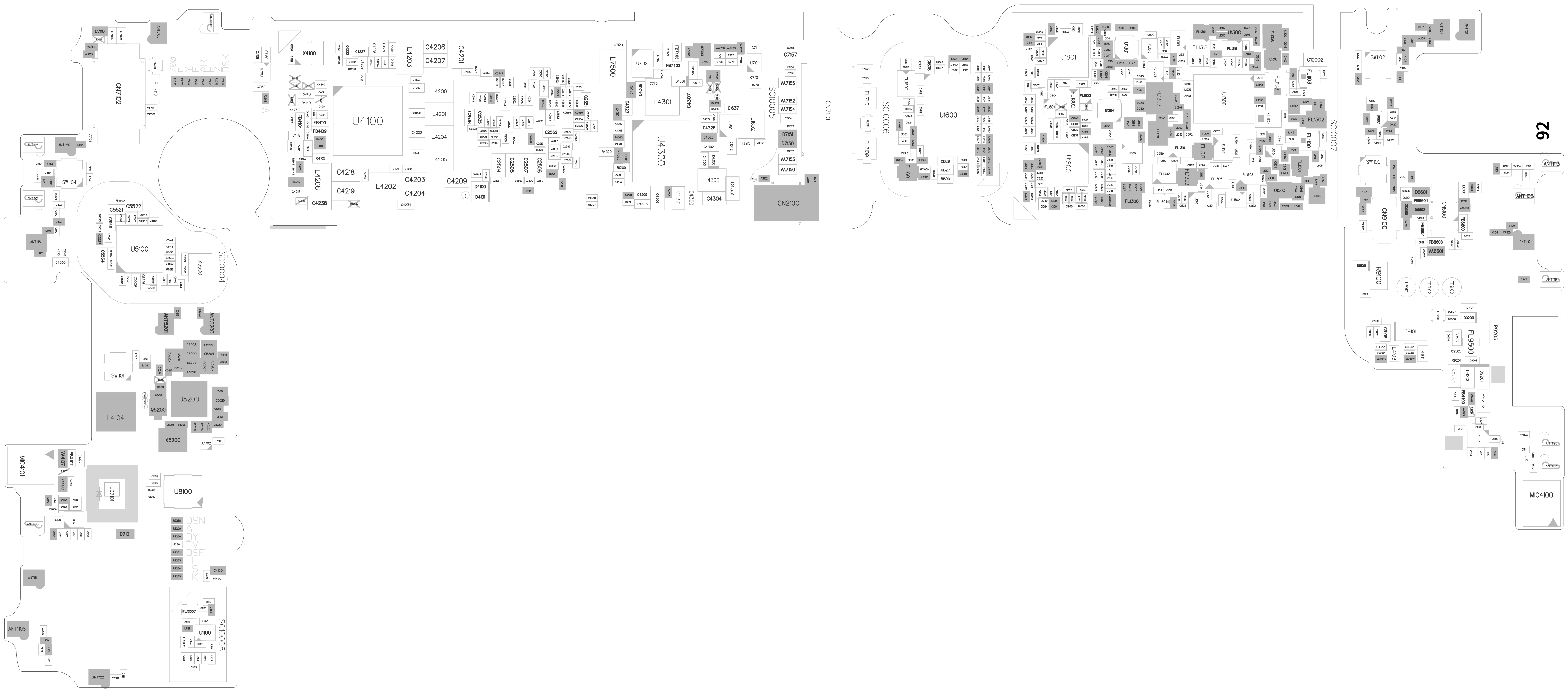
U1600_SKY77661_MMPA (Bot)	U1306_LMSW54GM-J17_FEMID_Rx Module (Bot)
 O Not used	 O Not used
U1800_WTR2965_IC,RF,Transceiver 4G (Bot)	**U1801_WTR2965_IC,RF,Transceiver 4G (Bot)**
 O Not used	 O Not used

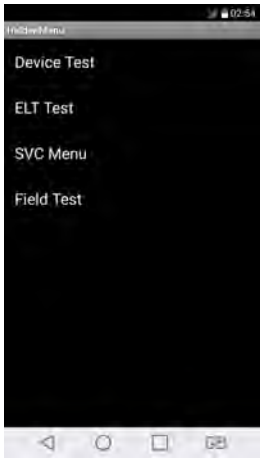
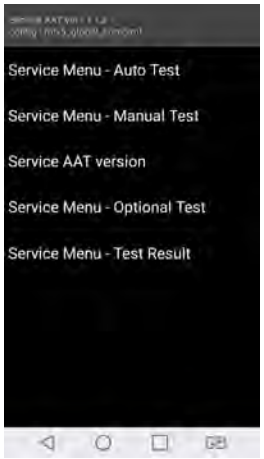
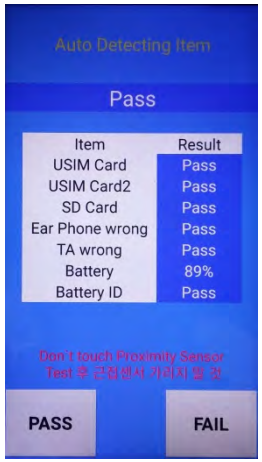
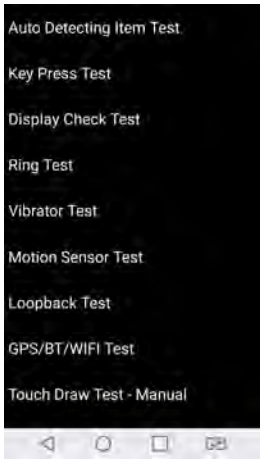


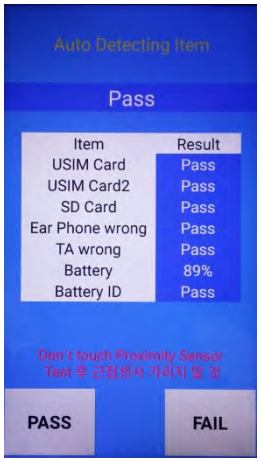
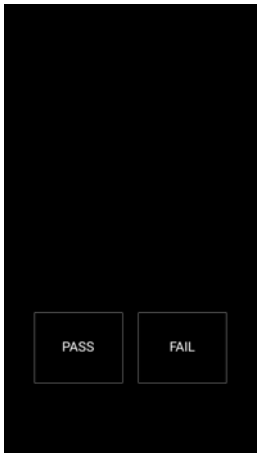
EAX67565201-CA12_1_LGM700TV_1_0_MAIN_170714_TOP

