

SM-S911B_S916B_SREV0.7

2022. 10. 05

SHEET01 : RF

SHEET02 : BT/WIFI

SHEET03 : SPK AMP, NFC IC, MOTOR DRIVER IC, AUX SW, SIDE KEY

SHEET04 : AP(1/2), UFS, NVM

SHEET05 : AP(2/2), Charger block

SHEET06 : AP PMIC set, Clock Generator

SHEET07 : CAM PMIC, CAM Conn., CAM MCU, DISPLAY PMIC, DISPLAY Conn.

SHEET08 : 5G IFIC, mmW connector, RF PMIC #2

SHEET09 : INTERPOSER, SHIELDCAN

Engineer:	
Drawn by:	
REQ CHK:	
DOC CTLR CHK:	
MPG ENGR CHK:	

TRANSCEIVER(Dual SDR735)

DRX_ANT Radiation Conduction

SUB ANT1_Frame
(lb_hb)

SUB3
(N77/78_WIFI 5G)

SUB5
(n79)

SUB ANT2_Slit
(MB_HB_N79_L1)

SUB4
(mb_WIFI 2.4G)

SUB6
(n77/78)



CCP

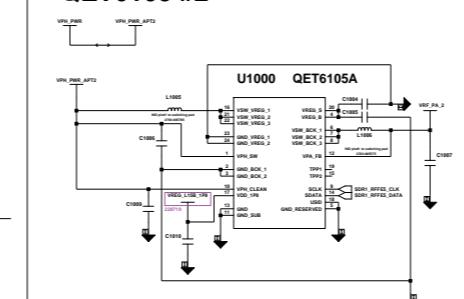
DRX_LB

(B5/8/12/13/14/17/18/19/20/26/28/29/71_BC0/10_G850/900)

DRX_MHB_2

(B2/4/7/25/30/41/66)

QET6105 #2



ENDC module

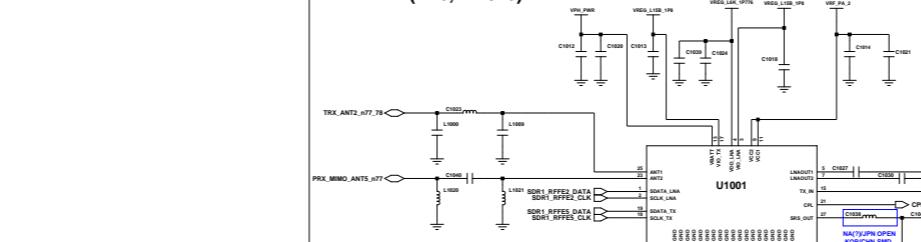
(B1/2/3/4/7/25/30/39/41/66_BC1_DCS/PCS)

PMR735D #0

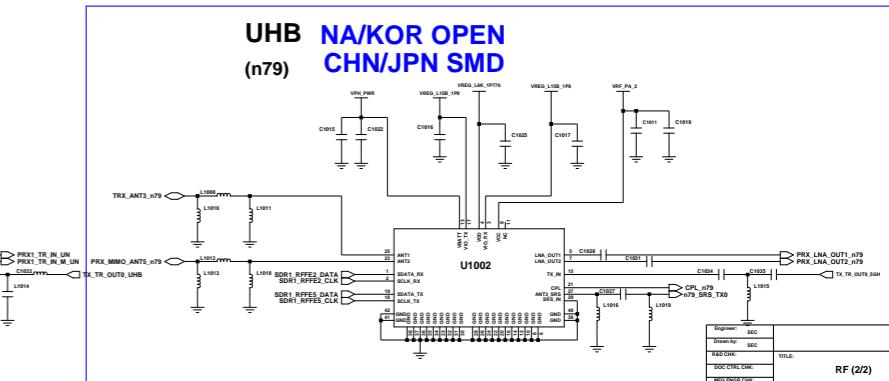
GPS_L1(for SUB4 opt)

GPS_L5

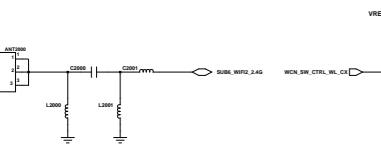
UHB
(B48, n77/78)

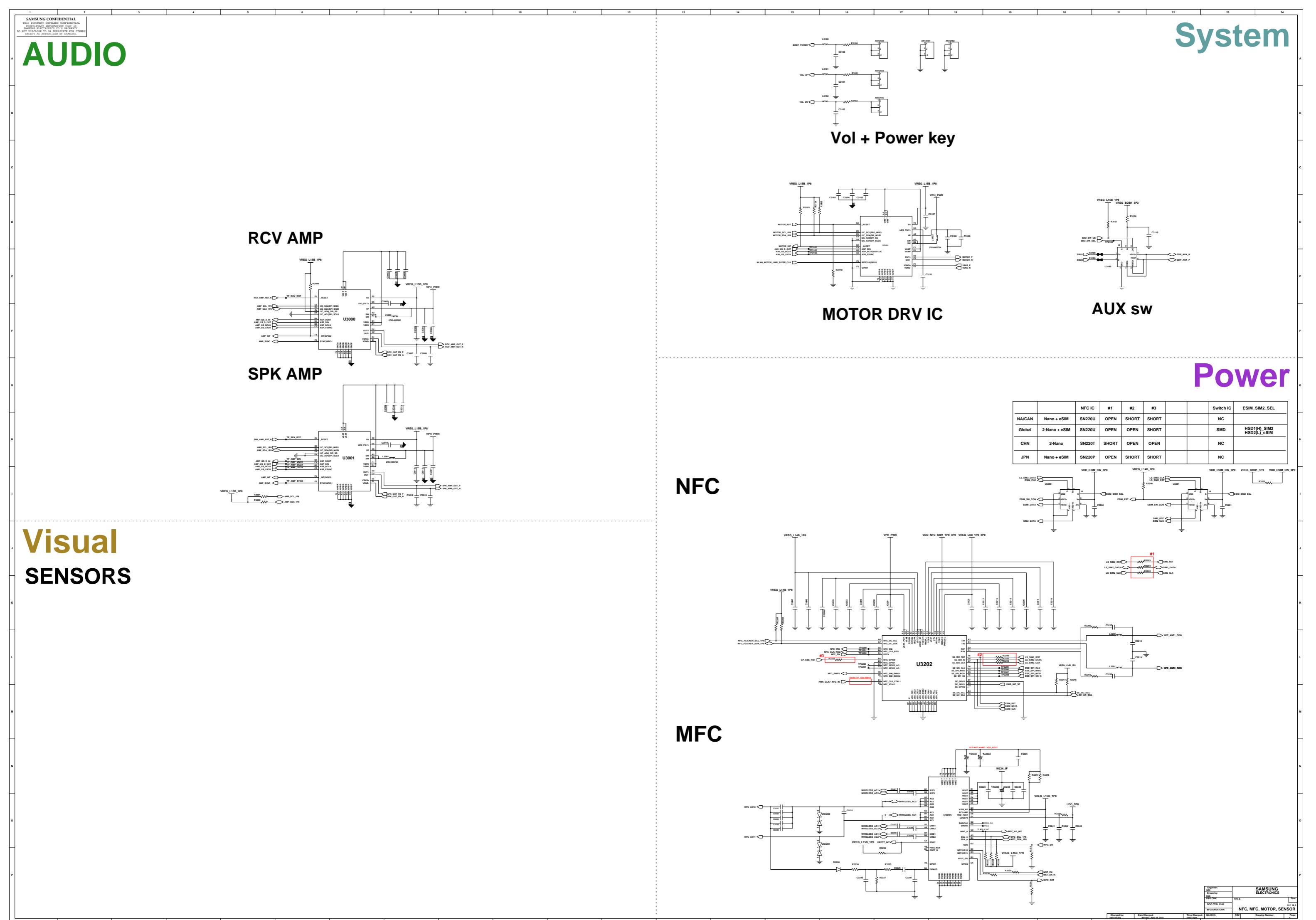


UHB NA/KOR OPEN
CHN/JPN SMD
(n79)



WIFI (WCN7851 CoB

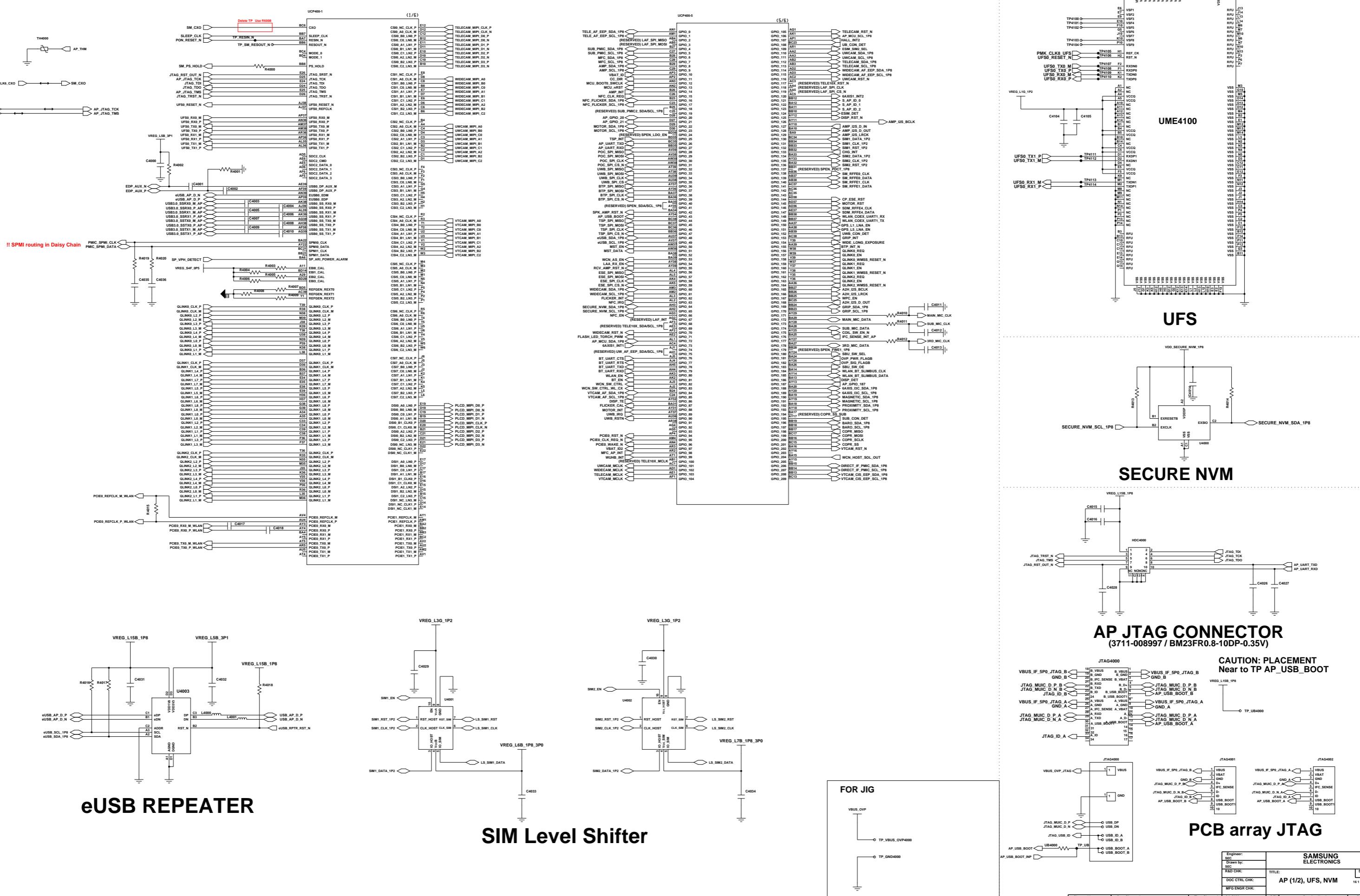




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SM8550 (1/2) **(IO, CONTROL)**

