

# SM-S911B\_S916B\_SREV0.7

SM-S911B/BE  
Common

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

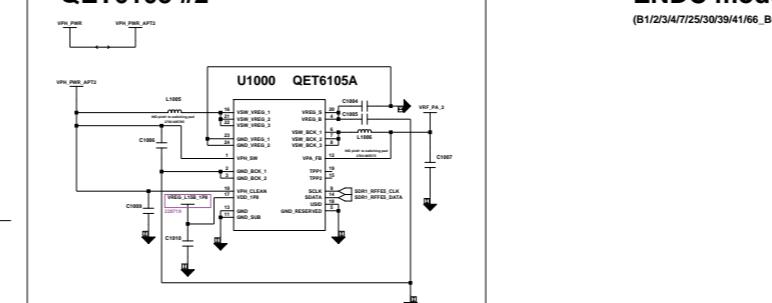
DRX\_LB

(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

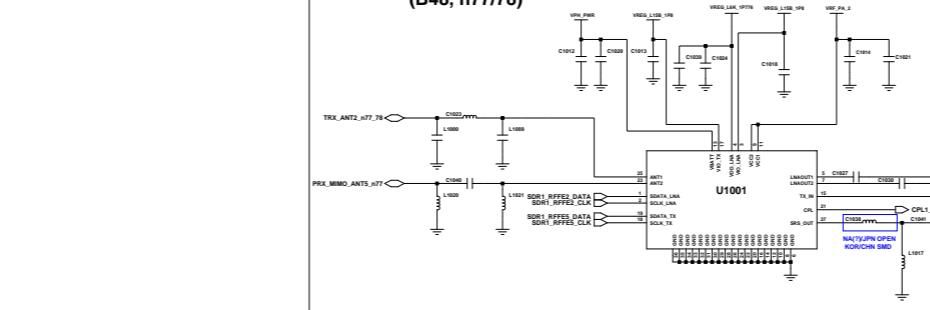
(B1/2/3/4/7/25/30/39/41/66\_BC1\_DCS/PCS)

PMR735D #0

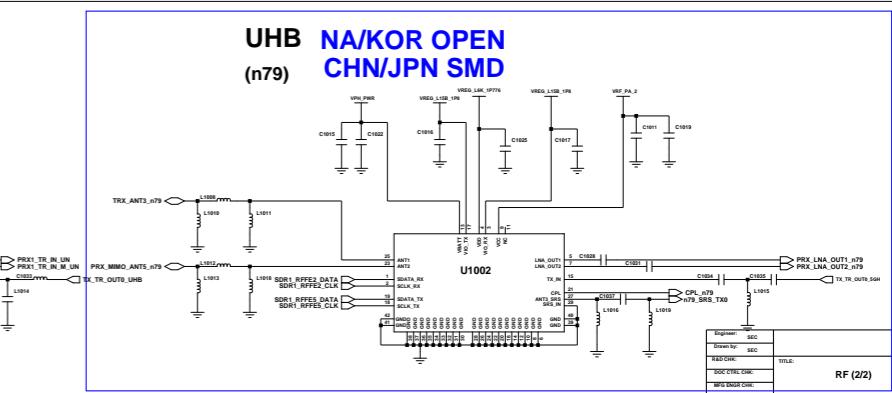
GPS\_L1(for SUB4 opt)

GPS\_L5

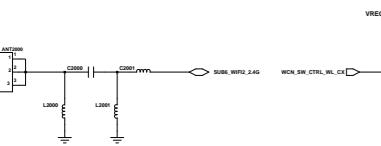
UHB  
(B48, n77/78)

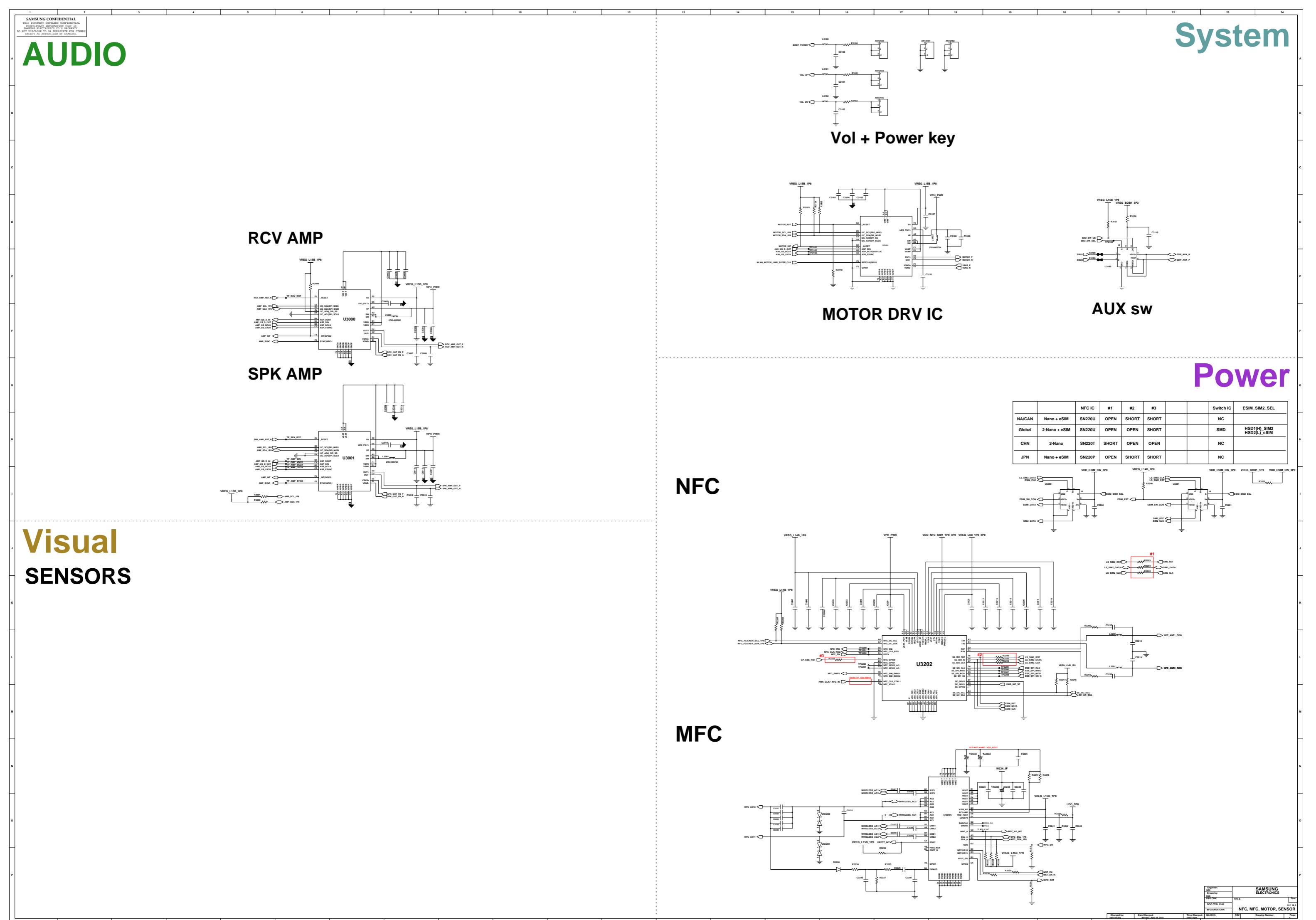


UHB NA/KOR OPEN  
CHN/JPN SMD  
(n79)