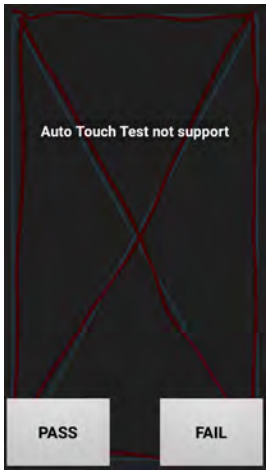
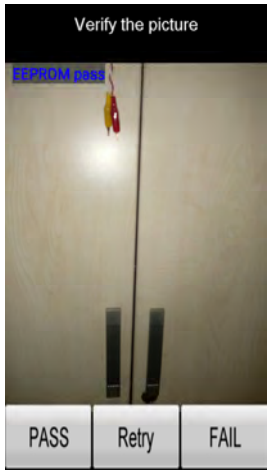
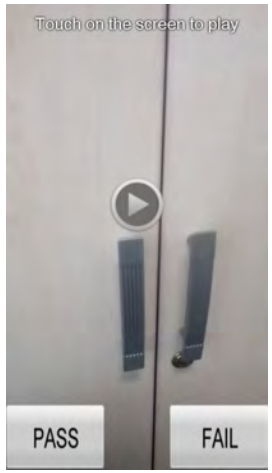
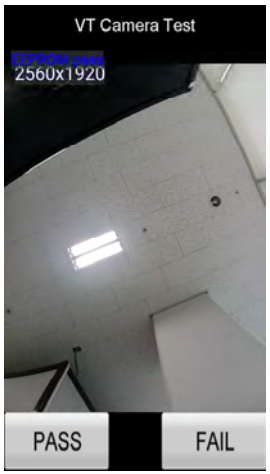


EAX67565201-CA12_1_LGM700TV_1_0_MAIN_170714_BOT



1. Hidden Menu Start	2. Device Test - SAAT
	
- Start shortcut key: *#546368#*700# - Hidden Menu List : Start the desired menu, click	- Service Menu – Auto Test - Service Menu – Manual Test - Service AAT version → Hidden Menu version Display
2. Device Test	**3. Device test List**
	
- Service Menu – Auto Test → All Test Items are continued one after another. → Continuous information on the menu, giving you ability test.	- Service Menu – Manual Test → Each test item can be selected and performed by user.

1. Auto Detecting Item Test	2. Key Press Test	3. Display Check Test (1)	4. Display Check Test (2)
			
5. Ring Test	6. Vibrator Test	7. Motion Sensor Test	8. Loop Back Test
			

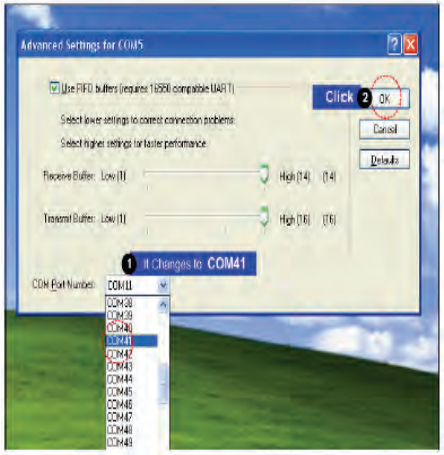
9. GPS/BT/WiFi Test	10. Touch Draw Test	11. Camera Test (Main)	12. Camcorder Test
			
13. Camera Test (VT)	14. FM Radio Test	15. OTG Test	
			

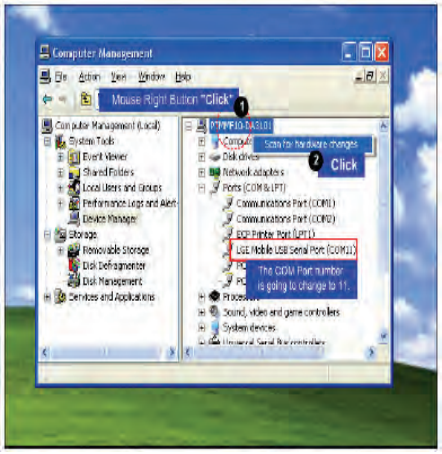
1. Summary

Tool Version	DLL name	USB Driver
LGFLASH v216	LGM700_20170428_LGFLASHv216_Download	LGUnitedMobileDriver_S528MAN314AP22_ML_WHQL_Ver_3.14.1
Please Check the Version to "LGST ServiceCenter Tool"		

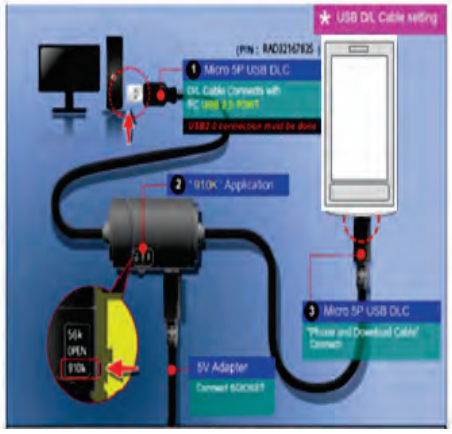
H/W			
	Name	Part No.	SW
D/L Cable	Micro 5P (56-open-910K) USB DLC	RAD32167835	KDZ

2. . USB COM port Setting

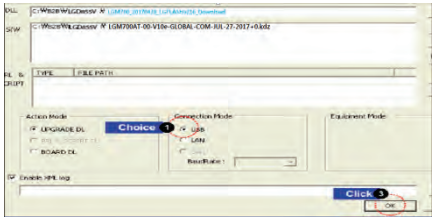


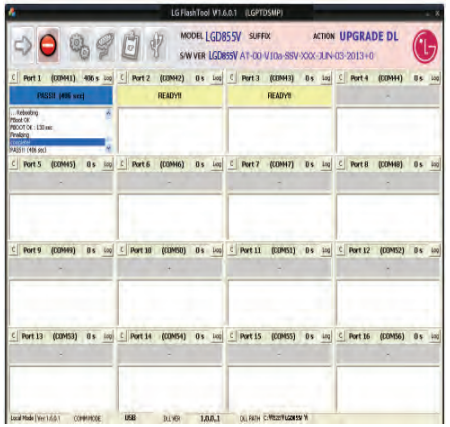


3. USB D/L Cable setting



4. Flash tool D/L setting



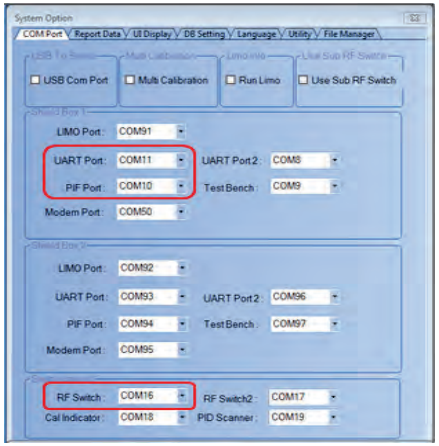


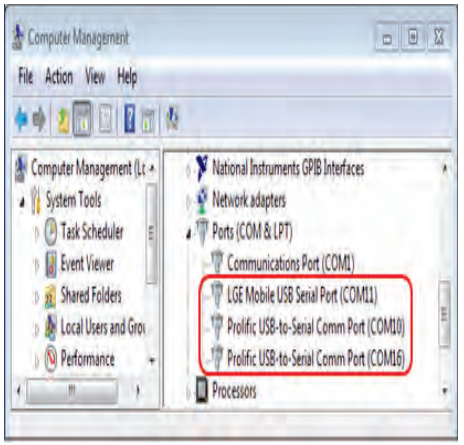
※ If you want more information, please refer LGST ServiceCenter Tool's Notification"Download User Guide".