System

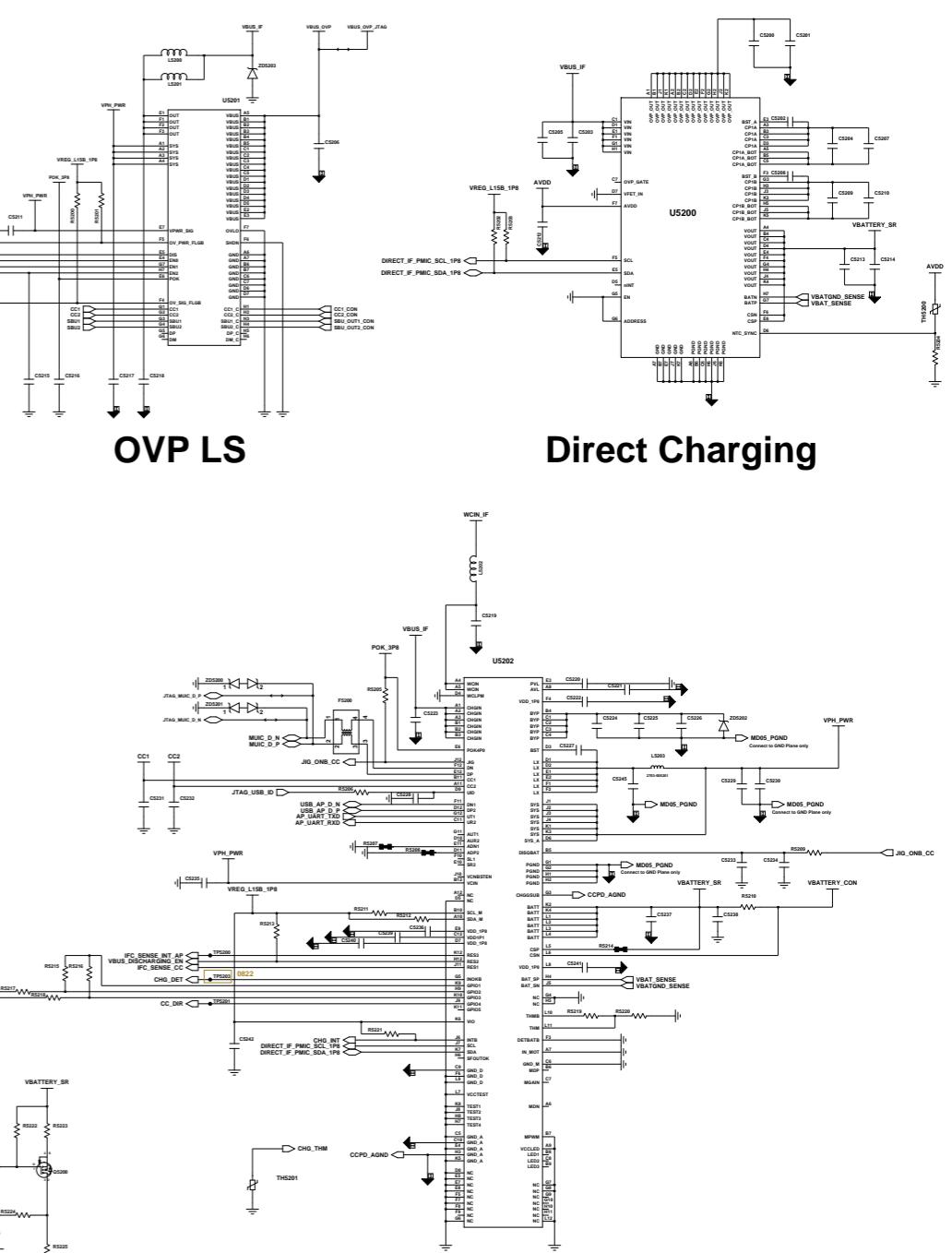
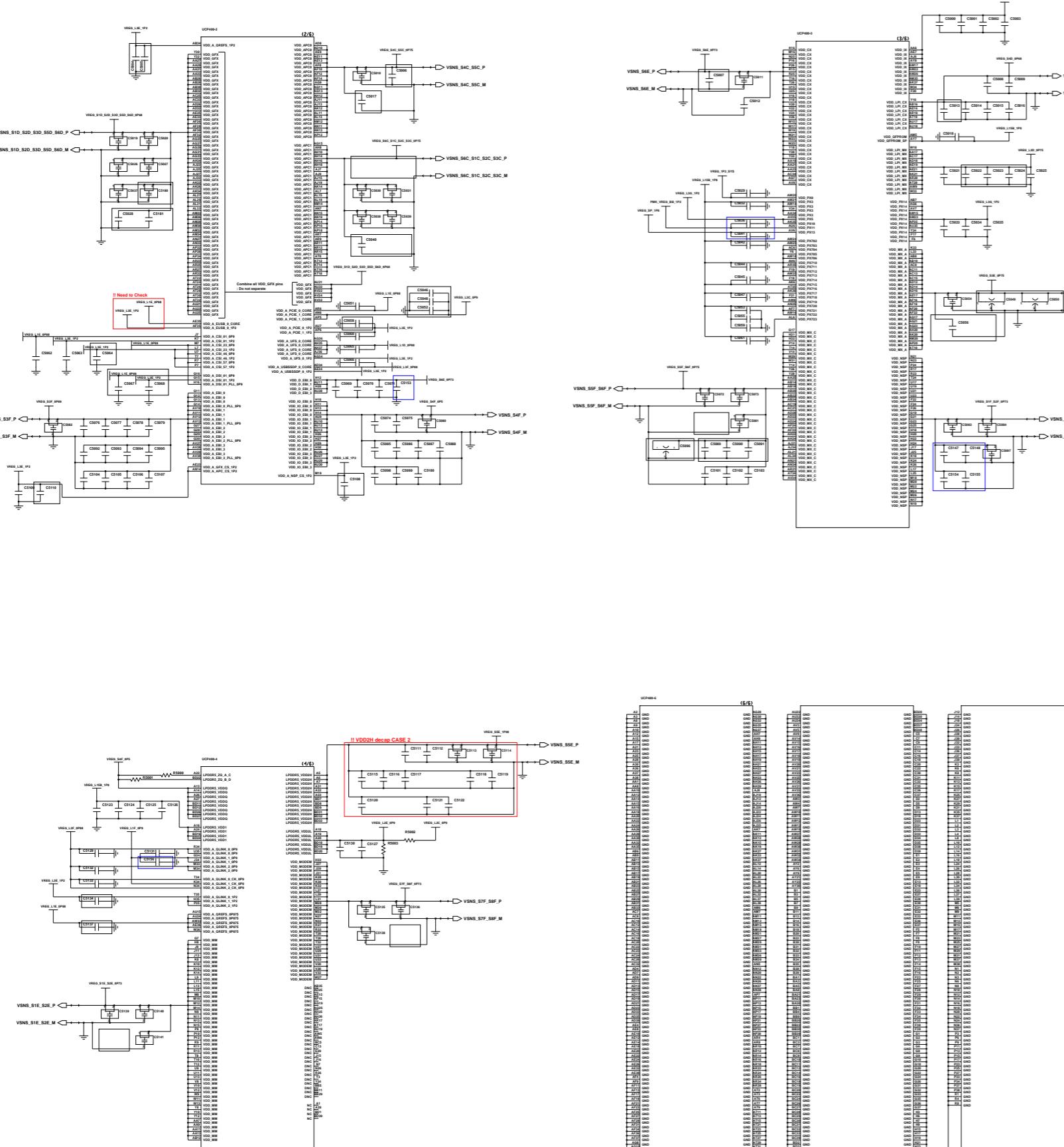


SM8550 (2/2) (POWER decap, GND)

Power

Charger block

Power

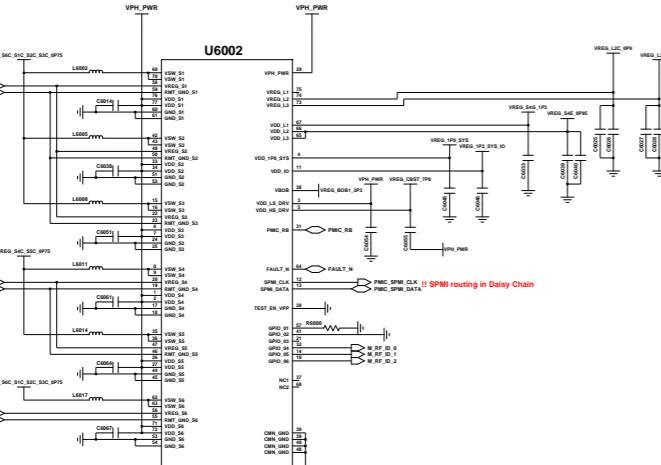


IF PMIC

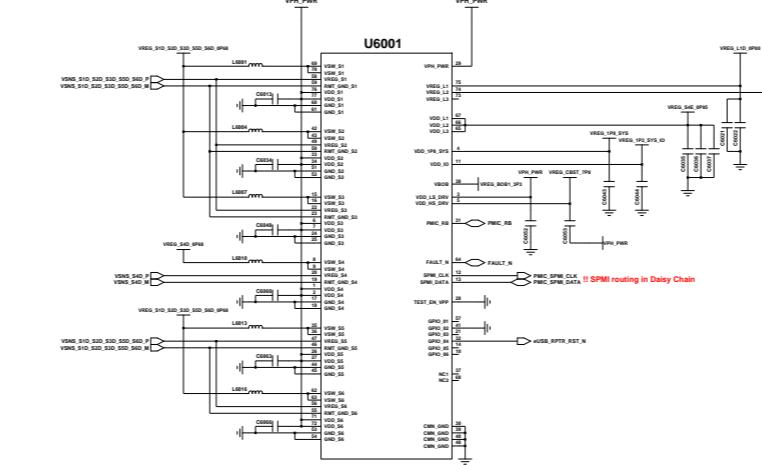
PM8550VS, PM8550VE

!! CAUTION !!

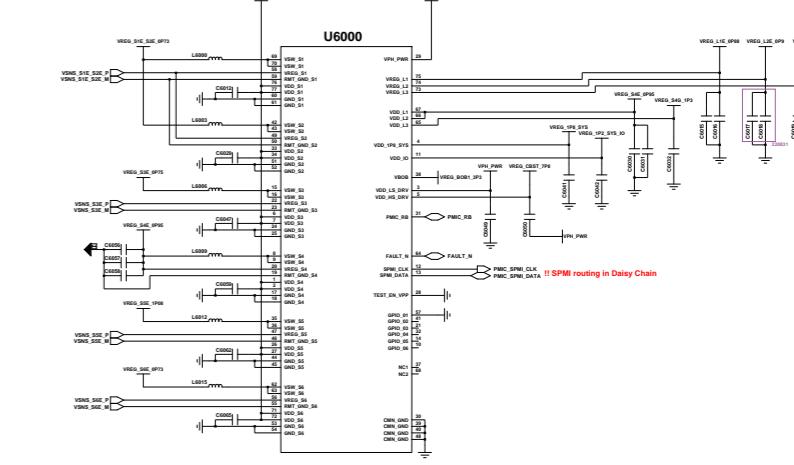
- PM8550VS : VDD_S1, S3, S4, S6
- PM8550VE : VDD_S1, S4, S5, S8