# WIFI (WCN7851 CoB)

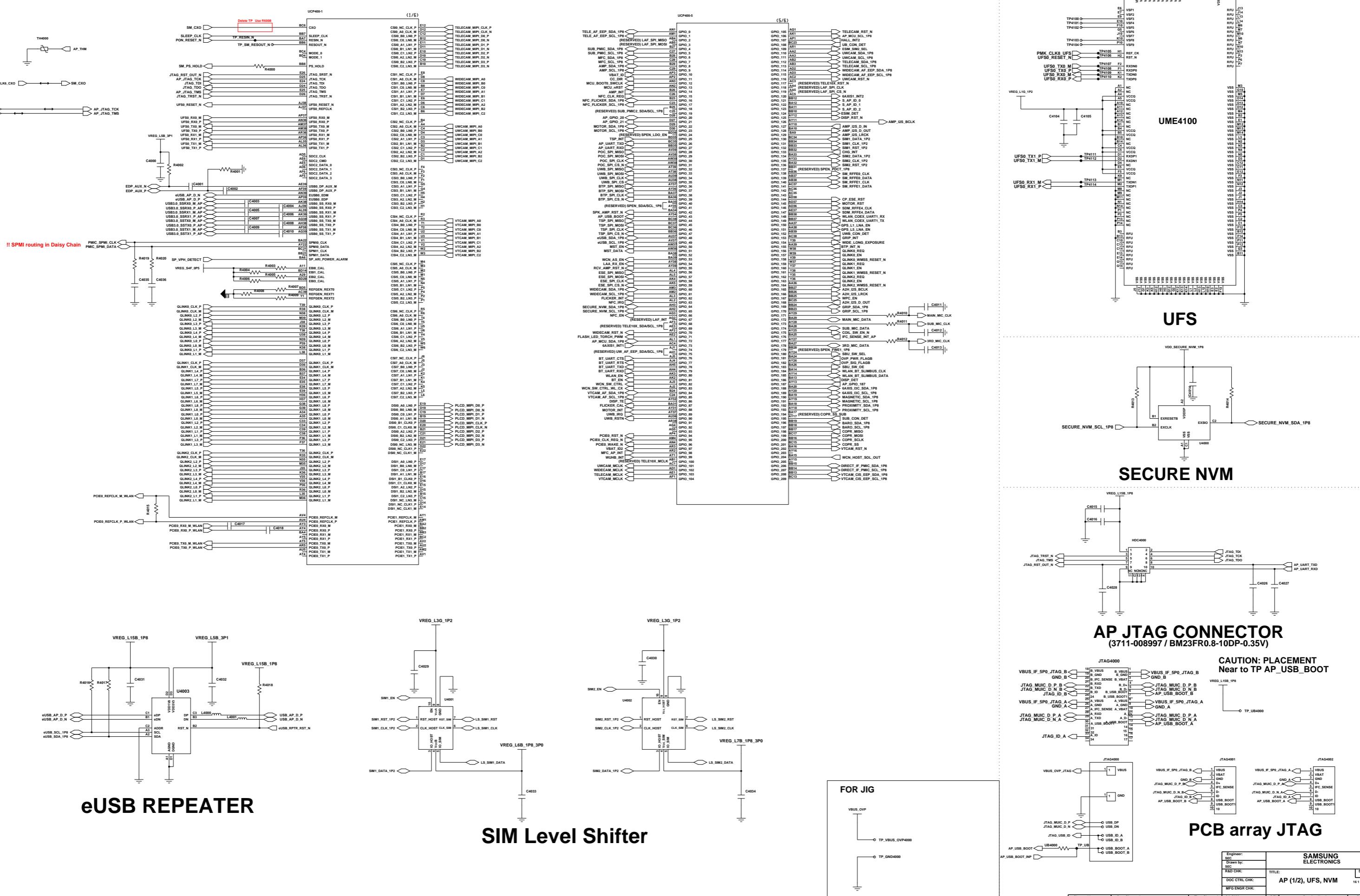




**SAMSUNG CONFIDENTIAL**  
THIS DOCUMENT CONTAINS CONFIDENTIAL  
PROPRIETARY INFORMATION THAT IS  
SAMSUNG ELECTRONICS CO.'S PROPERTY.  
NOT DISCLOSE TO OR DUPLICATE FOR OTHERS  
EXCEPT AS AUTHORIZED BY SAMSUNG.