1. Summary

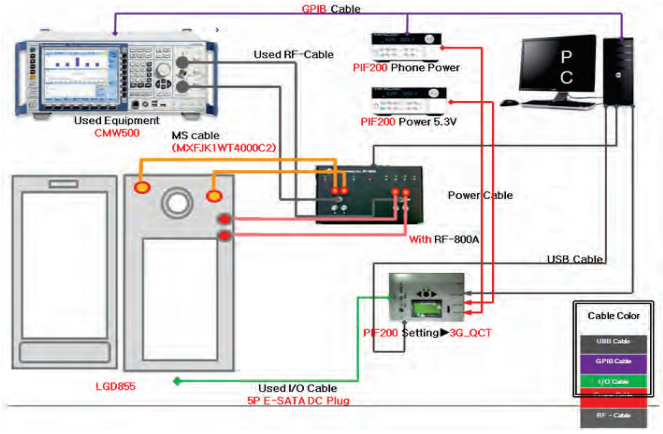
CAL INFORMATION		
S/W VERSION		
Please Check the Version to "B2B"		
H/W		
	Name	Part No.
PIF	PIF200	BJAY0024021
USB Cable	USB Cable	RAD32847816
Power Cable	DC Power Cable	RAD32167835
I/O Cable		
RF Cable_Main		
Power Supply_PIF		
Power Supply_Phone	Power supply 5.0V	
PF Test Equipment		
Notice	1. Use the Battery (Refer to Attached ppt) 1) Phone states: Power off 2) If do not use the battery, TX fails. 2. Port Setting (Refer to Attached ppt) 1) Uart Port1 : Use the "LGE Mobile USB Serial Port"	
CMW 500 RF Cable connection		

2. . USB COM port Setting

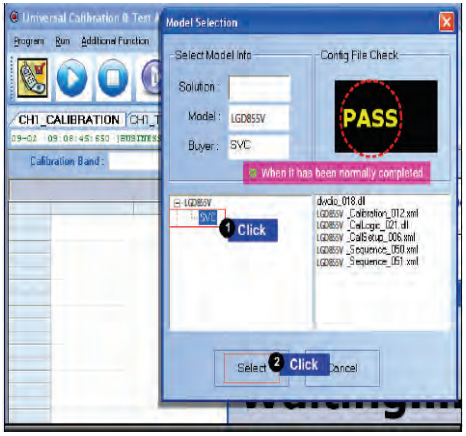


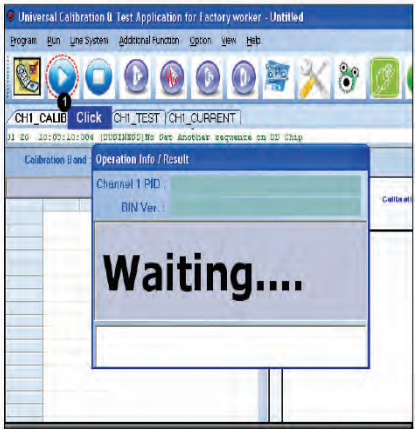


3. Calibration Cable setting



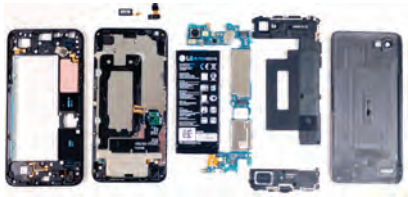
4. Tachyon setting





※ If you want more information, please refer LGST ServiceCenter Tool's Notification "RF Calibration User Guide".

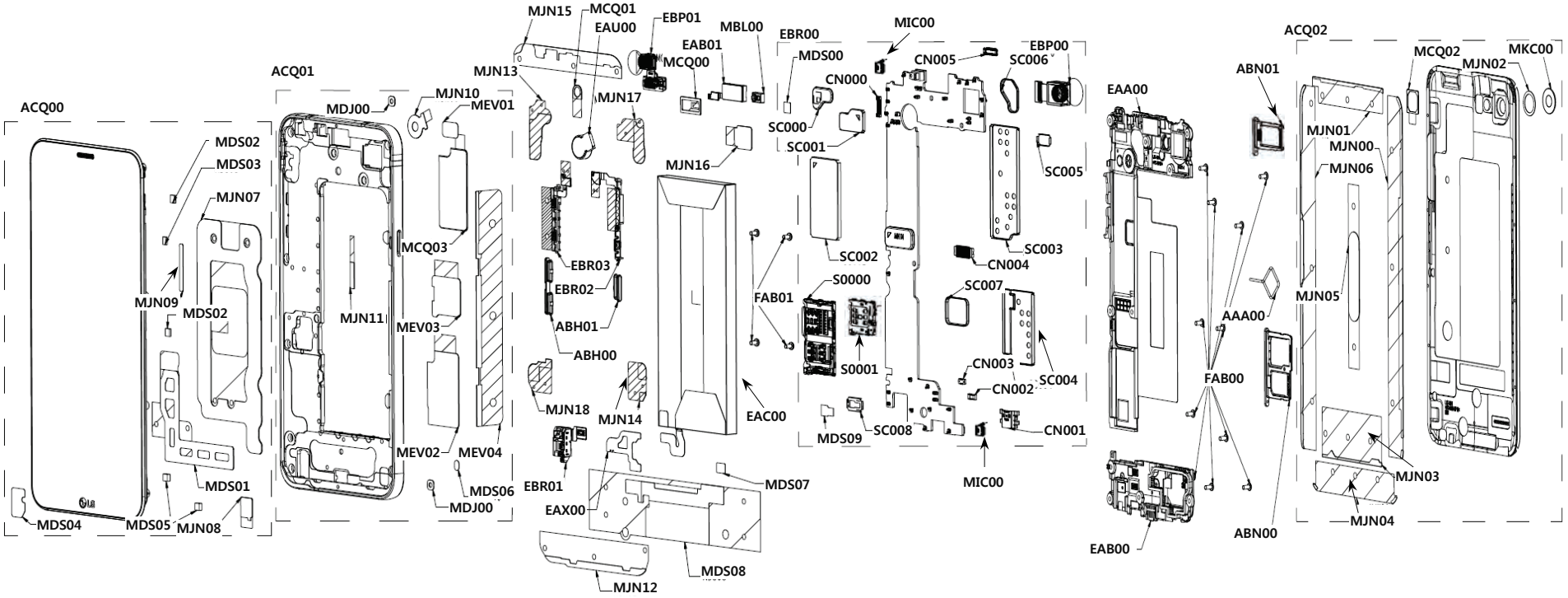
1. Disassemble SIM Tray	2. Disassemble Battery Cover	4. Disassemble Screw (11ea)	4. Disassemble Main Antenna & Sub Antenna
			