PM8550VS_C



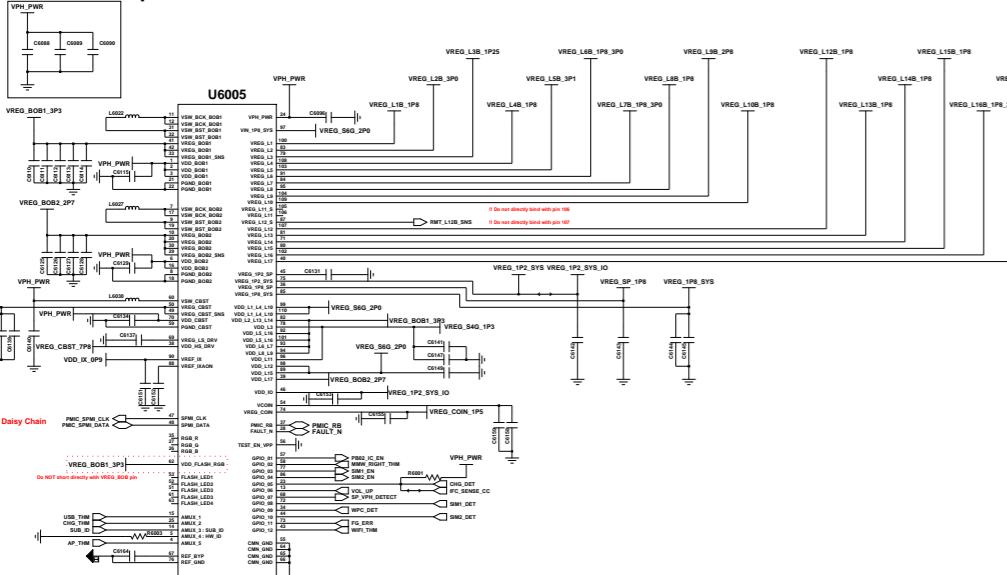
PM8550VS_



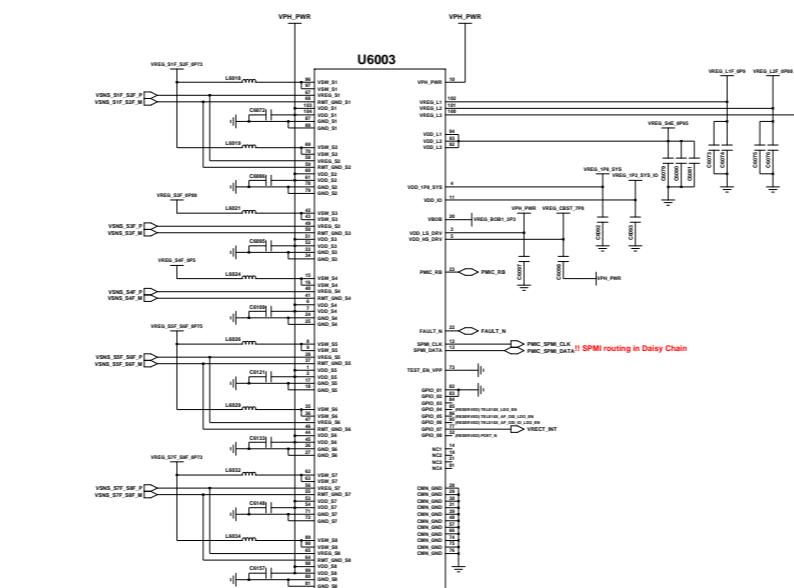
PM8550VS_E

PM8550

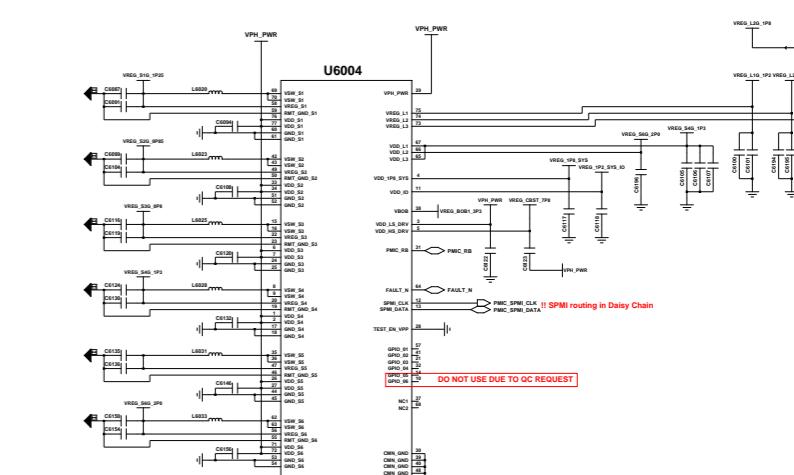
Extra Bulk cap



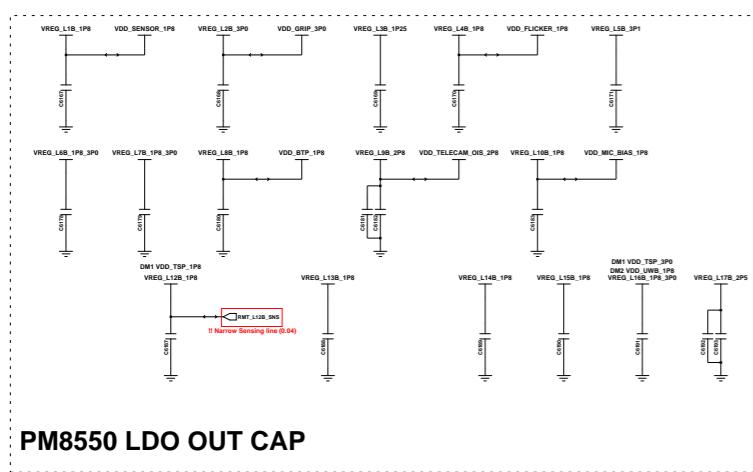
PM8550



PM8550VE



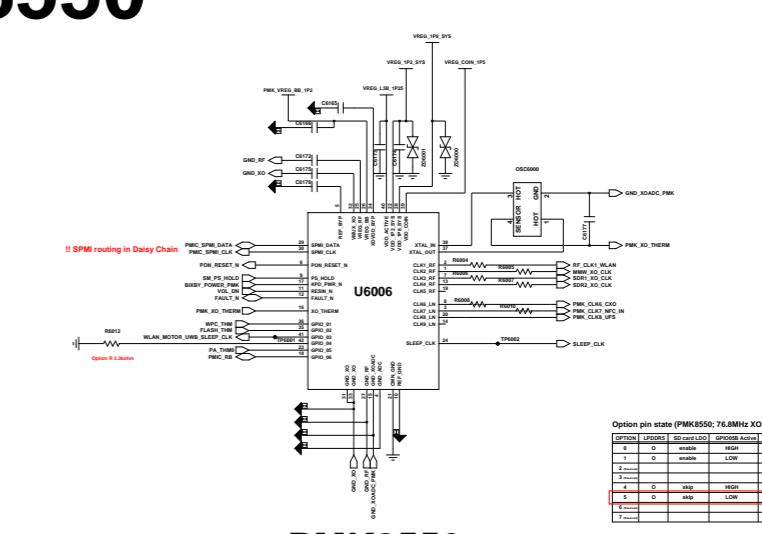
PM8550VS C



PM8550 LDO OUT CAP

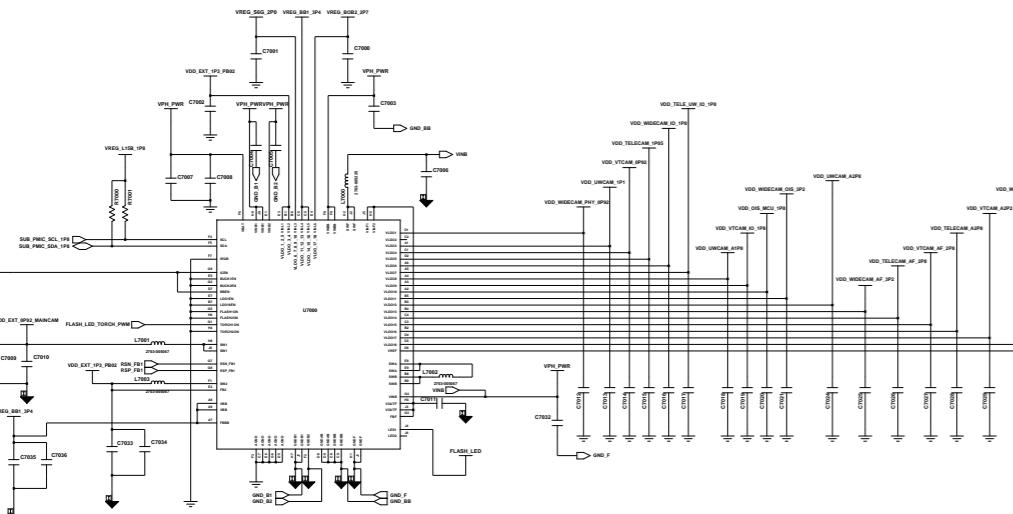
H/W ID table (PM8550 AMU)		
HW ID	BOARD REVISION	Value
00	SM8550 SW bring-up A-Type	6.04K
01	SM-S911U / 916U REV0.0	9.1K
02	SM-S911U / 916U REV0.1	12.4K
03	SM-S911U / 916U REV0.2 (ESv1)	18K
04	SM-S911U / 916U REV0.2 (ESv2)	22K
05	SM-S911U / 916U REV0.3 (ESv2)	30K
06	SM-S911U / 916U REV0.4	39K
07	SM-S916U REV0.4A	47K
08	SM-S911U / 916U REV0.5	56K
09		68K
10	SM-S911U / 916U REV0.5 (QPM6815)	82K
11	SM-S911U / 916U REV0.6	100K
12		120K
13	SM-S911U / 916U REV0.7	150K
14		180K
15		200K
16		240K
17		280K
18		330K
19		430K
20		560K
21		750K
22		1000K
23		1500K
24		2000K

PMK8550



040

CAMERA



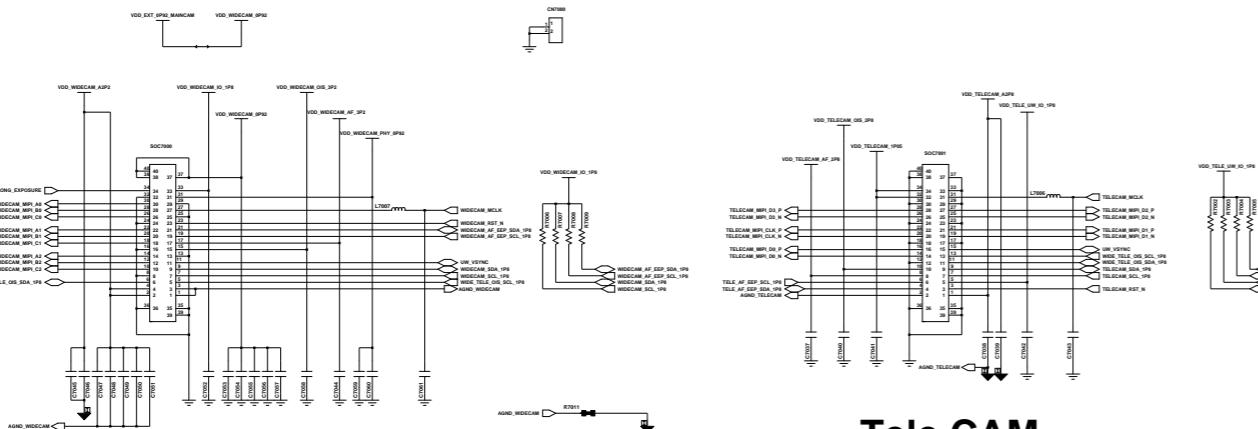
CAM PMIC (PB02)

Visual

DISPLAY

Visual

Flash & Flicker sensor



Tele CAM

Wide CAM

DISPLAY CONNECTOR

System

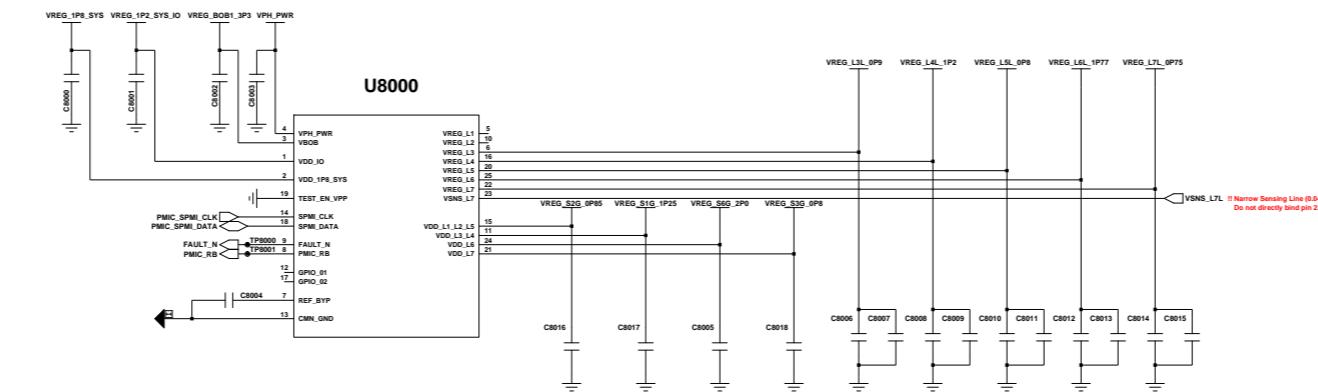
ULTRA WIDE CAM

FRONT CAM



IF SUB PBA Conn

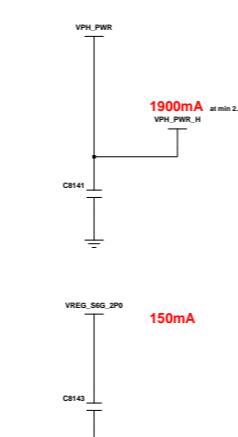
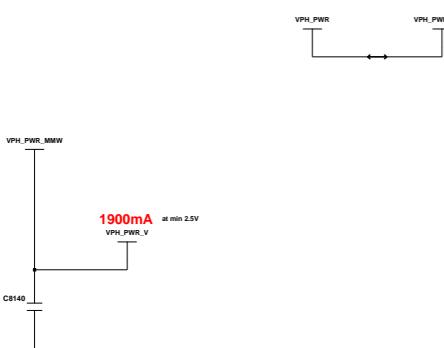
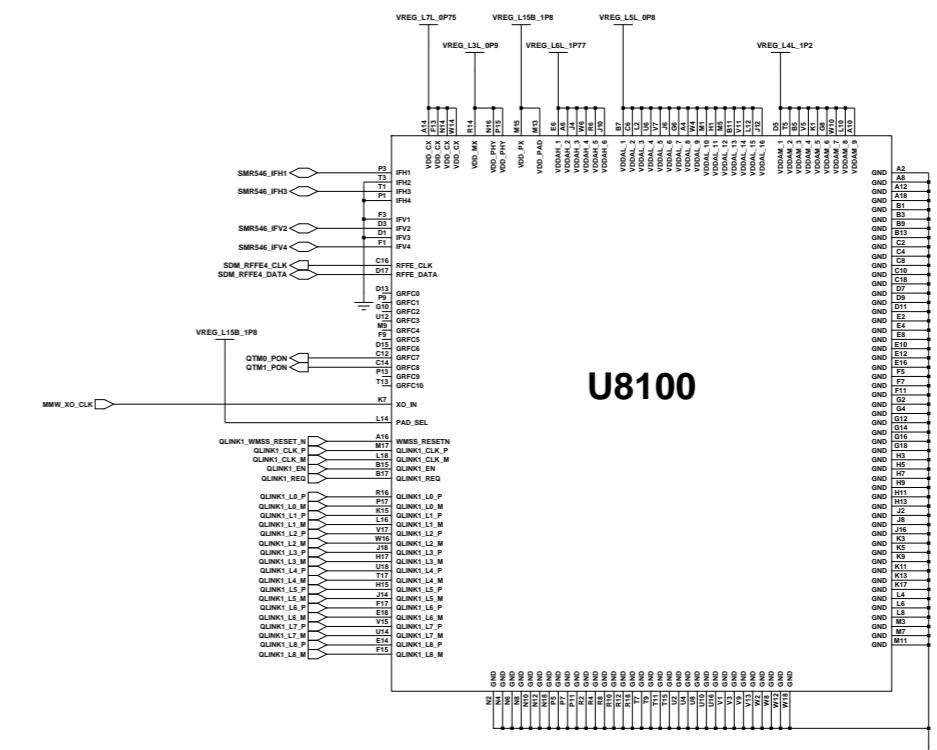
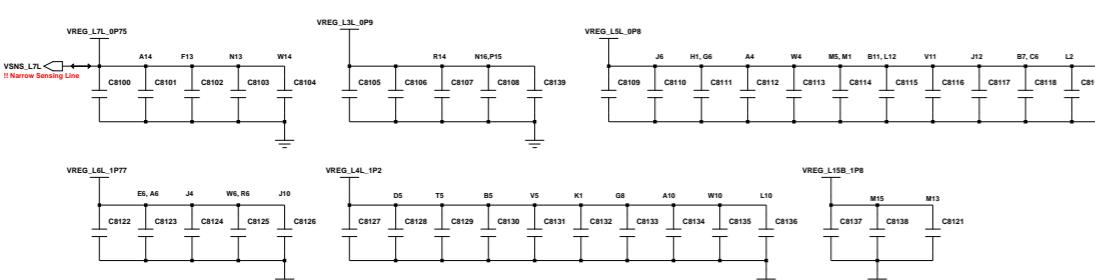
CAM MCU