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

# System

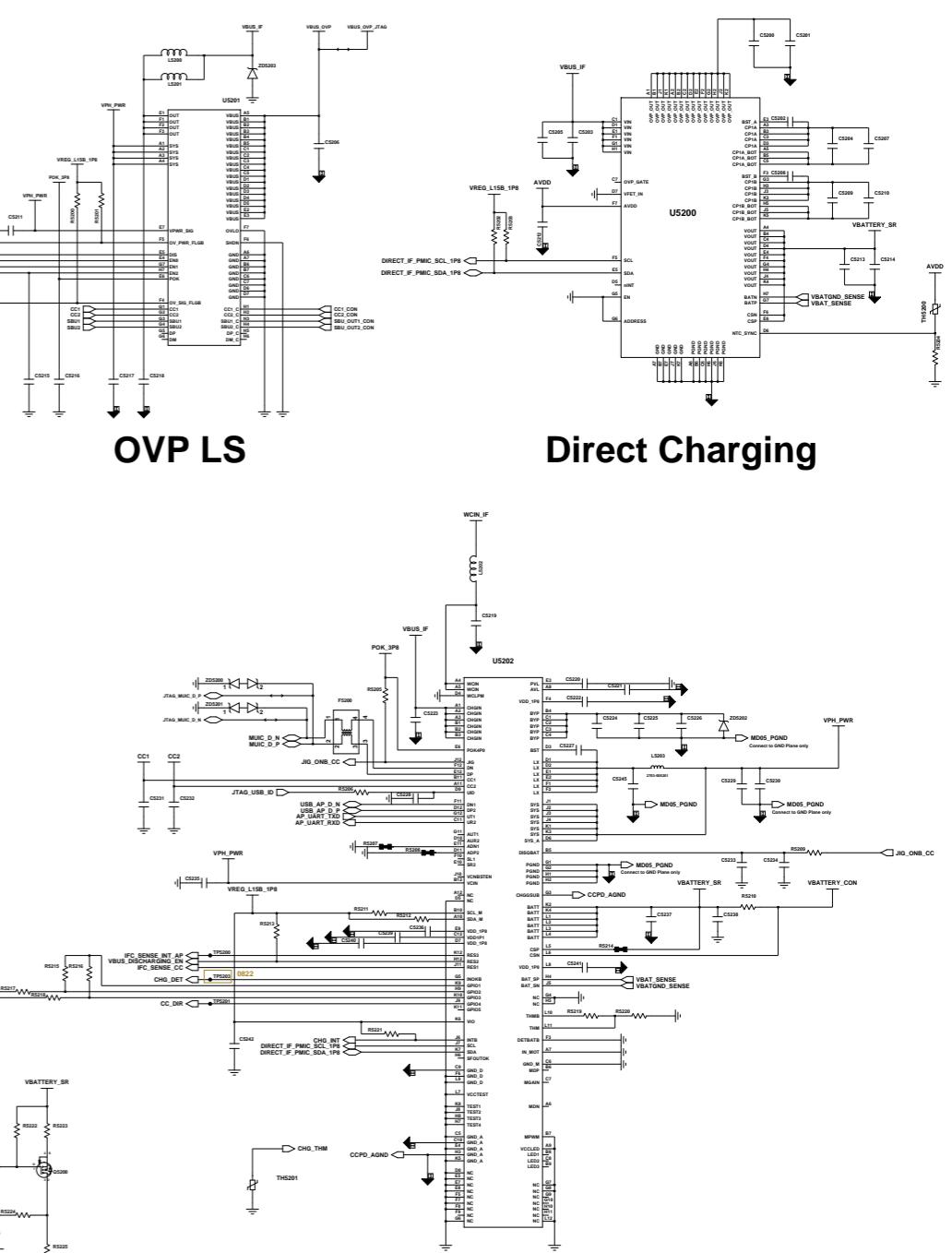
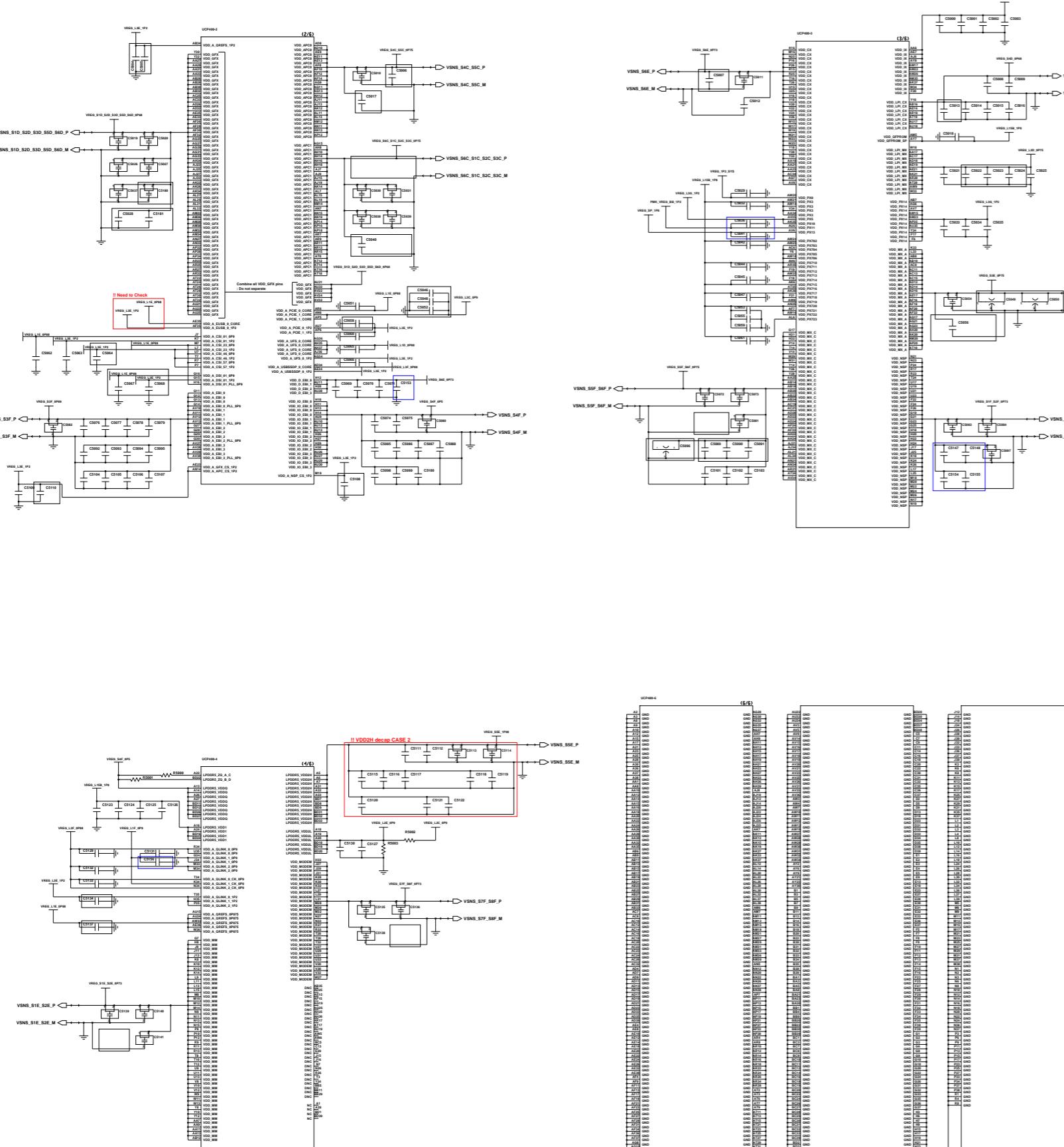


# SM8550 (2/2) (POWER decap, GND)

# Power

# Charger block

# Power

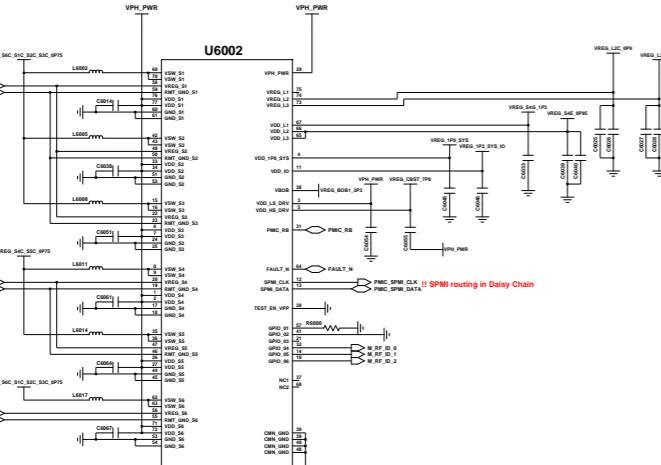


IF PMIC

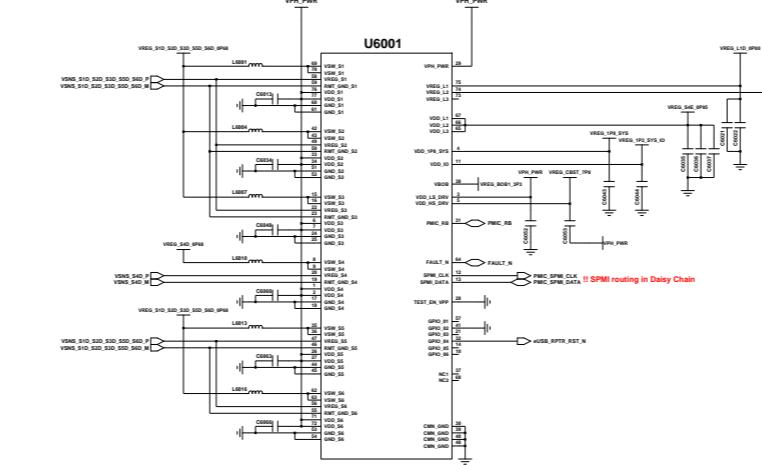
# PM8550VS, PM8550VE

**!! CAUT**

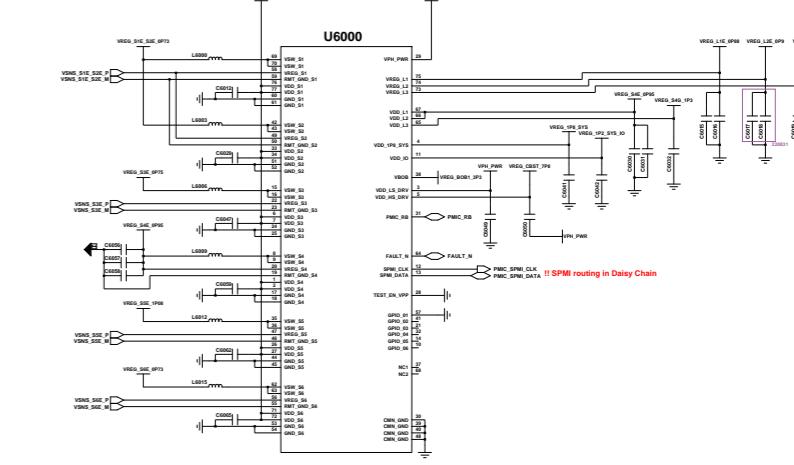
Place Cin 10uF Bulk Caps at corner of PM8550VS and PM8550VE as close as possible  
- PM8550VS : VDD\_S1, S3, S4, S6  
- PM8550VE : VDD\_S1, S4, S5, S8