5. Disassemble Connector (4ea)	**6. Disassemble Main PCB**	**7. Disassemble HW Parts (2ea)**	**8. Disassemble Battery**
			

9. Disassemble Screw (4ea)	10. Disassemble Deco Front	11. Complete Disassembling	
			

8.2 Battery Disassemble Guide

1. Battery Tape Freezing	2. Disassemble Battery	3.	4.
  Temperature -20℃ Time 30min	 Hit the sample above rubber mat		
5.	**6.**	**7.**	**8.**

12. EXPLODED VIEW



Location No	Description	Location No	Description	Location No	Description	Location No	Description	Location No	Description
EAB00	Speaker Module	CN002	Connector,BtoB	MEV01	Insulator	EBR03	PCB Assembly,Flexible	MJN17	Tape
EAA00	PIFA Antenna,Multiple	CN003	Connector,Terminal Block	MEV02	Insulator	EAB01	Receiver	MJN16	Tape,Camera
FAB00	Screw,Machine	CN004	Connector,BtoB	MEV03	Insulator	MCQ00	Damper	ACQ02	Cover Assembly,Battery
EBR00	PCB Assembly,Main	CN005	Connector,BtoB	MDJ00	Filter	MJN14	Tape	MJN00	Tape
EBP00	Camera Module	SC005	Can,Shield	MEV04	Insulator	MJN13	Tape	MJN01	Tape
MDS00	Gasket	SC006	Can,Shield	MJN11	Tape	FAB01	Screw,Machine	ABN01	Cap Assembly
CN000	Connector,BtoB	SC007	Can,Shield	MDS06	Gasket	MJN12	Tape	MJN02	Tape,Camera
CN001	Connector,I/O	ACQ00	Cover Assembly	MCQ03	Damper	MJN18	Tape	MJN05	Tape
S0000	Socket,DIMM/SIMM	MDS01	Gasket	ABH00	Button Assembly	MDS08	Gasket	MCQ02	Damper,Camera
S0001	Socket,DIMM/SIMM	MDS02	Gasket	ABH01	Button Assembly	MBL00	Cap	MJN04	Tape
SC000	Can,Shield	MDS03	Gasket	EAU00	Motor,DC	MCQ01	Damper,Camera	MJN03	Tape
SC001	Can,Shield	MDS04	Gasket	EAX00	PCB,Flexible	MDS07	Insulator	MJN06	Tape
SC002	Can,Shield	MDS05	Gasket	EBP01	Camera Module	MJN15	Tape	MKC00	Window,Camera
SC003	Can Assembly,Shield	MJN07	Tape	EBR01	PCB Assembly,Flexible	MJN10	Tape	AAA00	Accessory Assembly
SC004	Can Assembly,Shield	MJN08	Tape	EBR02	PCB Assembly,Flexible	EAC00	Rechargeable Battery,Lithium Polymer	ABN00	Cap Assembly
SC008	Can,Shield	MJN09	Tape	ACQ01	Cover Assembly,Front	MIC00	Microphone,Condenser	MDS09	Gasket

No	Part No	Description	Qty	Location No.
	EBR85392601☞1	PCB Assembly,Main		
	EBR85321101☞5	PCB Assembly,Main,SMT	1	EBR071800
	EBR85284301☞91	PCB Assembly,Main,SMT Top	1	EBR071700
	EAE62282201	Capacitor,Ceramic,Chip	1	C5570
	EAE62762301	Capacitor,Ceramic,Chip	2	C5549,C5562
	EAE62923901	Capacitor(High Frequency),Ceramic,Chip	1	C1934
	EAE62947001	Capacitor(High Frequency),Ceramic,Chip	3	C5503,C5548,C5565
	EAE62962201	Capacitor(High Frequency),Ceramic,Chip	1	C5594
	EAE64061501	Capacitor,Ceramic,Chip	2	C5595,C5596
	EAF61450601	Varistor	3	VA9103,VA9105,VA9106
	EAF63050201	Varistor	16	VA10001,VA10010,VA10011,VA10012,VA10013,VA10014,VA10015,VA10017,VA10018,VA10019,VA10020,VA10021,VA10025,VA10026,VA10027,VA10028
	EAF63090601	Varistor	1	VA5101
	EAF63310401	Varistor	1	L5544
	EAG63891001	Connector,BtoB	1	CN7100
	EAG63910001	C-Clip	2	ANT6001,ANT6002
	EAG64149901	Connector,I/O	1	CN7500
	EAG64950101	Socket,DIMM/SIMM	1	S7700
	EAG64972701	Socket,DIMM/SIMM	1	S7702
	EAG64973401	C-Clip	26	ANT10001,ANT10010,ANT10014,ANT10017,ANT10018,ANT10019,ANT10020,ANT10021,ANT10022,ANT1102,ANT1104,ANT1109,ANT1114,ANT1115,ANT1117,ANT1123,ANT1125,ANT5103,ANT5104,ANT9100,ANT9101,CN4104,CN4105,CN9604,CN9605,CN9606
	EAG65289801	C-Clip	4	ANT10011,ANT10012,ANT10013,ANT10015
	EAH61634001	Diode,TVS	2	D7700,D7703
	EAH63452501	Diode,Schottky	1	D5001
	EAH63972701	Diode,TVS	2	VA6604,VA6605
	EAM62570201	Filter,EMI/Power	1	FL7102
	EAM63190301	Filter,Separator	1	FL5501