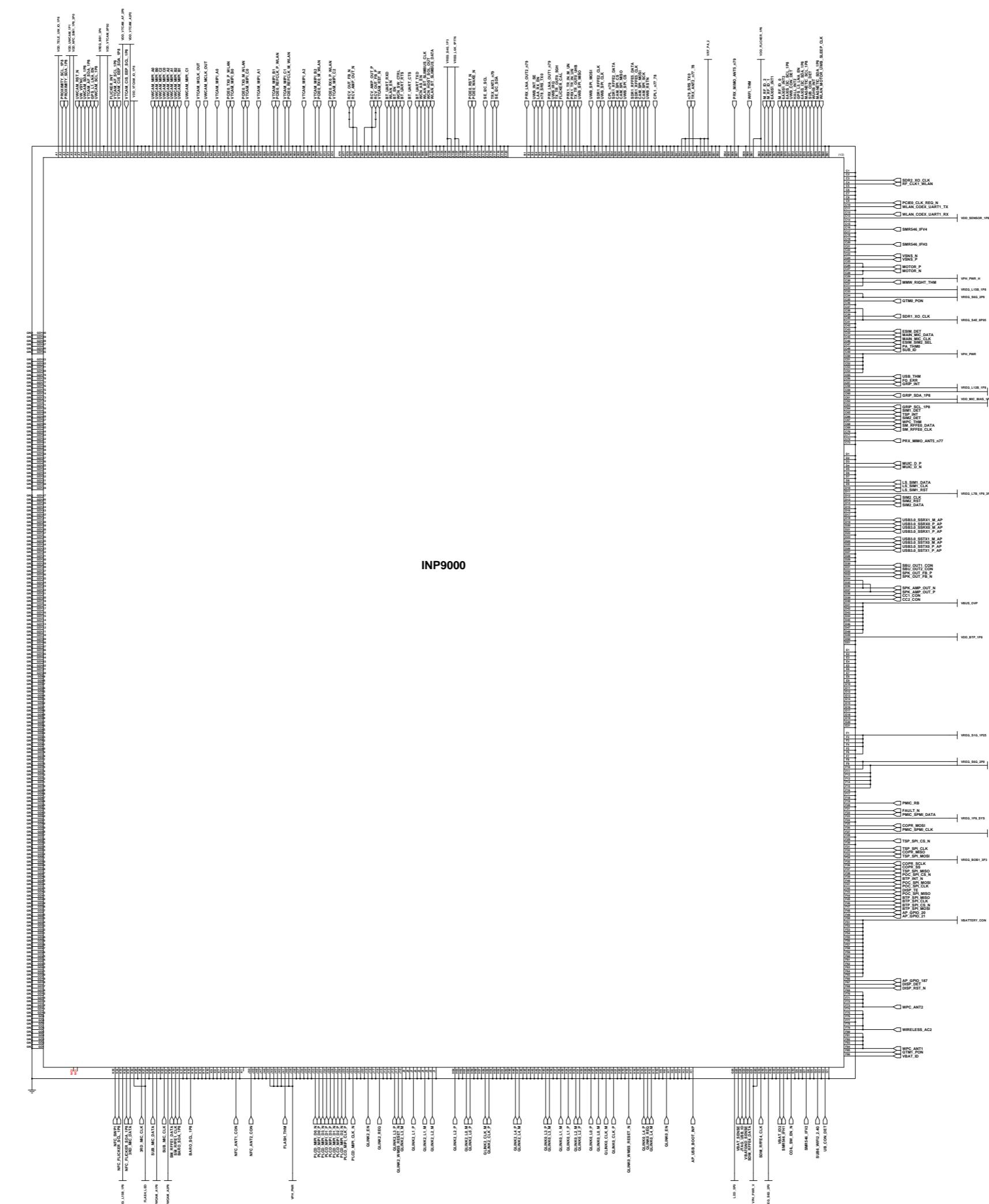
PMR735D #1

5G IFIC (SMR546)

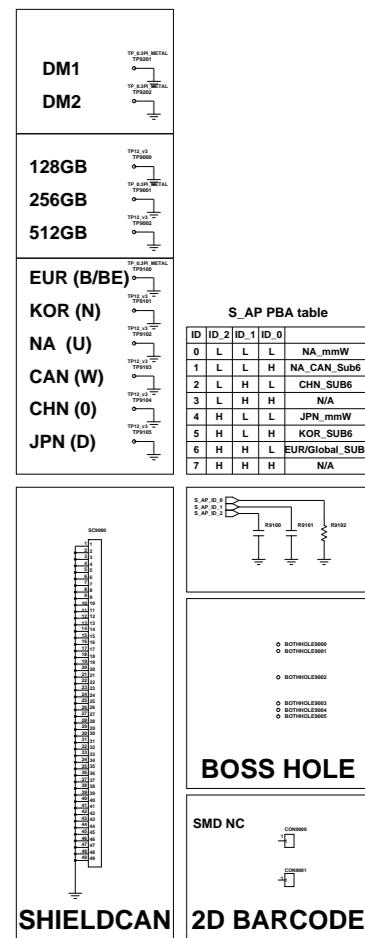
Radiation



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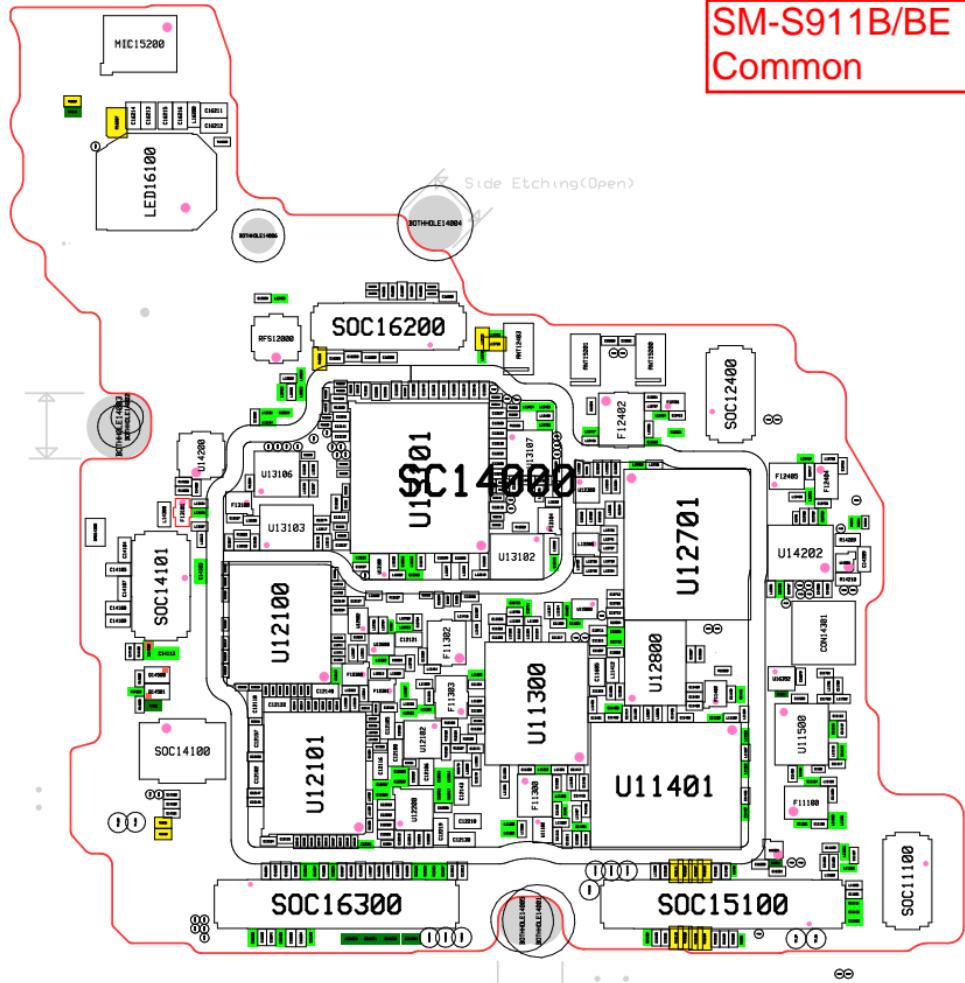


	R0	G0
GPIO_20	UB_DDI_3P0_EN	DISP_SDA_1P8
GPIO_21	UB_DDI_1P8_EN	DISP_SCL_1P8
GPIO_187	UB_DDR_1P6_EN	DISPLAY_PM_INT



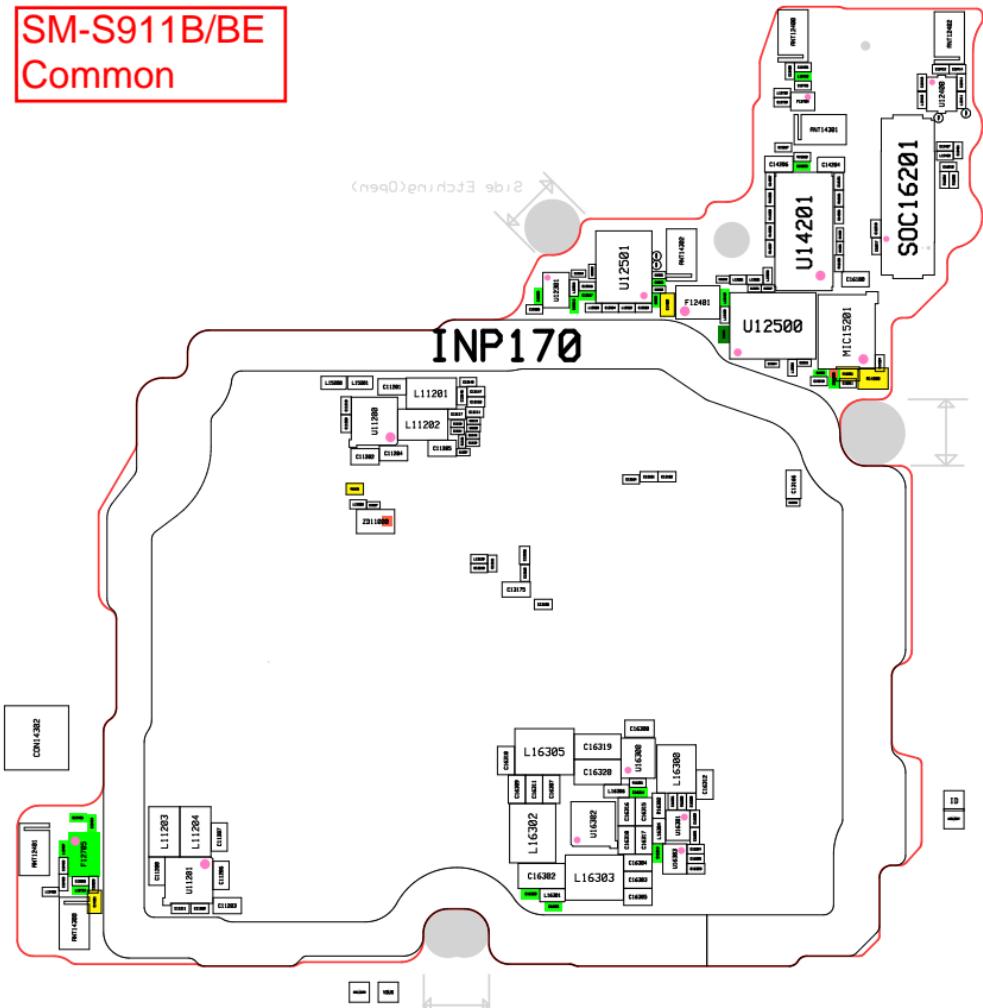
Engineer:	SAMSUNG
EC:	ELECTRONICS
Drawn by:	
SEC:	
R&D CHNk:	TITLE:
DOC CTRL CHNk:	
MFG ENGR CHNk:	INTPSR, SHIELDCAN