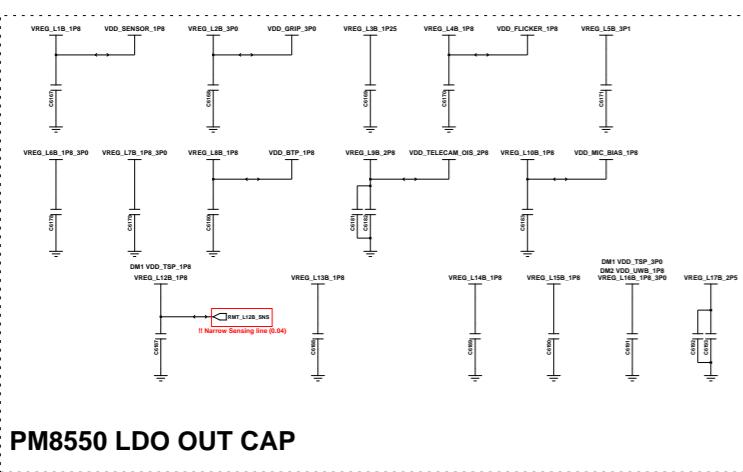
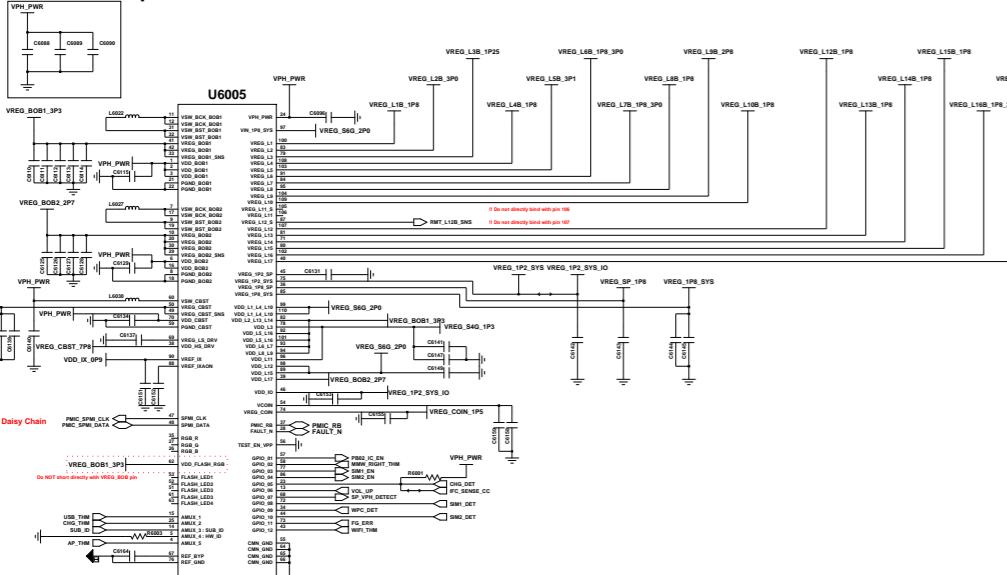
PM8550VS\_C



**PM8550VS\_**

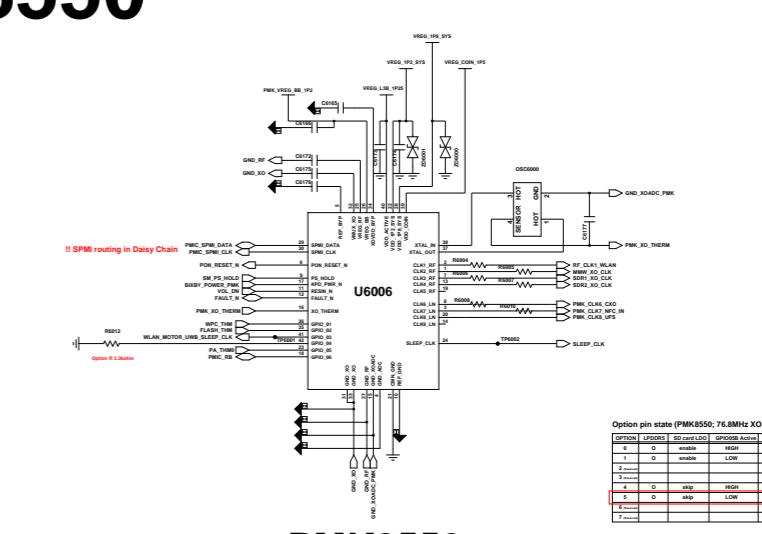


PM8550VS\_E



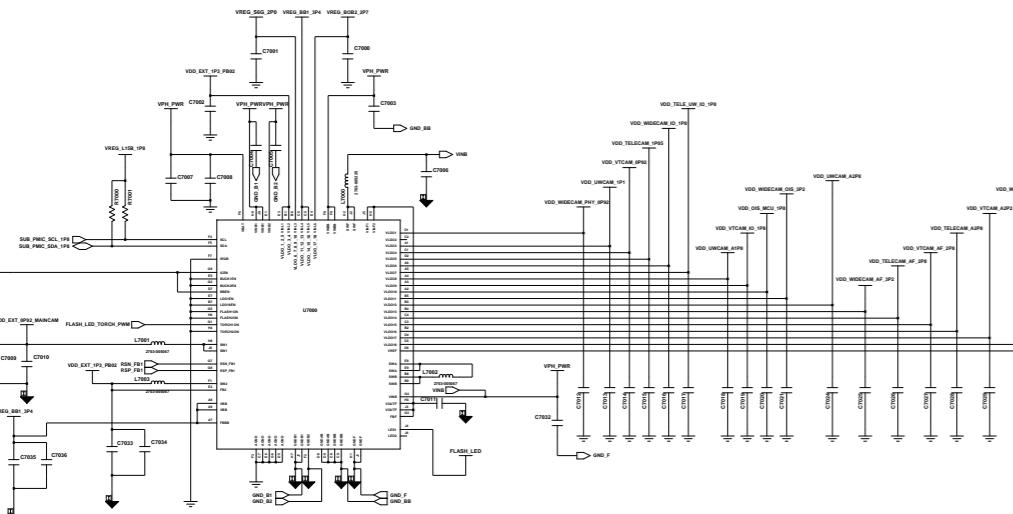
H/W ID table (PM8550 AMU)		
HW ID	BOARD REVISION	Value
00	SM8550 SW bring-up A-Type	6.04K
01	SM-S911U / 916U REV0.0	9.1K
02	SM-S911U / 916U REV0.1	12.4K
03	SM-S911U / 916U REV0.2 (ESv1)	18K
04	SM-S911U / 916U REV0.2 (ESv2)	22K
05	SM-S911U / 916U REV0.3 (ESv2)	30K
06	SM-S911U / 916U REV0.4	39K
07	SM-S916U 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**