No	Part No	Description	Qty	Location No.
	EAM63730001	Filter,Saw	1	FL5101
	EAM63870401	Filter,Saw	1	FL1902
	EAM64030801	Filter,EMI/Power	2	FL7100,FL7108
	EAM64251501	Filter,Separator	1	FL1104
	EAN62969801	IC,Hall Effect Switch	1	U7301
	EAN63567401	IC,ISDBT	1	U1902
	EAN63569001	IC,Proximity	1	U7300
	EAN64726701	IC,MCP,eMMC	1	U3300
	EAN64746001	IC,RF Amplifier	1	U1210
	EAN64767101	IC,Digital Baseband Processor,4G	1	U2100
	EAP61866601	Inductor,Multilayer,Chip	5	L9210,L9211,L9212,L9213,L9214
	EAP62107901	Inductor,Multilayer,Chip	1	C1235
	EAP62108201	Inductor,Multilayer,Chip	1	L5501
	EAP62108401	Inductor,Multilayer,Chip	2	L1916,L1919
	EAP62108601	Inductor,Multilayer,Chip	1	L1917
	EAP62109001	Inductor,Multilayer,Chip	1	C5543
	EAP62109801	Inductor,Wire Wound,Chip	2	L4100,L4102
	EAP62226101	Inductor,Multilayer,Chip	1	C5157
	EAP62226201	Inductor,Multilayer,Chip	1	L5545
	EAP62226401	Inductor,Multilayer,Chip	1	L5511
	EAP62226501	Inductor,Multilayer,Chip	1	L1913
	EAP63067001	Inductor,Multilayer,Chip	3	C1276,C1279,L1254
	EAP63746801	Inductor,Multilayer,Chip	2	C1221,C5504
	EAT63253201	Module, FEM(Front End Module)	1	U5502
	EAT63376601	Module,Diversity LNA FEM	1	U1202

No	Part No	Description	Qty	Location No.
	EAT63416001	Module,Diversity LNA FEM	1	U1200
	EAX67565201	PCB,Main	1	EAX010000
	EBC62581801	Resistor,Chip	1	R2115
	EBC62581901	Resistor,Chip	1	R2111
	EBC62858401	Resistor,Chip	1	R1115
	ECA30260001	Coupler,RF Bi-Directional	1	FL5502
	ECCH0000198	Capacitor,Ceramic,Chip	6	C3301,C3302,C3303,C7101,C7103,C7104
	ECCH0004904	Capacitor,Ceramic,Chip	1	C3305
	ECCH0009101	Capacitor,Ceramic,Chip	27	C2105,C2519,C2524,C2525,C2526,C2527,C2571,C3304,C3306,C3309,C3312,C3313,C3314,C3315,C3316,C3317,C3324,C3325,C3326,C3333,C3334,C3335,C3336,C4213,C7700,C8700,C8701
	ECCH0009103	Capacitor,Ceramic,Chip	12	C1194,C1195,C1218,C1231,C1272,C1275,C1933,C5156,C5566,C5572,C5573,L1914
	ECCH0009104	Capacitor,Ceramic,Chip	4	C4130,C4131,C7305,C7306
	ECCH0009105	Capacitor,Ceramic,Chip	1	L5542
	ECCH0009106	Capacitor,Ceramic,Chip	3	C1217,C1229,C1273
	ECCH0009201	Capacitor,Ceramic,Chip	1	C2113
	ECCH0009504	Capacitor,Ceramic,Chip	1	C5569
	ECCH0009514	Capacitor,Ceramic,Chip	3	C7701,C7702,C7705
	ECCH0017301	Capacitor,Ceramic,Chip	17	C1935,C1936,C1937,C1938,C3310,C3318,C3319,C3322,C3323,C3327,C3328,C3329,C3330,C3331,C3332,C7710,C7719
	ECCH0017601	Capacitor,Ceramic,Chip	6	C3300,C3320,C3321,C4222,C4229,C7714
	ECZH0001215	Capacitor,Ceramic,Chip	1	C7102
	ECZH0025911	Capacitor,Ceramic,Chip	2	C5571,L5500
	ECZH0025916	Capacitor,Ceramic,Chip	1	C7715
	ECZH0025920	Capacitor,Ceramic,Chip	2	C1945,C5550
	ERHY0000254	Resistor,Chip	1	R7307
	ERHY0000298	Resistor,Chip	1	R1116
	ERHY0009303	Resistor,Chip	1	R7700

No	Part No	Description	Qty	Location No.
	ERHY0009501	Resistor,Chip	1	R7707
	ERHY0009503	Resistor,Chip	3	R9121,R9122,R9123
	ERHY0009504	Resistor,Chip	1	R5520
	ERHY0009505	Resistor,Chip	1	R3300
	ERHY0009506	Resistor,Chip	6	R2353,R2354,R2356,R2363,R5512,R5519
	ERHY0009516	Resistor,Chip	7	R2200,R2201,R2204,R2205,R2294,R2369,R2370
	ERHY0009584	Resistor,Chip	1	R2110
	ERHY0042409	Resistor,Chip	1	R5518
	ERHZ0000235	Resistor,Chip	1	R2109
	ERHZ0000250	Resistor,Chip	2	R3309,R3311
	ERHZ0000401	Resistor,Chip	1	R7701
	ERHZ0000405	Resistor,Chip	2	R7704,R7711
	MBK65033701	Can,Shield	1	SC10003
	MBK65053301	Can,Shield	1	SC10002
	MBK65053302	Can,Shield	1	SC10001
	MBK65253101	Can,Shield	1	SC10009
	SAFP0000401	Wire Pad,Short	10	FB7101,R2114,R2350,R2351,R3312,R3313,R4101,R6130,R7705,R7706
	SEVY0008102	Varistor	2	VA7102,VA7103
	SEVY0008901	Varistor	2	VA4100,VA4101
	EBR85303501☞220	PCB Assembly,Main,SMT Bottom	1	EBR071600
	ABM75816001☞2	Can Assembly,Shield	1	SC10005
	MBK65053304	Can,Shield	1	MBK070300
	MEV66451101	Insulator	1	MEV000000
	ABM75816101☞2	Can Assembly,Shield	1	SC10007
	MBK65053306	Can,Shield	1	MBK070300