SM-S911B/BE
Common



SM-S911B/BE
Common

Created date of : 13B data : 2022, 10, 11, 11:50:13



SM-S911B M REV07

2022.10.19_SMD

SHEET01 : RF (1/2), FRC, ET, mmW CON

SHEET02 : RF (2/2), TRCV_SDR735, RF PMIC #1

SHEET03 : BT/WIFI

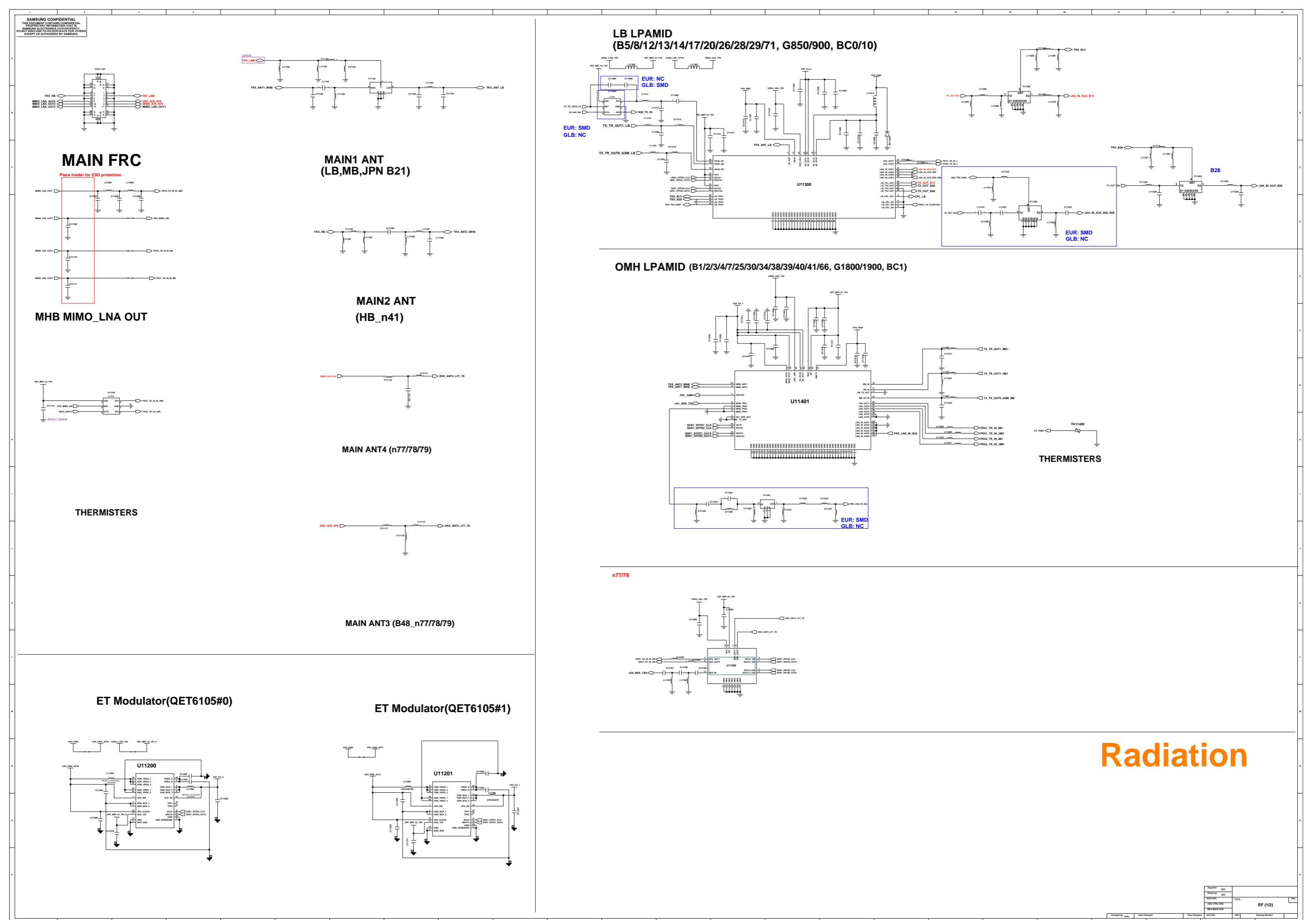
SHEET04 : BAT CON, W/C CON, SENSOR

SHEET05 : IF SUB CON, JTAG, RCV CON, MIC

SHEET06 : UW CAM CON, Front CAM CON, DISPLAY PMIC, DISPLAY CON

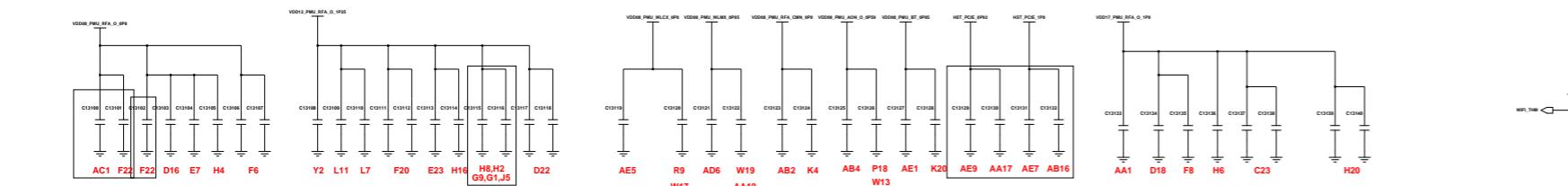
SHEET07 : INTERPOSER

Engineer:	
Drawn by:	
REQ CHK:	
DOC CTRL CHK:	
MPG ENGR CHK:	

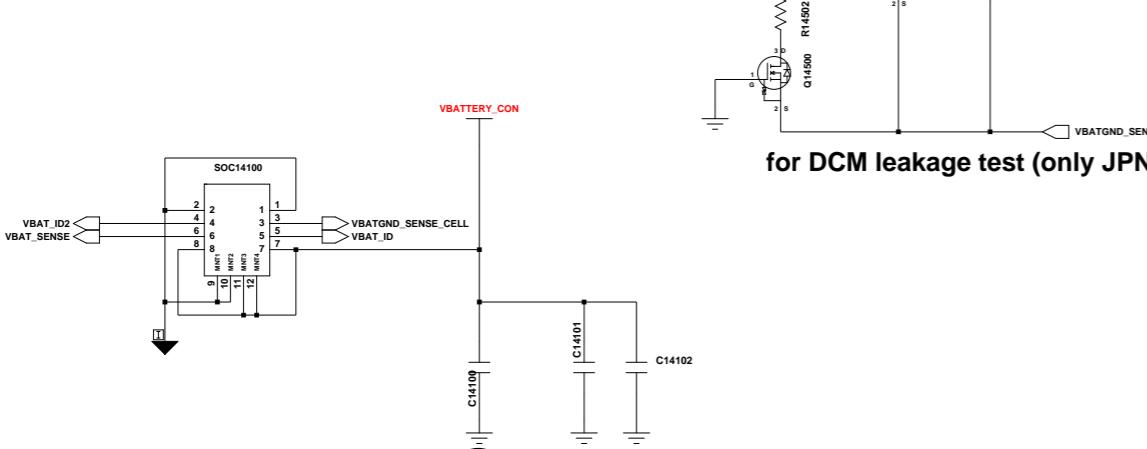


WIFI (WCN6856 CoB)

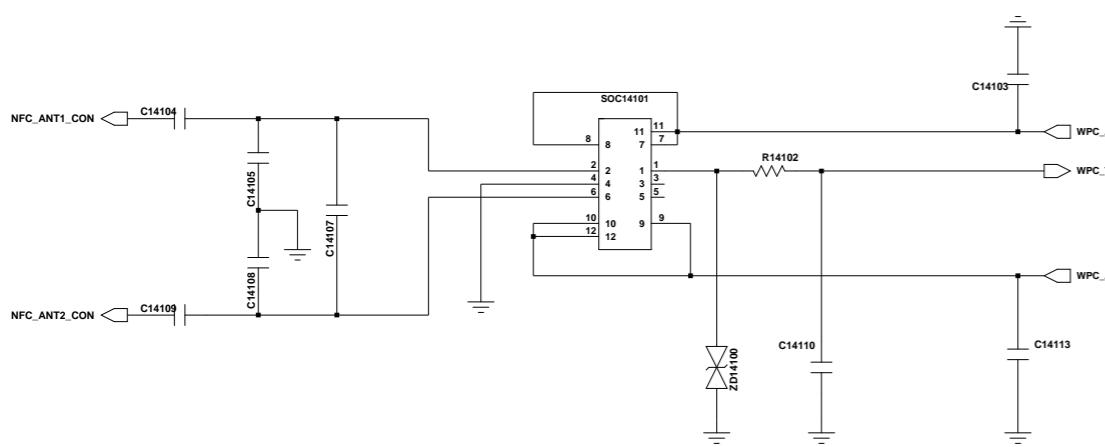
UWB



Power

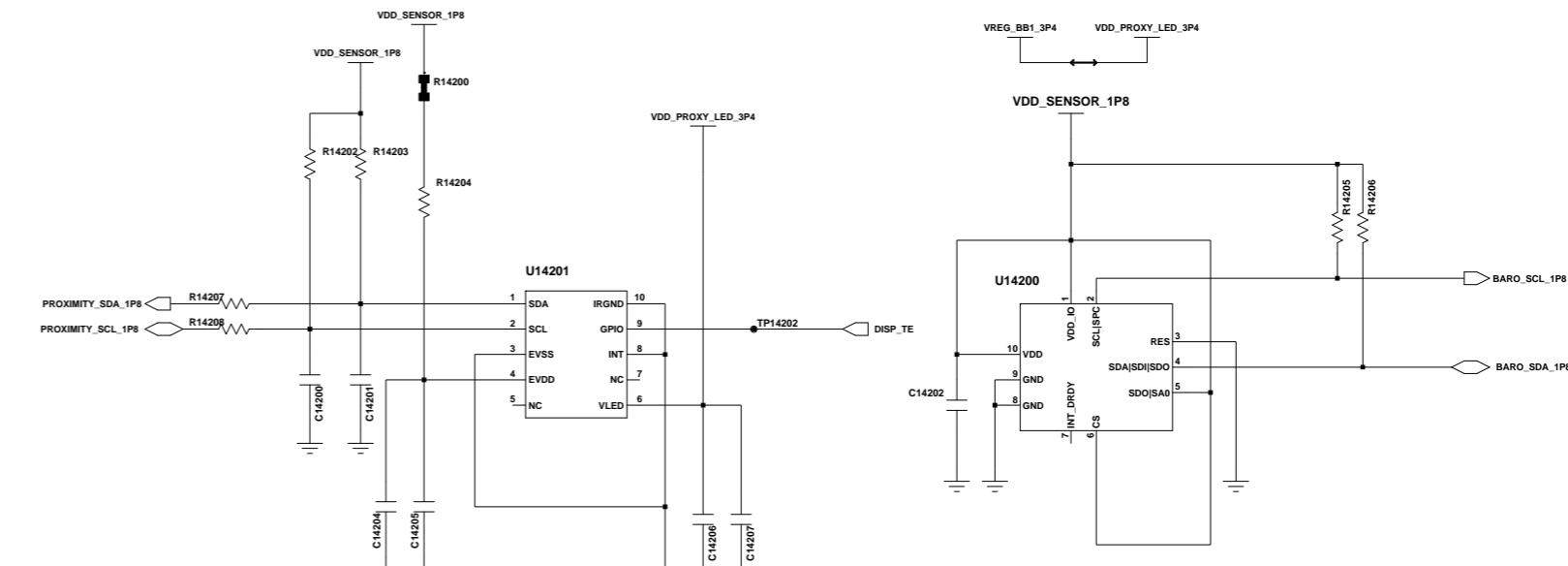


Battery Connector



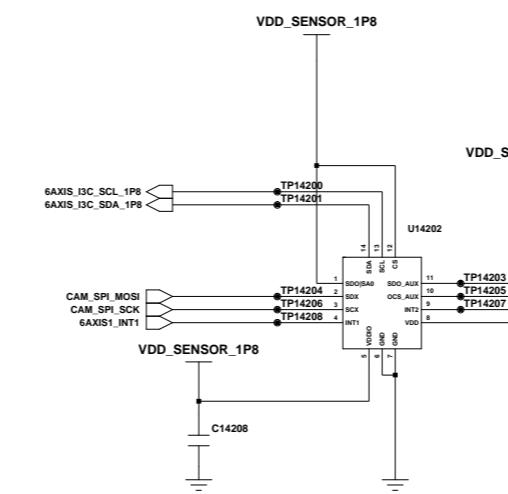
W/C CONNECTOR

MST SW

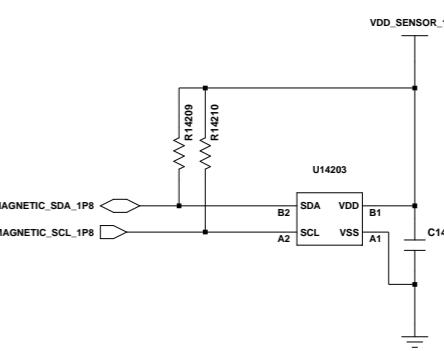


Proximeter/Ambient Light Sensor

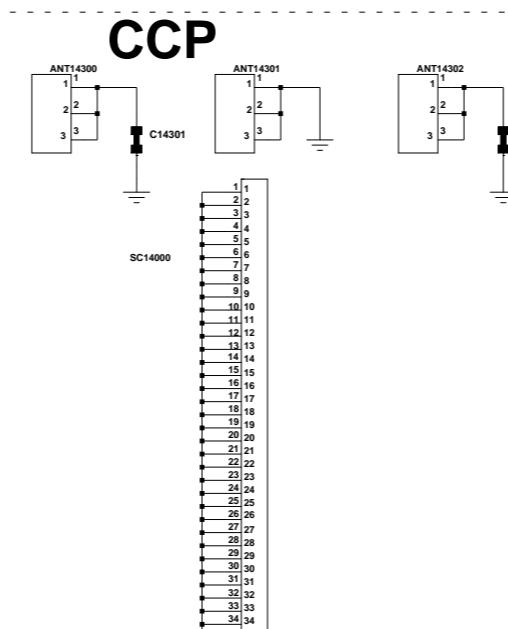
Barometer SENSOR



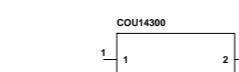
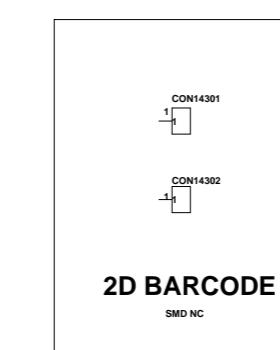
6 Axis SENSOR (GYRO,ACCEL)