QHD

# CAMERA



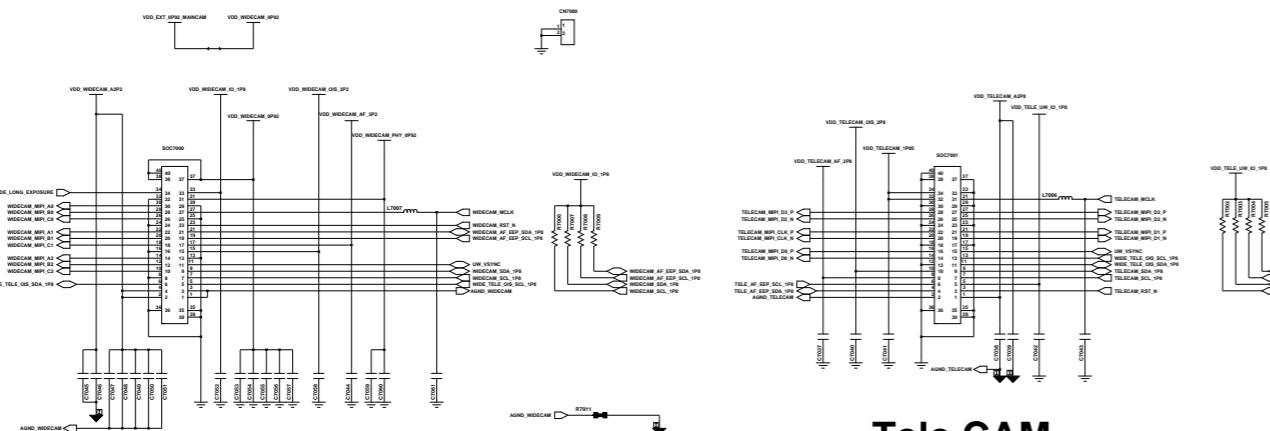
**CAM PMIC (PB02)**

# Visual

# DISPLAY

# Visual

**Flash & Flicker sensor**



**Tele CAM**

**Wide CAM**

**DISPLAY CONNECTOR**

**System**

**ULTRA WIDE CAM**

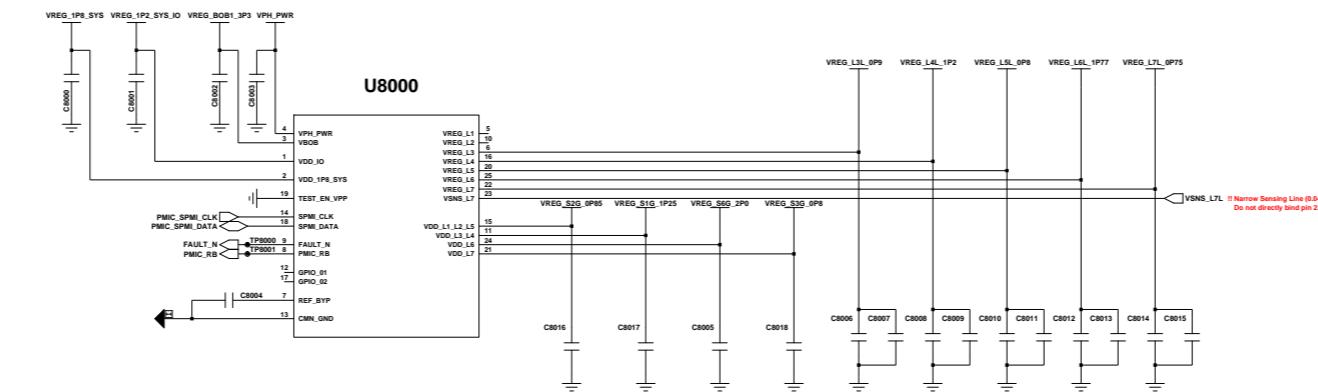
**FRONT CAM**



**CAM MCU**

**IF SUB PBA Conn**

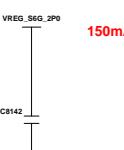
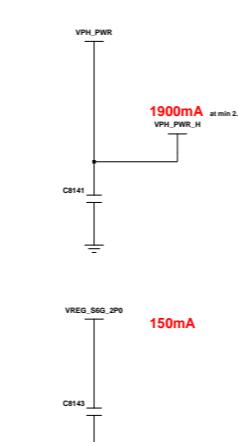
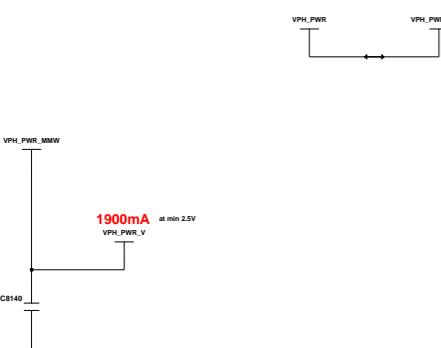
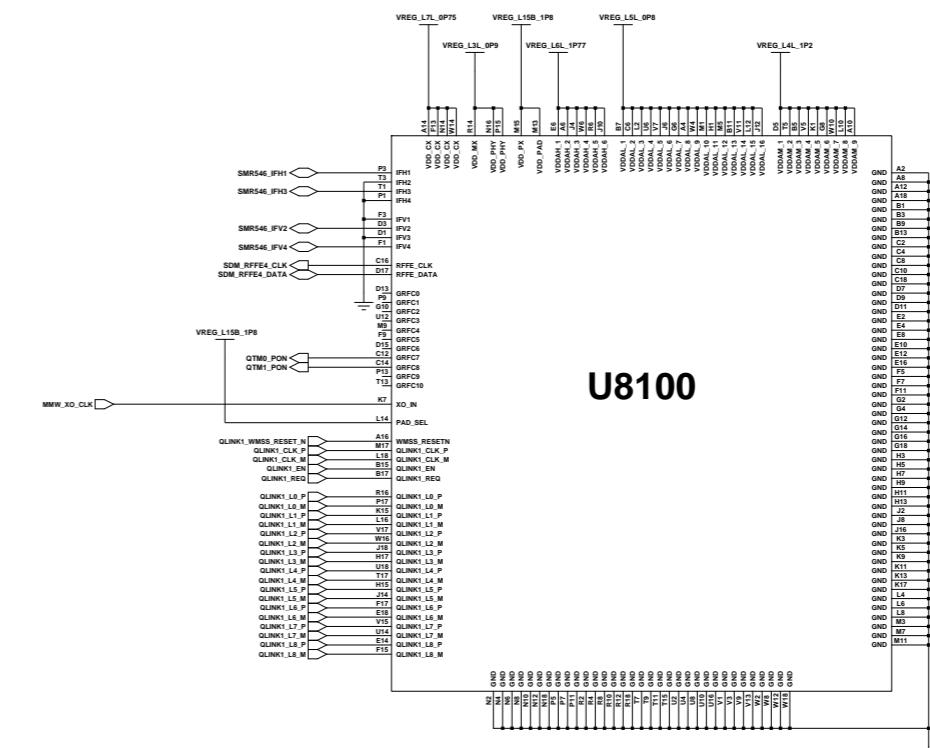
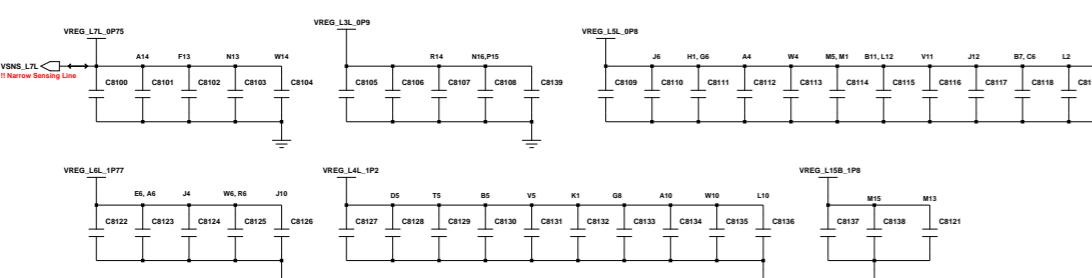
SAMSUNG ELECTRONICS	
Engineer:	
Brown Off:	
RED CDR:	
DOC CDR:	
MRG DESIGN:	
MRG DESIGN CDR:	
DATE:	2014-04-21
CAMERA, DISPLAY	