No	Part No	Description	Qty	Location No.
	MEV66510701	Insulator	1	MEV000000
	EAE62282201	Capacitor,Ceramic,Chip	12	C1643,C4140,C4141,C6113,C6115,C6119,C6610,C6611,C6612,C6613,L5113,L5114
	EAE62286801	Capacitor,Ceramic,Chip	12	C2545,C2581,C2582,C2583,C2592,C2593,C4103,C7301,C7302,C7308,C8102,C8109
	EAE62502901	Capacitor,Ceramic,Chip	8	C1637,C4308,C4323,C4326,C5149,C5534,C7121,C9108
	EAE62505701	Capacitor,Ceramic,Chip	1	C9506
	EAE62506501	Capacitor,Ceramic,Chip	6	C1627,C1641,C4302,C7113,C7114,C7120
	EAE62524201	Capacitor,Ceramic,Chip	1	C1616
	EAE62542701	Capacitor,Ceramic,Chip	3	C4201,C4218,C4219
	EAE62762401	Capacitor,Ceramic,Chip	2	C1628,C4137
	EAE62884201	Capacitor(High Frequency),Ceramic,Chip	1	L1634
	EAE62945801	Capacitor(High Frequency),Ceramic,Chip	4	L1115,L1122,L1311,L1319
	EAE62945901	Capacitor(High Frequency),Ceramic,Chip	1	L1619
	EAE62946401	Capacitor(High Frequency),Ceramic,Chip	4	C9510,C9511,C9512,L1609
	EAE62946501	Capacitor(High Frequency),Ceramic,Chip	3	C1197,C1199,L1126
	EAE62946701	Capacitor(High Frequency),Ceramic,Chip	1	L1633
	EAE62946901	Capacitor(High Frequency),Ceramic,Chip	1	L1317
	EAE62947001	Capacitor(High Frequency),Ceramic,Chip	5	C1820,C1821,C1822,C1823,C5500
	EAE62962301	Capacitor,Ceramic,Chip	7	C4116,C4118,C4200,C4202,C4216,C7117,C7303
	EAE62963801	Capacitor(High Frequency),Ceramic,Chip	1	L1605
	EAE62964001	Capacitor(High Frequency),Ceramic,Chip	2	L1618,L1649
	EAE63007901	Capacitor(High Frequency),Ceramic,Chip	1	L1644
	EAE63023801	Capacitor(High Frequency),Ceramic,Chip	2	L1602,L1606
	EAE63143201	Acoustic Noise MLCC	1	C1608
	EAE63286601	Capacitor,Ceramic,Chip	4	C4205,C4208,C4210,C4211
	EAE63621501	Capacitor,Ceramic,Chip	6	C2535,C2536,C2551,C2552,C5521,C5522

No	Part No	Description	Qty	Location No.
	EAE63702301	Acoustic Noise MLCC	1	C1613
	EAE63703001	Capacitor,Ceramic,Chip	2	C10002,C4300
	EAE63882401	Capacitor,Ceramic,Chip	1	C4303
	EAE63903901	Capacitor,Ceramic,Chip	1	C4301
	EAE63941501	Capacitor,TA,Polymer	1	C9101
	EAE64061601	Capacitor,Ceramic,Chip	2	C5528,C5545
	EAE64262401	Capacitor,Ceramic,Chip	3	C4304,C4306,C4331
	EAE64342701	Capacitor,Ceramic,Chip	1	C4307
	EAE64681701	Acoustic Noise MLCC	1	C4209
	EAE64822001	Capacitor,Ceramic,Chip	4	C2500,C2501,C2502,C2503
	EAF63090601	Varistor	8	C1160,R1118,VA1101,VA1102,VA1106,VA1108,VA1109,VA1110
	EAG63772101	Connector,RF	4	SW1100,SW1101,SW1102,SW1104
	EAG64729801	Connector,BtoB	1	CN6100
	EAG64832701	Connector,Terminal Block	1	CN9100
	EAG64973401	C-Clip	9	ANT1101,ANT1103,ANT1105,ANT1106,ANT1112,ANT1113,ANT1119,ANT1120,ANT5102
	EAH61693001	Diode,TVS	4	D4102,D4103,VA4102,VA4103
	EAH61995401	Diode,TVS	2	D9506,D9507
	EAH62033201	Diode,TVS	1	D6600
	EAH62213401	Diode,TVS	1	D9100
	EAH63212501	Diode,Schottky	2	D4300,D4301
	EAH63352501	Diode,TVS	2	D9200,D9201
	EAH63673001	Diode,TVS	1	L1127
	EAM62072101	Filter,Bead	2	FB4109,FB4110
	EAM62252001	Filter,Bead	1	FB10002
	EAM62471001	Filter,Bead	1	FB5500

No	Part No	Description	Qty	Location No.
	EAM62570201	Filter,EMI/Power	2	FL7111,FL7113
	EAM62633401	Filter,Bead	1	FB4101
	EAM62730001	Filter,Separator,Switch	1	U6107
	EAM63150101	Filter,EMI/Power	1	FL9501
	EAM63330901	Filter,Ceramic	1	FL1802
	EAM63470101	Filter,Saw	1	FL10007
	EAM63550201	Filter,Duplexer	1	FL1312
	EAM63730401	Filter,Bead	3	FB4300,FB7102,FB7103
	EAM63790301	Filter,Separator,Switch	1	U1501
	EAM63870901	Filter,Ceramic	1	FL1600
	EAM63930301	Filter,Duplexer	1	FL1316
	EAM64030801	Filter,EMI/Power	3	FL7109,FL7110,FL7112
	EAM64072401	Filter,Duplexer	1	FL1503
	EAM64112901	Filter,Saw	1	FL1304
	EAM64113801	Filter,Separator,Switch	1	FL1102
	EAM64170401	Filter,Separator,Switch	1	U1204
	EAM64171101	Filter,Separator,Switch	1	U1305
	EAM64171401	Filter,Separator,Switch	2	FL1800,FL1801
	EAM64193001	Filter,Separator,Switch	1	FL1315
	EAM64211301	Filter,Separator	1	FL1107
	EAM64251901	Filter,Separator,Switch	1	FL1101
	EAM64252101	Filter,Separator	1	FL1108
	EAM64330801	Filter,Separator,Switch	1	U1301
	EAM64333001	Filter,Duplexer	1	FL1305
	EAM64371301	Filter,Duplexer	1	FL1302