Magnetic SENSOR



SHIELDCAN

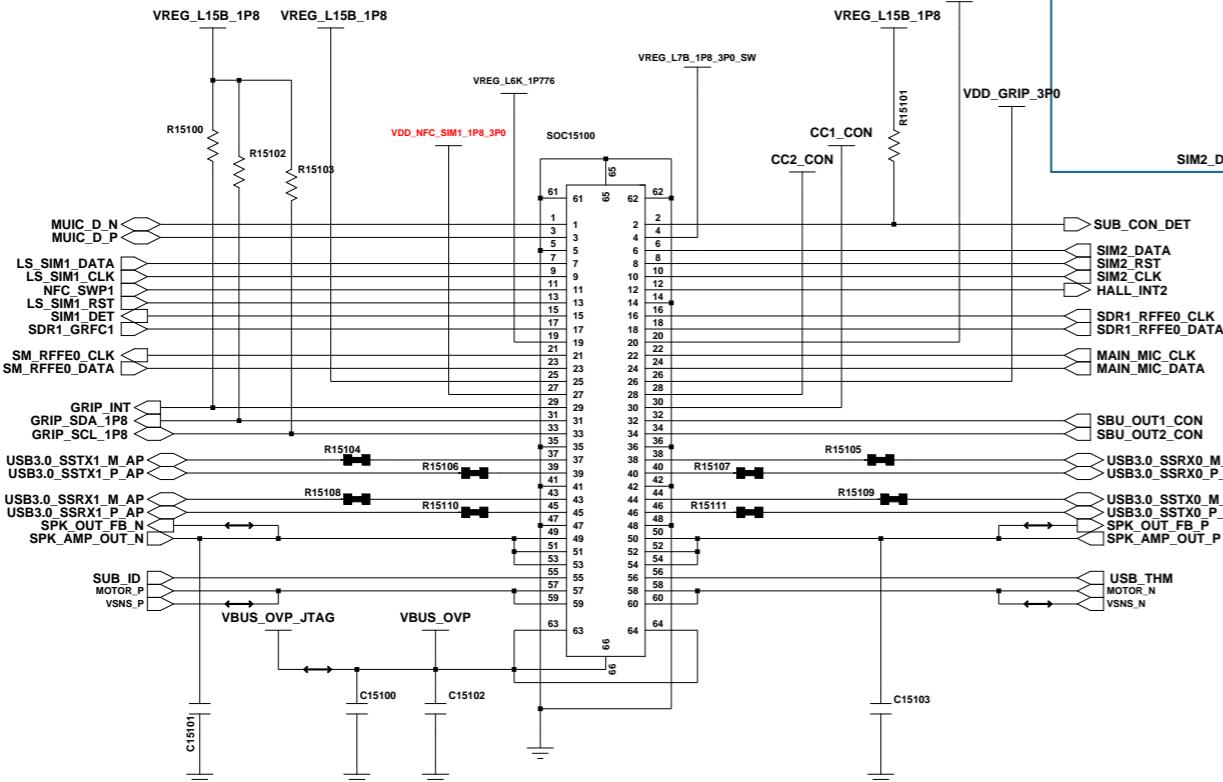


IVH-COUPON

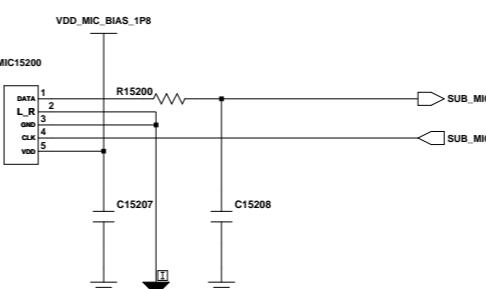
Engineer:	SAMSUNG ELECTRONICS		
Drawn by:	SEC		
R&D CHK:			
DOC CTRL CHK:		TITLE: DM1_R00_M_RF_220511_START	Size: 1218A
MFG ENGR CHK:			
Changed by: k100.kim	Date Changed: Tuesday, May 10, 2022	Time Changed: 5:58:13 pm	QA CHK: REV: Drawing Number: Page: 4

System

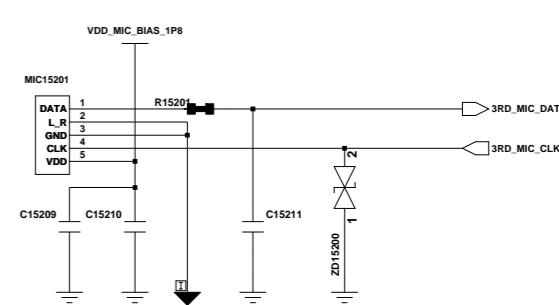
AUDIO



RCV Conn.



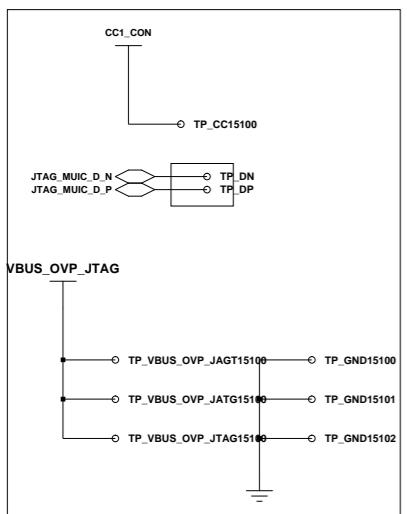
2nd MIC



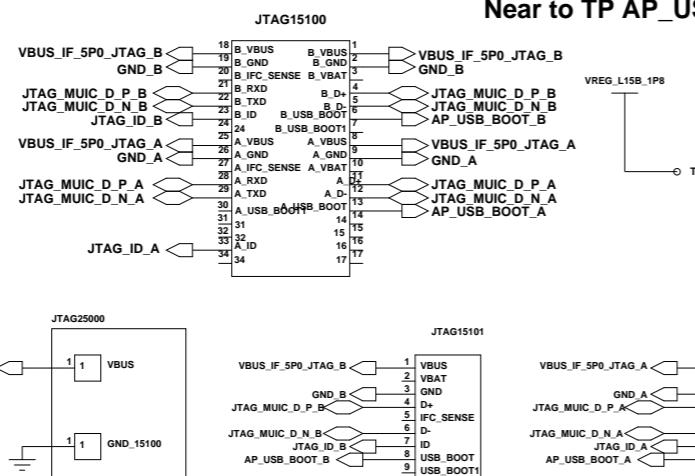
3rd MIC

IF SUB PBA Conn

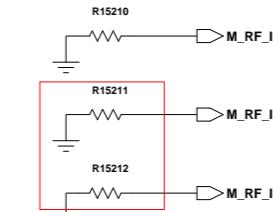
FOR JIG



CAUTION: PLACEMENT
Near to TP_AP_USB_BOOT



EUR (B)
GLB (BE)



M_RF PBA table

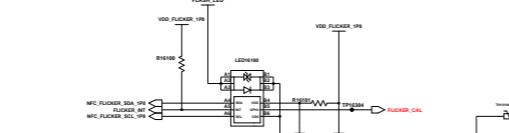
ID	ID_2	ID_1	ID_0	
0	L	L	L	NA_mmW
1	L	L	H	NA_CAN_Sub6
2	L	H	L	CHN_SUB6
3	L	H	H	Global_SUB6
4	H	L	L	JPN_mmW
5	H	L	H	KOR_SUB6
6	H	H	L	EUR_SUB6
7	H	H	H	N/A

PCB array JTAG



CAMERA

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Flash & Flicker sens

CAM PMIC (PB02)



Wide CA

Tele C



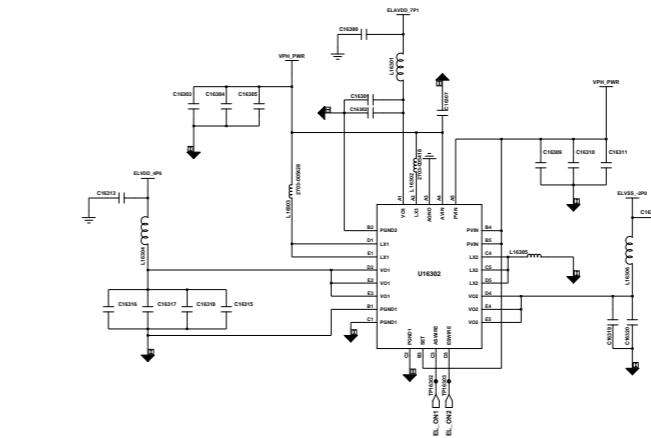
The diagram shows three power supply pins: VDD_UWCAM_A2P8, VDD_TELE_UW_IO_1P8, and VDD_UWCAM_1P1. Each pin is connected to a common internal node via a vertical line. This node is then connected to a horizontal ground rail at the bottom of the diagram.



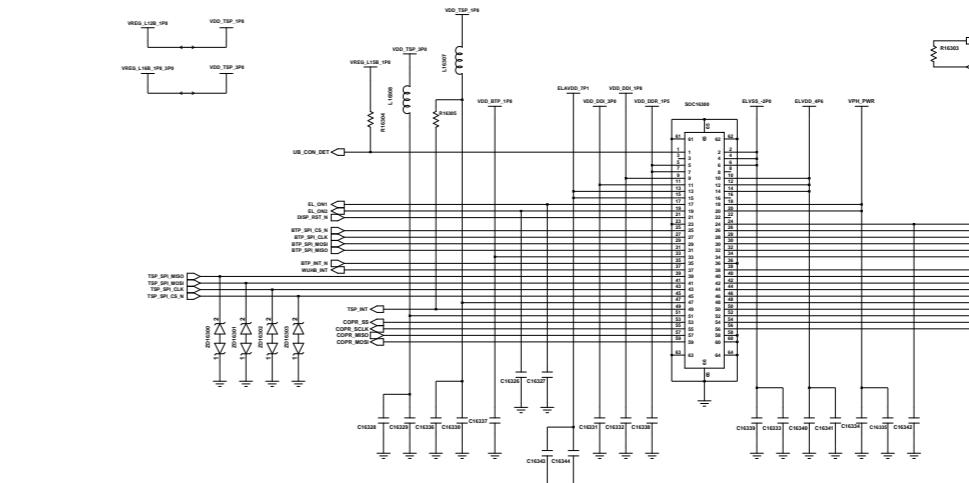
FRONT C

CAM MC

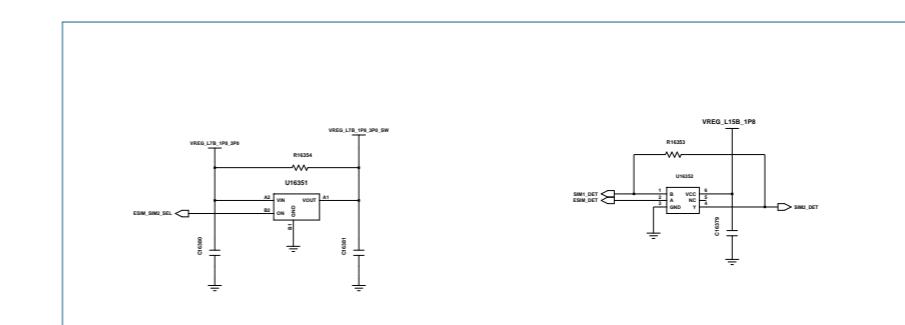
DISPLAY



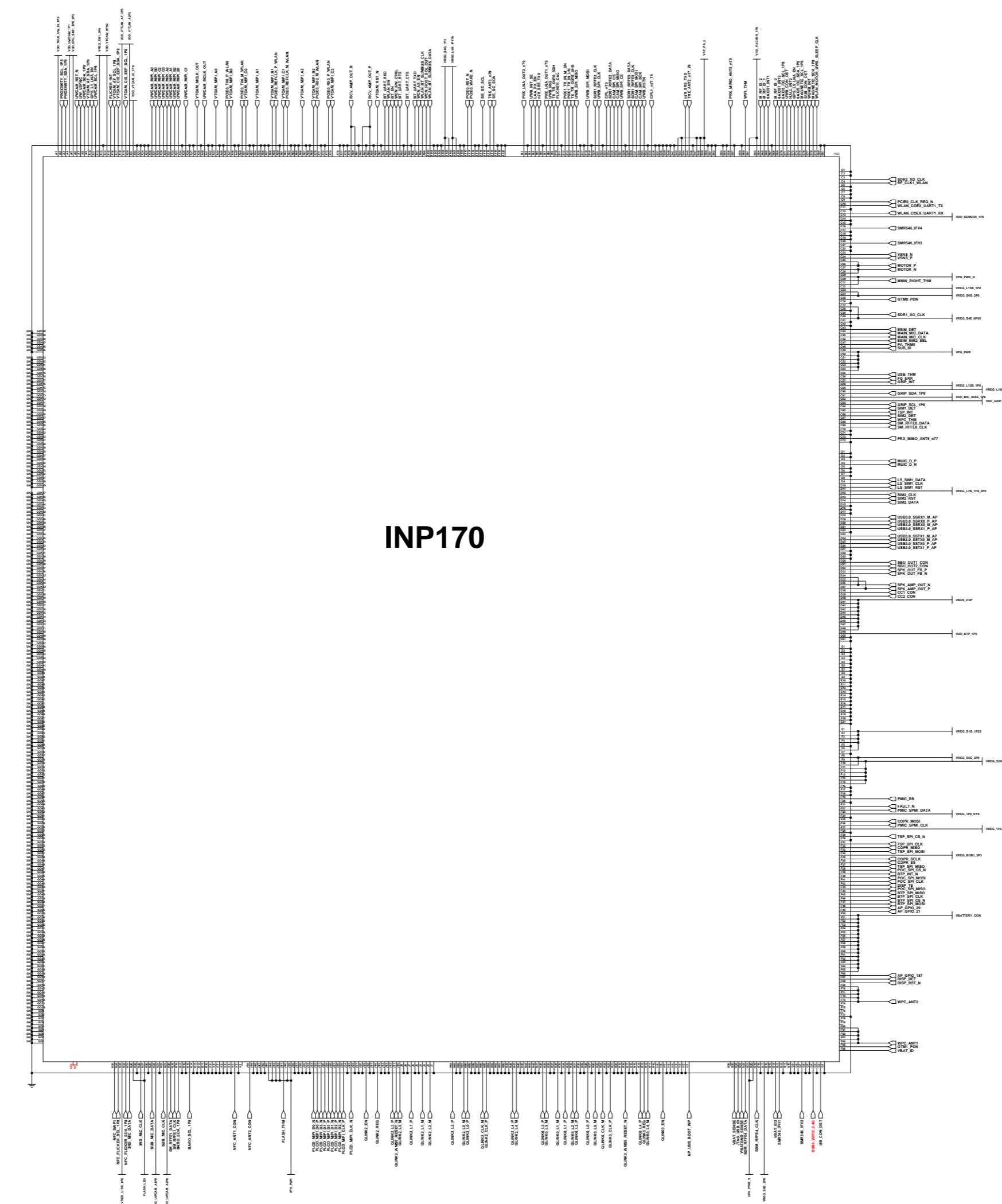
DISPLAY PMIC (SM3010)