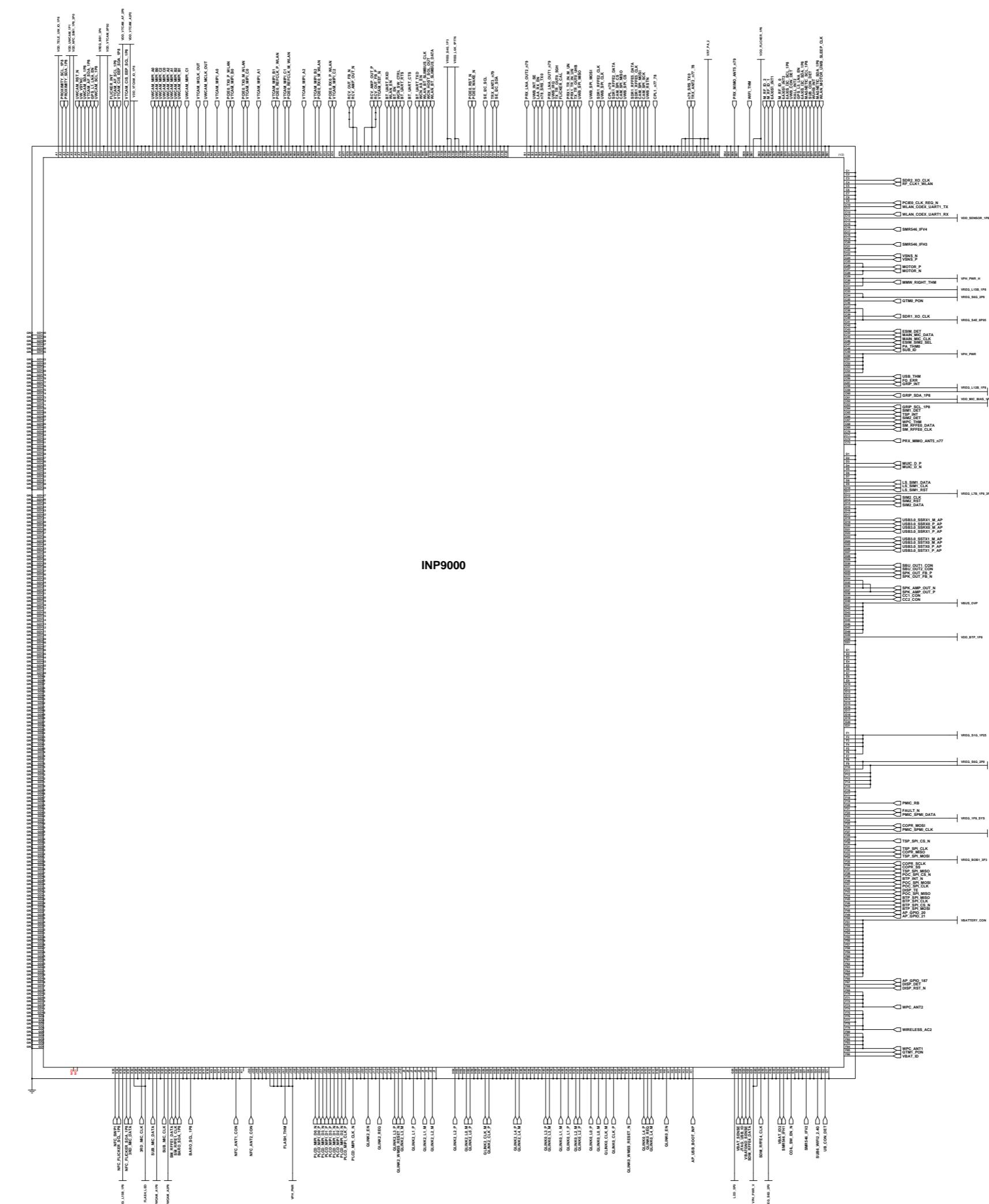
# **PMR735D #1**

# 5G IFIC (SMR546)

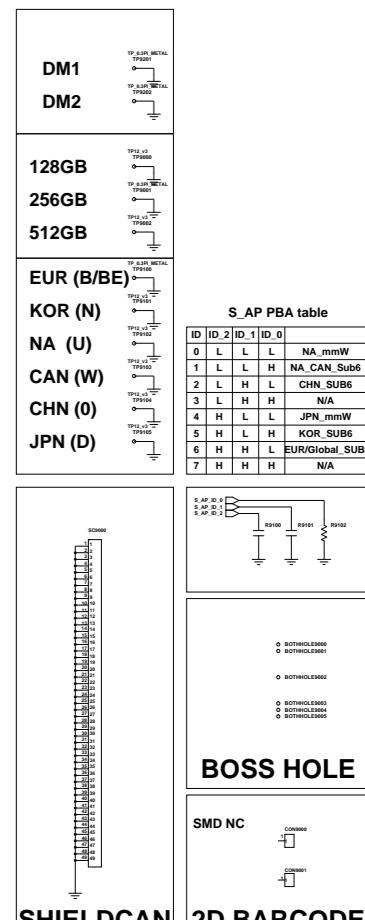
# Radiation



**SAMSUNG CONFIDENTIAL**  
THIS DOCUMENT CONTAINS CONFIDENTIAL  
PROPRIETARY INFORMATION THAT IS  
SAMSUNG ELECTRONICS CO.'S PROPERTY.  
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS  
EXCEPT AS AUTHORIZED BY SAMSUNG.