No	Part No	Description	Qty	Location No.
	EAM64510001	Filter,Bead	1	FB5501
	EAN63106301	IC,RF Amplifier	1	U1100
	EAN63149401	IC,DC,DC Converter	1	U1601
	EAN63466901	IC,WiFi	1	U5100
	EAN63606501	IC,LDO Voltage Regulator	1	U7101
	EAN63807801	IC,RF Amplifier	1	U1502
	EAN63847301	IC,RF Amplifier	1	FL1319
	EAN63905801	IC,PMIC	1	U4300
	EAN64010301	IC,LDO Voltage Regulator	1	U7103
	EAN64089501	IC,DC,DC Converter	1	U7102
	EAN64127201	IC,RF Amplifier	1	FL1313
	EAN64168101	IC,Gyro Sensor	1	U8100
	EAN64259501	IC,Power Amplifier	1	U1600
	EAN64265001	IC,PMIC	1	U4100
	EAN64313001	IC,RF Amplifier	1	FL1318
	EAN64369301	IC,RF Amplifier	1	FL1309
	EAN64428701	IC,RF Transceiver,4G	2	U1800,U1801
	EAN64487601	IC,Geomagnetic Sensor	1	U7302
	EAP61747501	Inductor,Multilayer,Chip	2	C1372,VA1104
	EAP61767701	Inductor,Multilayer,Chip	1	L1114
	EAP61767801	Inductor,Multilayer,Chip	2	C1151,L1603
	EAP61866601	Inductor,Multilayer,Chip	2	L1112,L1113
	EAP61866701	Inductor,Multilayer,Chip	5	L1105,L1107,L1120,L1132,L1139
	EAP61925901	Inductor,Multilayer,Chip	4	C1617,L1310,L1318,L1607
	EAP61946101	Inductor,Multilayer,Chip	2	L1118,L1341

No	Part No	Description	Qty	Location No.
	EAP62107801	Inductor,Wire Wound,Chip	1	L7500
	EAP62108101	Inductor,Multilayer,Chip	1	L1220
	EAP62108201	Inductor,Multilayer,Chip	1	L1328
	EAP62108301	Inductor,Multilayer,Chip	2	L1339,L1643
	EAP62108401	Inductor,Multilayer,Chip	3	L1193,L1323,L1331
	EAP62108501	Inductor,Multilayer,Chip	3	L1200,L1327,L1329
	EAP62108601	Inductor,Multilayer,Chip	2	C6123,L1637
	EAP62108701	Inductor,Multilayer,Chip	2	C1107,L1611
	EAP62108801	Inductor,Multilayer,Chip	4	L1800,L1801,L1802,L1803
	EAP62109001	Inductor,Multilayer,Chip	1	C1520
	EAP62186301	Inductor,Multilayer,Chip	1	L1195
	EAP62225901	Inductor,Multilayer,Chip	7	L1100,L1101,L1138,L1191,L1334,L1337,L1343
	EAP62226101	Inductor,Multilayer,Chip	3	L1145,L1340,L1514
	EAP62226301	Inductor,Multilayer,Chip	4	C1150,L1110,L1333,L1631
	EAP62226401	Inductor,Multilayer,Chip	1	L1610
	EAP62226501	Inductor,Multilayer,Chip	2	C1108,L1325
	EAP62226601	Inductor,Multilayer,Chip	8	C1317,C1333,L1102,L1202,L1228,L1244,L1307,L1324
	EAP62226801	Inductor,Multilayer,Chip	1	L5115
	EAP62226901	Inductor,Multilayer,Chip	1	L5546
	EAP62227101	Inductor,Multilayer,Chip	2	L1212,L1515
	EAP62266401	Inductor,Multilayer,Chip	1	L1511
	EAP62526201	Inductor,Multilayer,Chip	1	C1133
	EAP62526401	Inductor,Multilayer,Chip	8	C1110,C1386,C1621,L1144,L1240,L1336,L1345,L1517
	EAP62526501	Inductor,Wire Wound,Chip	3	L4200,L4201,L4300
	EAP62526701	Inductor,Wire Wound,Chip	2	L4202,L4203

No	Part No	Description	Qty	Location No.
	EAP62546201	Inductor,Multilayer,Chip	1	C1519
	EAP62886101	Inductor,Multilayer,Chip	4	L1117,L1332,L1608,L1617
	EAP63066901	Inductor,Multilayer,Chip	1	L1647
	EAP63067001	Inductor,Multilayer,Chip	5	C1109,C1153,L1149,L1234,L1237
	EAP63106701	Inductor,Wire Wound,Chip	1	L4301
	EAP63485901	Inductor,Multilayer,Chip	2	C1398,C1603
	EAP63566101	Inductor,Wire Wound,Chip	1	L4206
	EAP63626101	Inductor,Wire Wound,Chip	1	L1632
	EAP63646601	Inductor,Multilayer,Chip	2	L1624,L1646
	EAP63647001	Inductor,Multilayer,Chip	2	L4204,L4205
	EAP63746201	Inductor,Multilayer,Chip	1	C1605
	EAP63746801	Inductor,Multilayer,Chip	2	C1341,C1511
	EAP63766601	Inductor,Multilayer,Chip	1	L1600
	EAP63806101	Inductor,Wire Wound,Chip	2	L6106,L6107
	EAP63808301	Inductor,Wire Wound,Chip	2	L4101,L4103
	EAT63533101	Module,Rx Module	1	U1306
	EAT63694301	Module,LNA FEM	1	U1303
	EAV63555501	LED,Flash	1	LD7101
	EAW62883501	Crystal	1	X5500
	EAW63203501	Crystal	1	X4100
	EBC61856201	Resistor,Chip	1	R2107
	EBC62575901	Resistor,Chip	2	R4307,R4308
	EBC62581901	Resistor,Chip	1	R5546
	EBG62665701	Thermistor,NTC	2	PT1600,PT4100
	ECA30360101	Coupler,RF Directional	2	FL1100,FL1103