DISPLAY CONNECTOR



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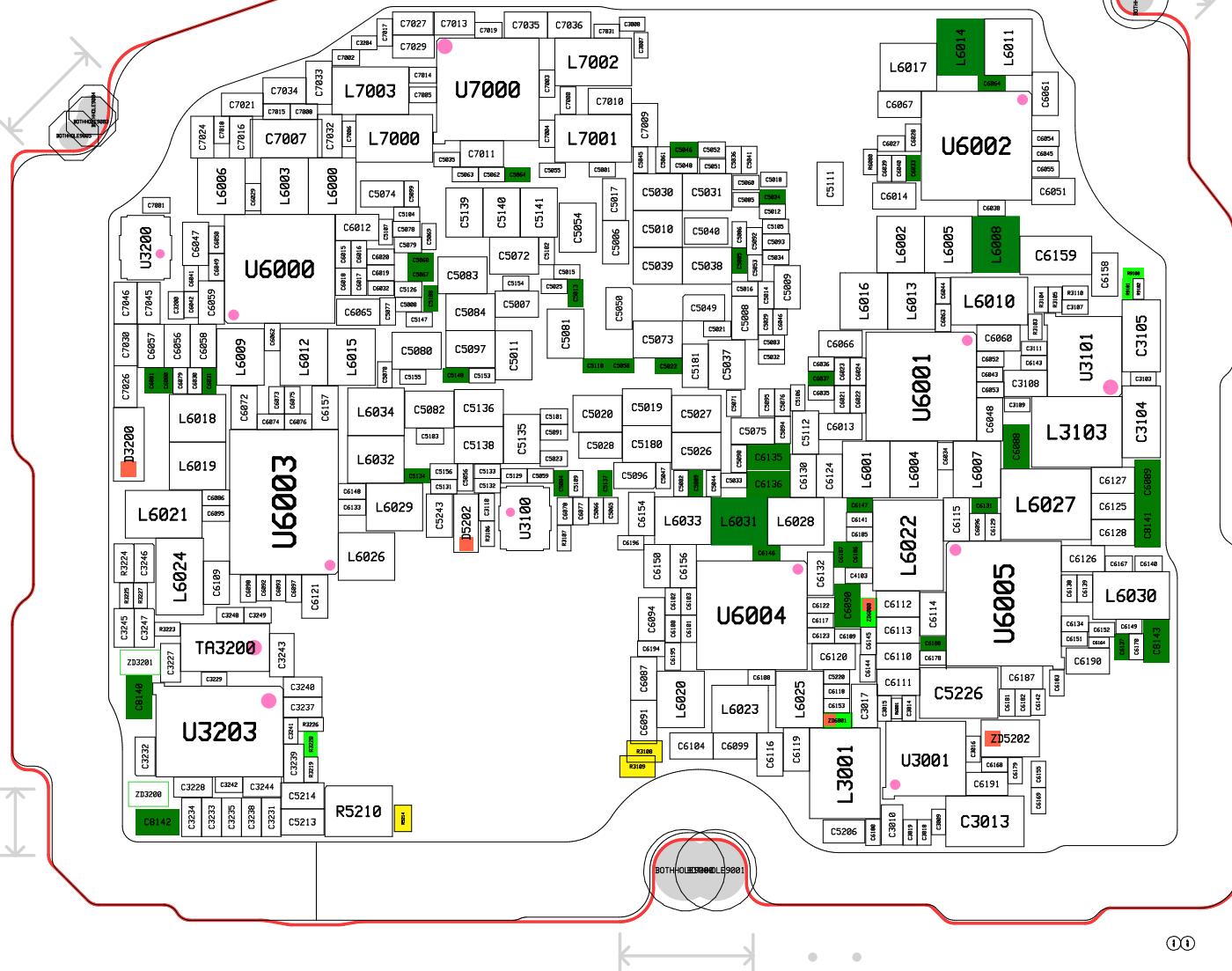
INP170

	R0	G0
GPIO_20	UB_DDI_3P0_EN	DISP_SDA_1P8
GPIO_21	UB_DDI_1P8_EN	DISP_SCL_1P8
GPIO_187	UB_DDR_1P6_EN	DISPLAY_PM_INT

SM-S911B/BE
Common

CON9000

INP9000



SM-S911B/BE
Common

SC9000

U1001

U1002

UCP400

UME4100

SOC7000

SOC7001

CON9001

HDC4000

U5202

U8100

U5200

R3217

R3218

TA3202

U3201

U7009

U3202

L3201

L3202

C3201

C3202

C3203

C3204

C3205

C3206

C3207

C3208

C3209

C3210

C3211

C3212

C3213

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C3294

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C3296

C3297

C3298

C3299

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C3201

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C3203

C3204

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C3219

C3220

C3221

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C3227

C3228

DM1 IFSUB PBA REV0.7

sheet01 : AN

sheet02 : LOGI

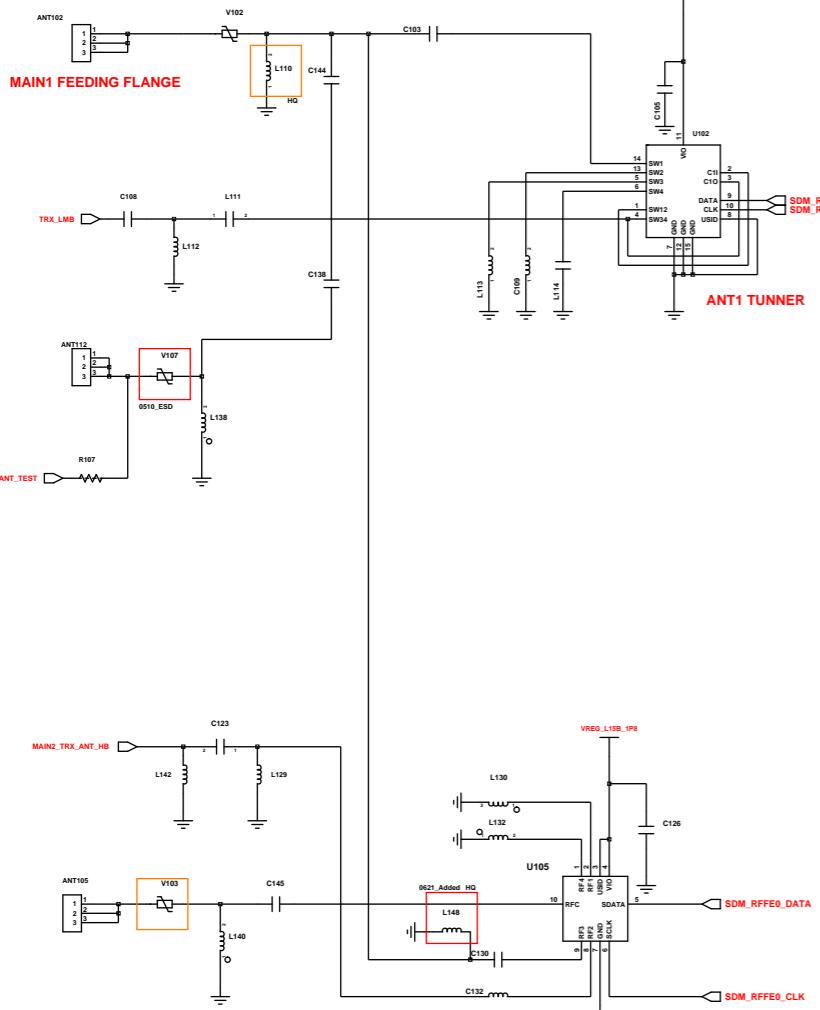
2022 . 09. 28.

Engineer:			
Drawn by:			
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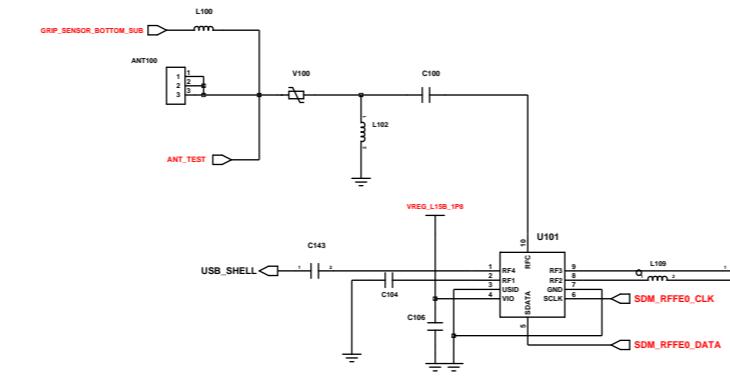
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MAIN ANT

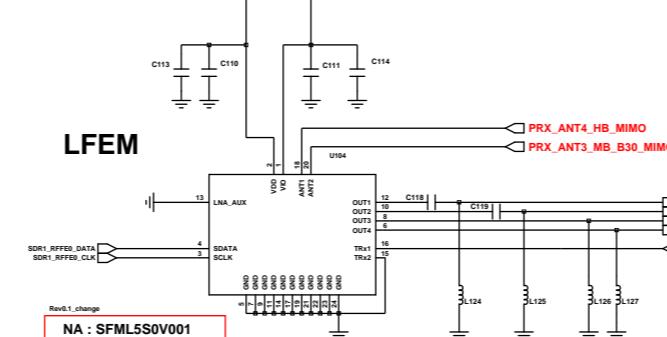
**MAIN ANT1-1 LB/MB
(GSM LB/MB, B1/2/3/4/5/8/12/13/17/18/19/20/25/26/
TDD 34/39)**



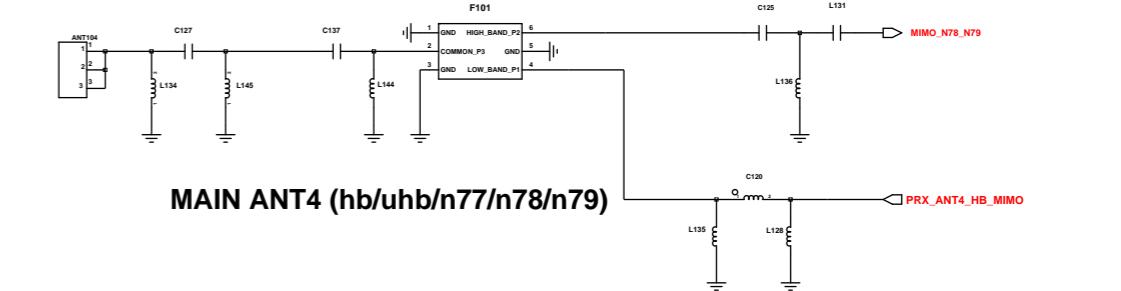
MAIN ANT2(HB/n77/n78)



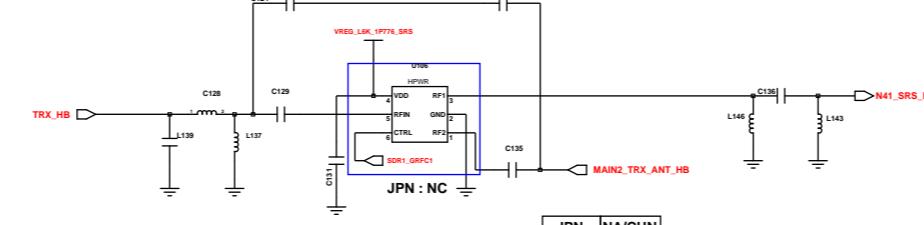
LOWER MAIN X GND S



MAIN ANT3 (mb/b30/uhb/n77/n78/n79)



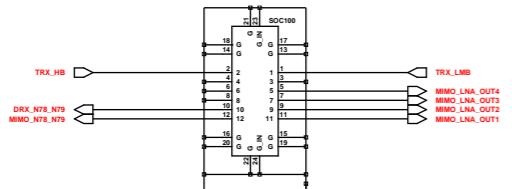
MAIN ANT4 (hb/uhb/n77/n78/n79)