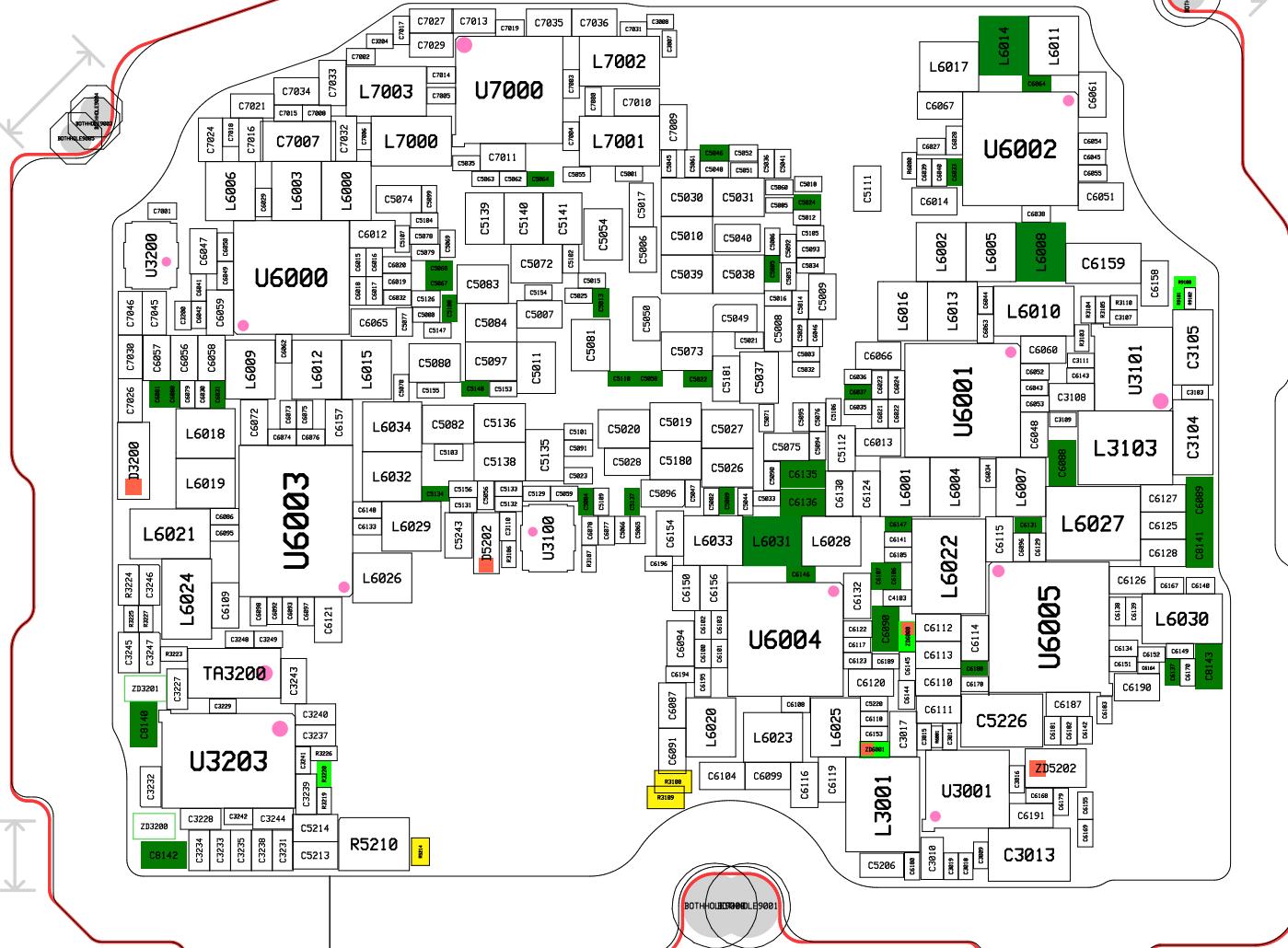


	R0	G0
GPIO_20	UB_DDI_3P0_EN	DISP_SDA_1P8
GPIO_21	UB_DDI_1P8_EN	DISP_SCL_1P8
GPIO_187	UB_DDR_1P6_EN	DISPLAY_PM_INT



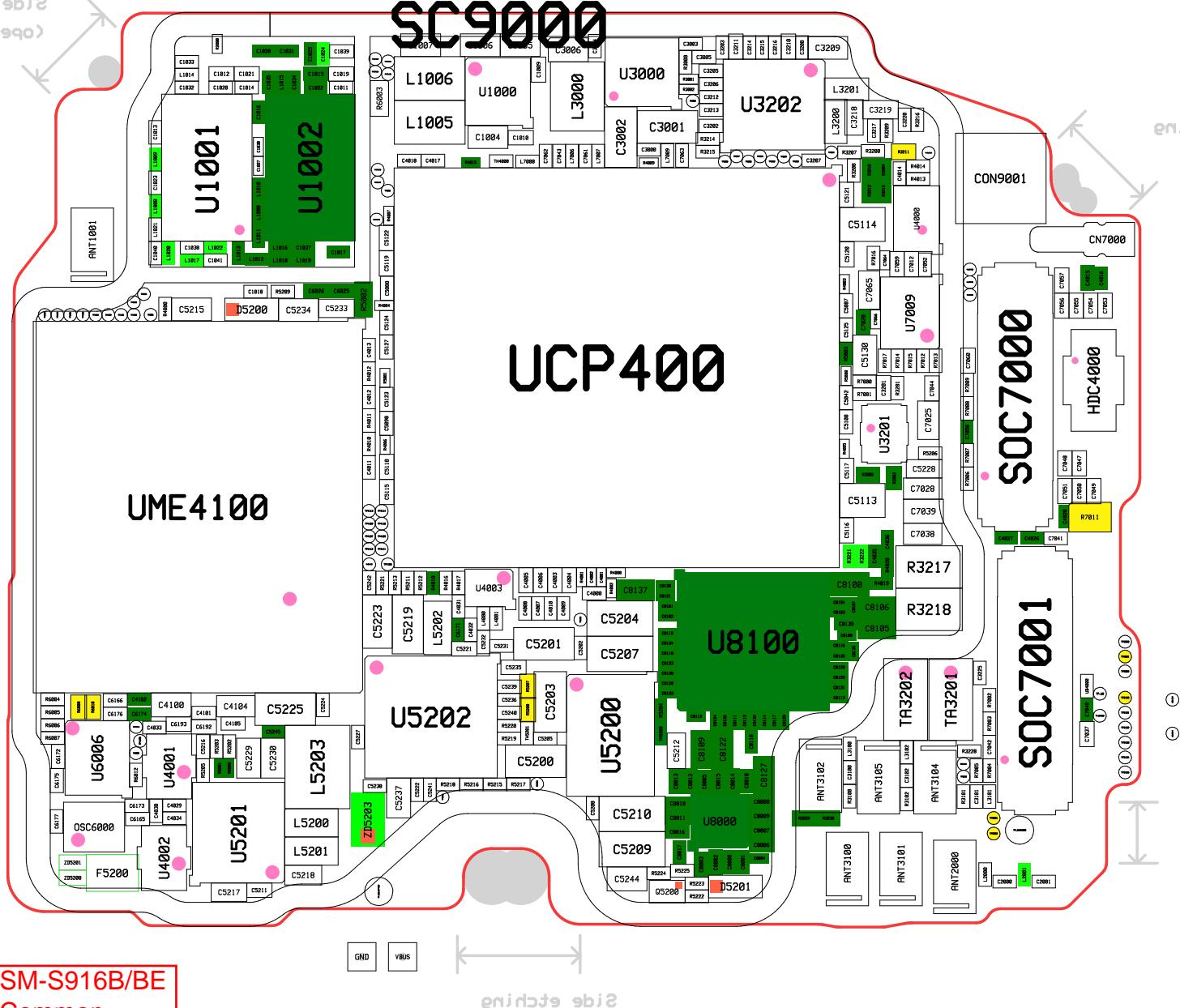
CON9000

**INP9000**



# SM-S916B/BE

## Common



# SM-S916B\_M\_RF\_REV0.7

SM-S911B/BE  