No	Part No	Description	Qty	Location No.
	ECCH0000113	Capacitor,Ceramic,Chip	1	C7521
	ECCH0000115	Capacitor,Ceramic,Chip	1	C9507
	ECCH0000198	Capacitor,Ceramic,Chip	2	C2549,C4215
	ECCH0002002	Capacitor,Ceramic,Chip	1	C1629
	ECCH0004904	Capacitor,Ceramic,Chip	3	C7112,C7160,C7161
	ECCH0007803	Capacitor,Ceramic,Chip	1	C4238
	ECCH0009101	Capacitor,Ceramic,Chip	56	C1117,C1123,C1137,C1139,C1826,C1827,C1829,C1831,C1832,C1833,C2104,C2106,C2509,C2510,C2516,C2517,C2518,C2520,C2521,C2522,C2529,C2530,C2531,C2542,C2556,C2559,C2560,C2561,C2562,C2563,C2564,C2565,C2568,C2569,C2570,C2572,C2573,C2575,C2576,C2577,C2578,C2579,C2587,C2588,C2589,C2590,C2591,C3308,C4112,C4122,C4128,C4224,C4313,C4319,C4327,C7716
	ECCH0009102	Capacitor,Ceramic,Chip	1	C1640
	ECCH0009103	Capacitor,Ceramic,Chip	56	C1106,C1111,C1119,C1122,C1127,C1129,C1155,C1185,C1189,C1190,C1191,C1230,C1306,C1313,C1316,C1324,C1325,C1326,C1331,C1344,C1361,C1373,C1379,C1381,C1384,C1395,C1396,C1397,C1400,C1513,C1522,C1529,C1604,C1607,C1612,C1623,C1801,C1802,C1803,C1804,C1809,C1810,C1836,C1837,C5145,C5146,C5147,C5524,C5546,C6615,C7150,C7151,C9508,C9509,L1116,VA1111
	ECCH0009104	Capacitor,Ceramic,Chip	23	C1132,C1200,C1203,C1204,C1224,C1246,C1254,C1261,C1288,C1304,C1321,C1351,C1352,C1359,C1369,C1370,C4111,C4132,C4133,C6601,C6606,C6607,L1229
	ECCH0009105	Capacitor,Ceramic,Chip	3	C4329,C7157,C7158
	ECCH0009106	Capacitor,Ceramic,Chip	23	C1112,C1232,C1318,C1374,C1383,C1393,C1518,C1523,C1618,C1814,C1818,C1824,C1825,C1828,C1830,C1834,C1835,C5150,C5523,C5535,C5538,C5539,C5547
	ECCH0009110	Capacitor,Ceramic,Chip	1	C5593
	ECCH0009216	Capacitor,Ceramic,Chip	2	C1839,C1840
	ECCH0009502	Capacitor,Ceramic,Chip	1	L1627
	ECCH0009506	Capacitor,Ceramic,Chip	5	C1314,C1329,C1375,C1407,L1635
	ECCH0009514	Capacitor,Ceramic,Chip	3	C7711,C7717,C7718
	ECCH0009520	Capacitor,Ceramic,Chip	1	L1641
	ECCH0017301	Capacitor,Ceramic,Chip	41	C1805,C1808,C1813,C1817,C2512,C2513,C2515,C2528,C2532,C2533,C2538,C2539,C2540,C2544,C2546,C2547,C2548,C2550,C2554,C2555,C2558,C2566,C2567,C2574,C2584,C2585,C2586,C3311,C4117,C4212,C4214,C4220,C4221,C4226,C4228,C4231,C4233,C4240,C4241,C4310,C4311
	ECCH0017501	Capacitor,Ceramic,Chip	8	C2504,C2505,C2506,C2507,C4203,C4204,C4206,C4207
	ECCH0017601	Capacitor,Ceramic,Chip	17	C1642,C2514,C2534,C2537,C2553,C4105,C4223,C4225,C4227,C4230,C4232,C4234,C4239,C4309,C5529,C7106,C7108
	ECCH0034801	Capacitor,Ceramic,Chip	5	C1815,C1819,C4314,C4315,C5526
	ECCH0035101	Capacitor,Ceramic,Chip	1	L1626
	ECZH0000830	Capacitor,Ceramic,Chip	1	C4127
	ECZH0001215	Capacitor,Ceramic,Chip	6	C7109,C7111,C7152,C7153,C7154,C7159

No	Part No	Description	Qty	Location No.
	ECZH0004402	Capacitor,Ceramic,Chip	1	C9505
	ECZH0025905	Capacitor,Ceramic,Chip	1	C1102
	ECZH0025911	Capacitor,Ceramic,Chip	3	C1161,C5501,L1309
	ECZH0025916	Capacitor,Ceramic,Chip	25	C1101,C1120,C1125,C1130,C1131,C1157,C1228,C1248,C1257,C1311,C1354,C1357,C1365,C1388,C1389,C1402,C1403,C1524,C1525,C1526,C1626,C1630,C1631,C1632,C9100
	ECZH0025917	Capacitor,Ceramic,Chip	2	C5165,C9102
	ECZH0025920	Capacitor,Ceramic,Chip	4	C1345,C1362,C4121,C6614
	EDSY0018101	Diode,Switching	2	D4100,D4101
	EDTY0012102	Diode,TVS	1	D9203
	EDTY0012501	Diode,TVS	3	VA7150,VA7153,VA7155
	ENBY0036001	Connector,BtoB	1	CN7101
	ENBY0040701	Connector,BtoB	1	CN7102
	ERHY0000161	Resistor,Chip	1	R4322
	ERHY0009303	Resistor,Chip	1	R7710
	ERHY0009311	Resistor,Chip	4	R1100,R1107,R1806,R1807
	ERHY0009501	Resistor,Chip	8	R1802,R1803,R1804,R1805,R1808,R1809,R6139,R7712
	ERHY0009505	Resistor,Chip	1	R1114
	ERHY0009506	Resistor,Chip	4	R2261,R5510,R5513,R5517
	ERHY0009507	Resistor,Chip	1	R5509
	ERHY0009508	Resistor,Chip	1	C4191
	ERHY0009515	Resistor,Chip	2	R1810,R1811
	ERHY0009516	Resistor,Chip	4	R2212,R2217,R2360,R2361
	ERHY0009536	Resistor,Chip	5	R4124,R4126,R4134,R4145,R4311
	ERHY0009547	Resistor,Chip	1	R4355
	ERHY0009553	Resistor,Chip	1	R4144
	ERHY0009554	Resistor,Chip	1	R4143

No	Part No	Description	Qty	Location No.
	ERHY0035601	Resistor,Chip	1	R9100
	ERHY0042409	Resistor,Chip	1	R1108
	ERHZ0000312	Resistor,Chip	1	R9109
	ERHZ0000401	Resistor,Chip	3	R1600,R4148,R4149
	ERHZ0000486	Resistor,Chip	1	R9201
	ERHZ0000493	Resistor,Chip	1	R4305
	ERHZ0000701	Resistor,Chip	2	R9202,R9203
	MBK65033601	Can,Shield	1	SC10008
	MBK65053303	Can,Shield	1	SC10004
	MBK65053305	Can,Shield	1	SC10006
	MEZ65049701	Label	1	PID1
	SAFO0000401	Wire Pad,Open	4	R4109,R4120,R4137,R4204
	SAFP0000401	Wire Pad,Short	10	R1800,R4138,R4139,R4141,R4151,R4205,R5202,R7110,R7309,R7310
	SEVY0005201	Varistor	2	VA7152,VA7154
	SEVY0008102	Varistor	3	VA7106,VA7107,VA9100
	SFBH0008102	Filter,Bead	2	FB4100,FB4102
	SFBH0008103	Filter,Bead	4	FB6600,FB6601,FB6603,FB6604
	SFEY0015301	Filter,EMI/Power	1	FL9500
	SUMY0010616	Microphone,Condenser	2	MIC4100,MIC4101
	MEZ65049703	Label	0	MEZ000000
	RAA34548901	Resin,PC	0.5	RAA050100
	*S*BRAH0001304	Resin,PC	0.5	RAA050100

P/N : FLXXXXXXXX(X.X)