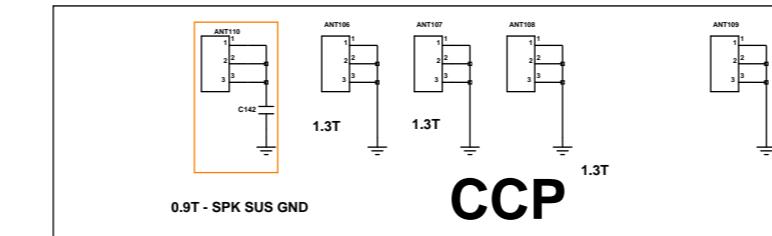
N41 SI

	JPN	NA
U106	NC	MXD
C129	NC	10pF
C135	NC	10pF
C131	NC	10pF
C124	100pF	M
C121	100pF	M

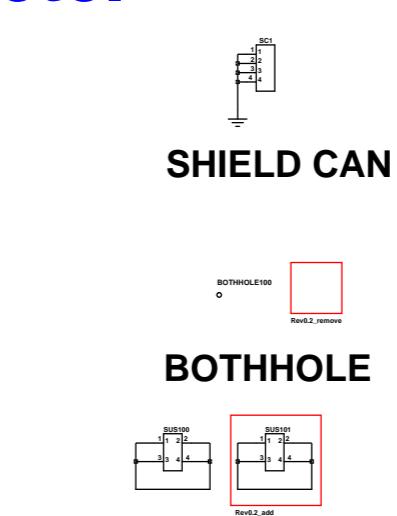
FRC CON



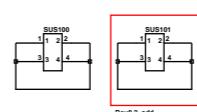
RF Connector



CCR



BOTHHOLE

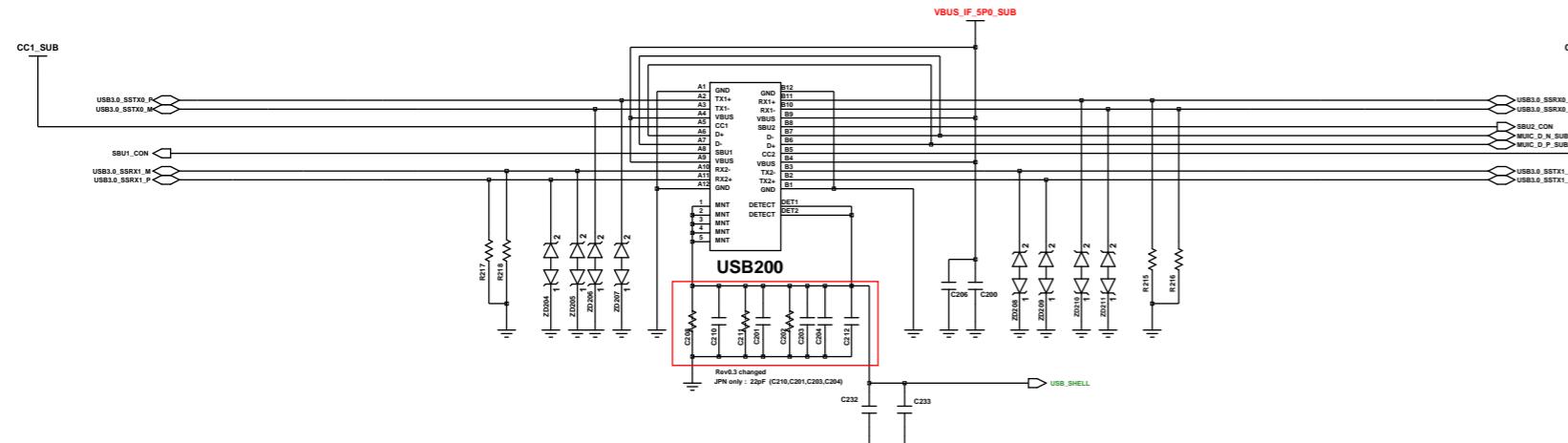


SCREW SUS



INSIK MARK

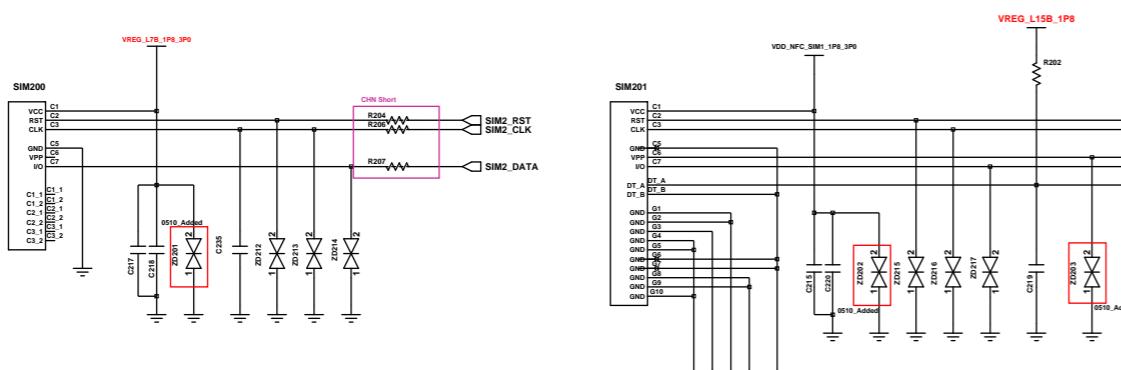
USB / SIM



USB TYPE C CONNECTOR

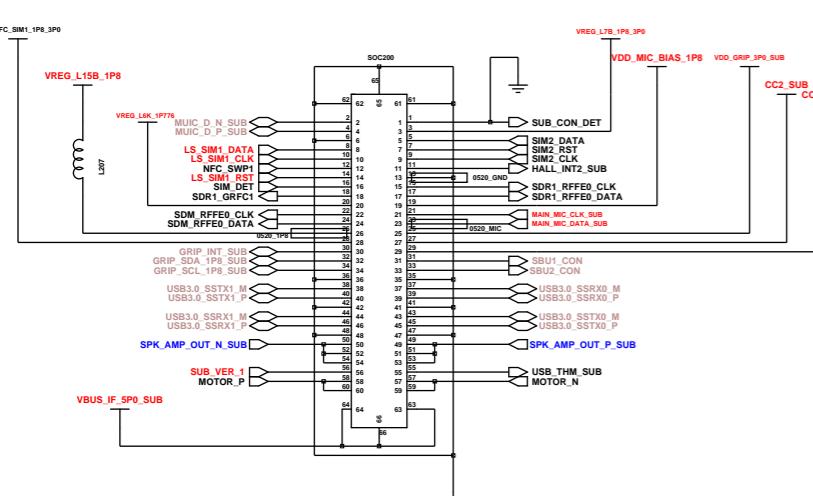
Deep Drawing

Deep Drawing



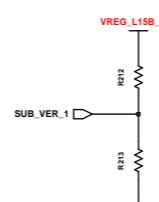
Stacked Dual SIM SOCKET

BtoB CON



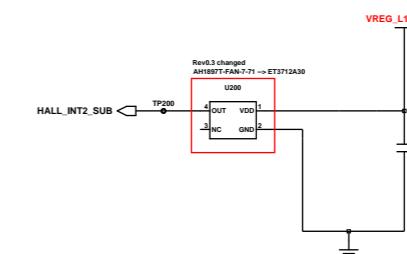
SUB PCB IF CONNECTOR

SUB VERSION

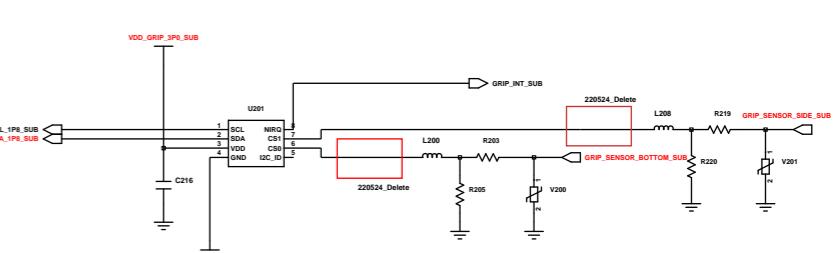


ADC RANGE	TYPICAL VALUE	ID	EXT_PU	EXT_PD	DM1
0 ~ 300	0	8	NC	332K, 1%	EUR_Sub6_Global_Sub6
301 ~ 600	480	0	332K, 1%	120K, 1%	NA_mmW NA_CAN_Sub6
601 ~ 900	720	4	270K, 1%	180K, 1%	CHN_Sub6
901 ~ 1200	1080	5	180K, 1%	270K, 1%	KOR_Sub6_RC
1201 ~ 1400	1320	6	120K, 1%	332K, 1%	JPN_mmW
1401 ~ 1530	1480	7	100K, 1%	470K, 1%	Global_Sub6_R

SENSOR

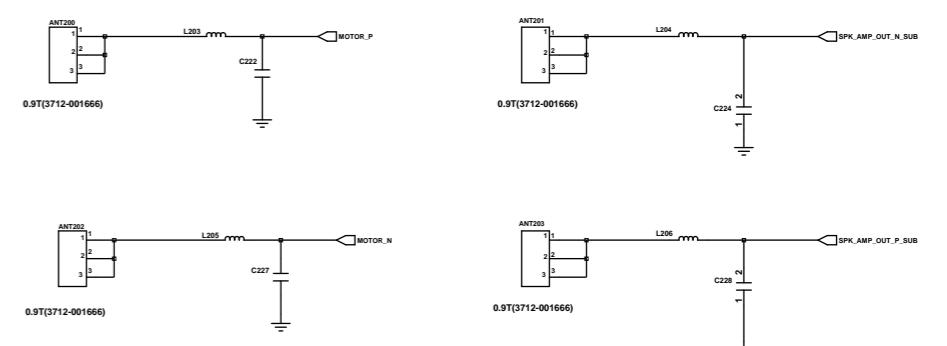


HALL SENSOR



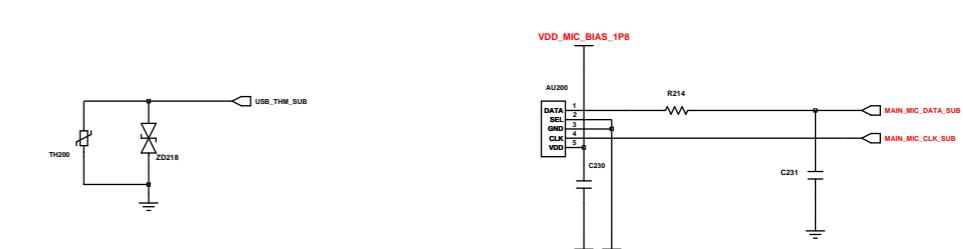
GRIP SENSOR

AUDIO



MOTOR conn.

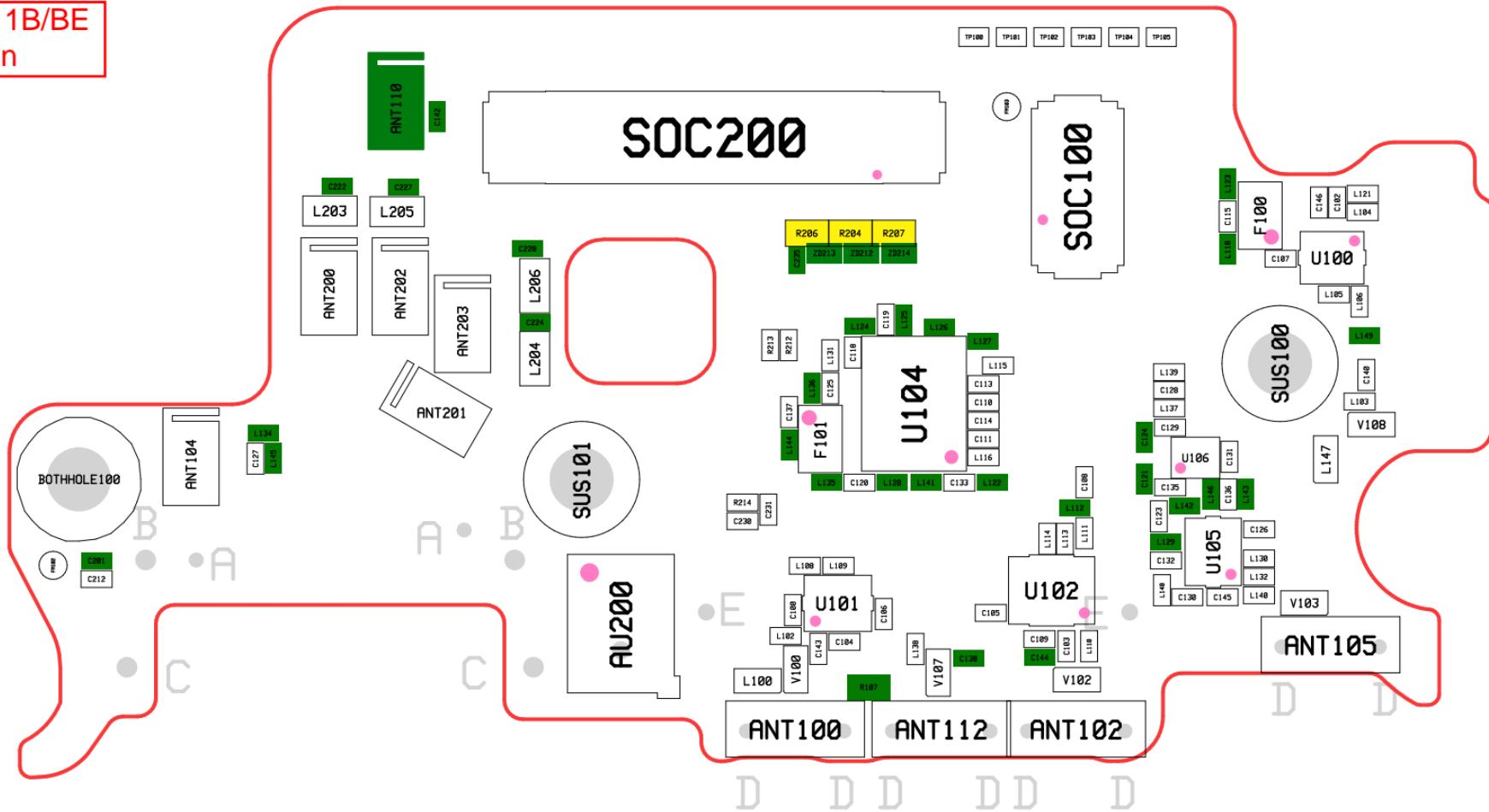
SPK CONTACT



USB/BATTERY THERMISTOR

MAIN MIC

SM-S911B/BE
Common



SM-S911B/BE
Common