Common

2022. 10.07

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

**SHEET02 : RF (2/2), TRCV\_SDR735, RF PMIC #1**

**SHEET03 : BT/WIFI**

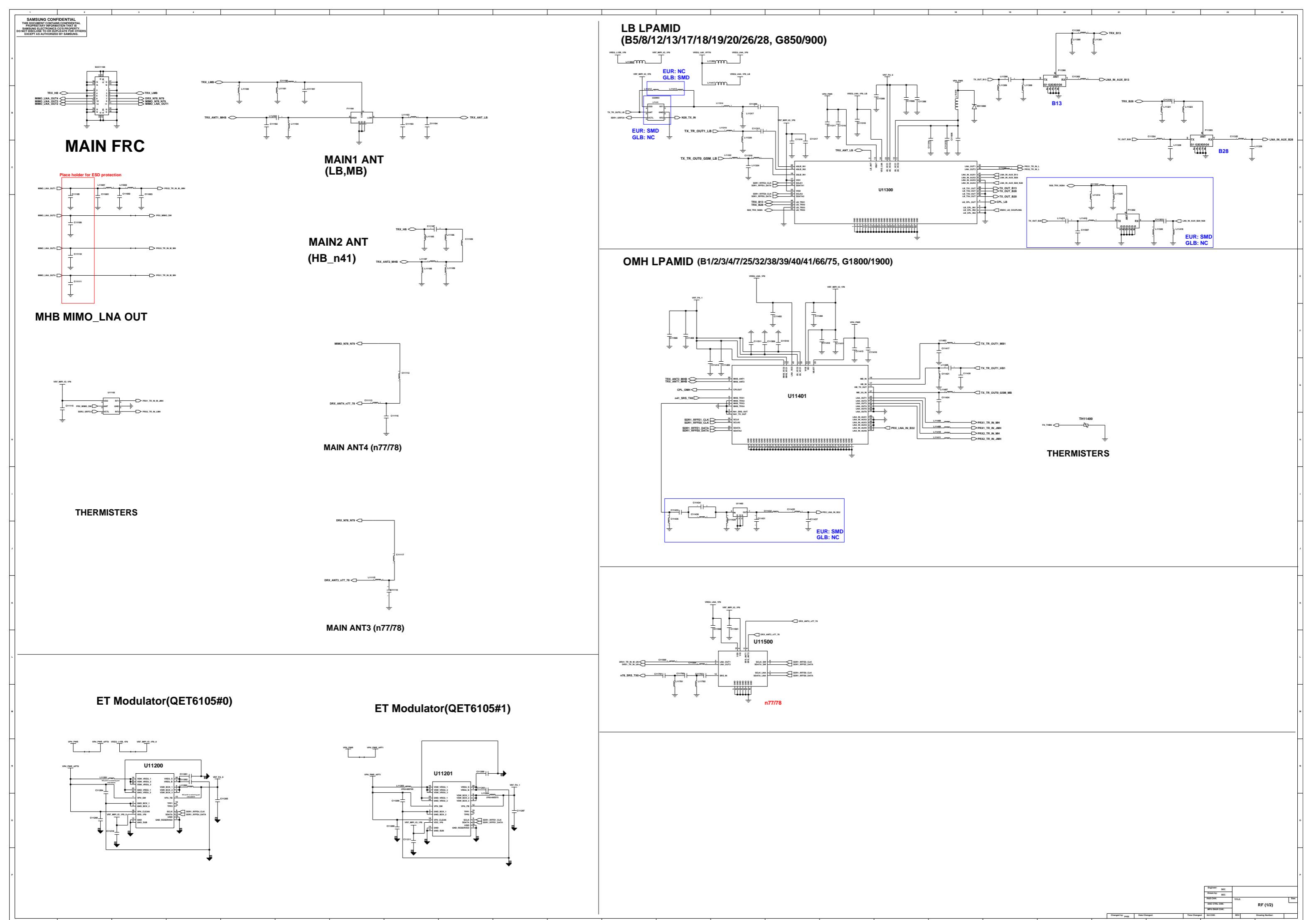
**SHEET04 : BAT CON, W/C CON, SENSOR**

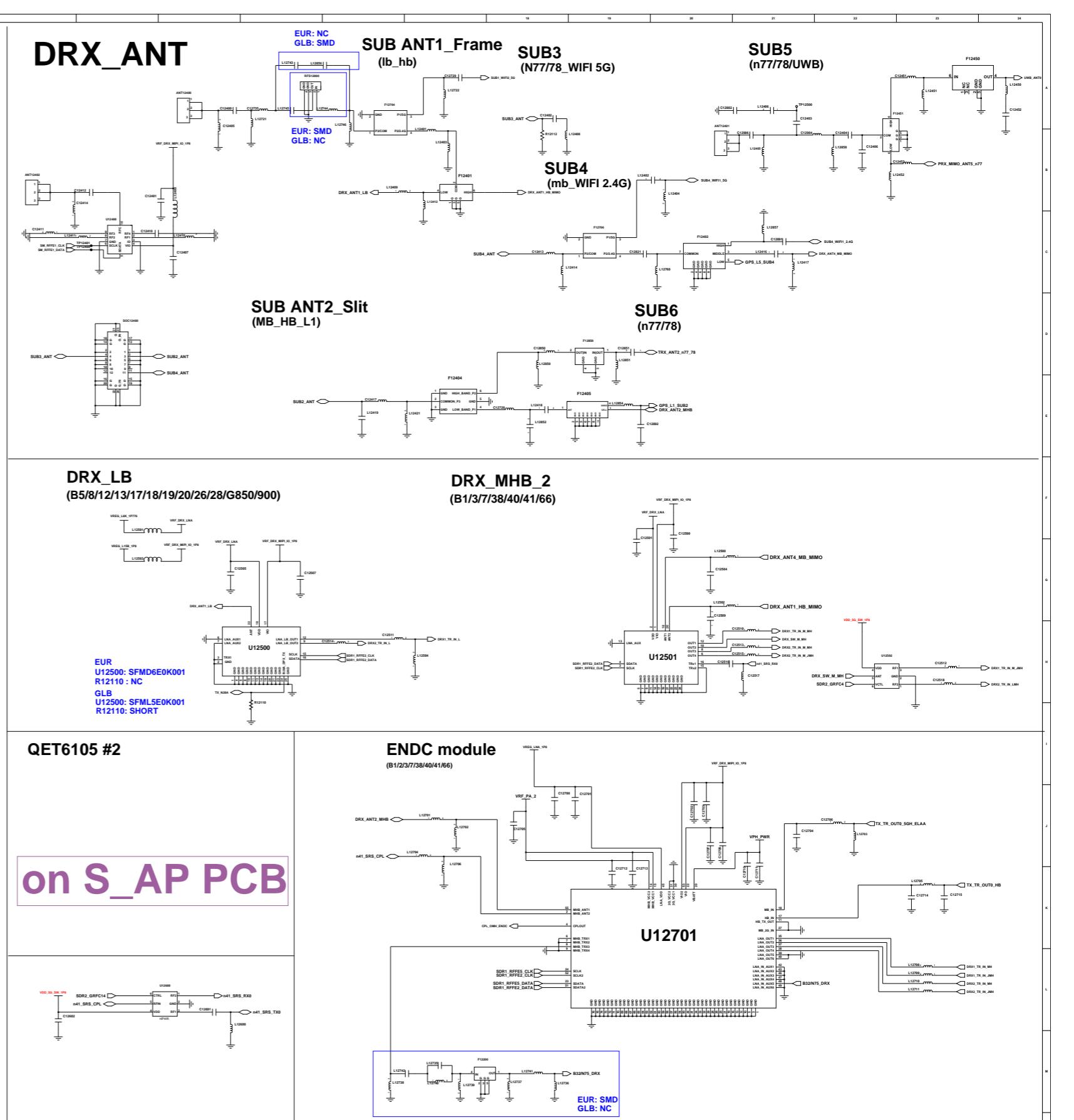
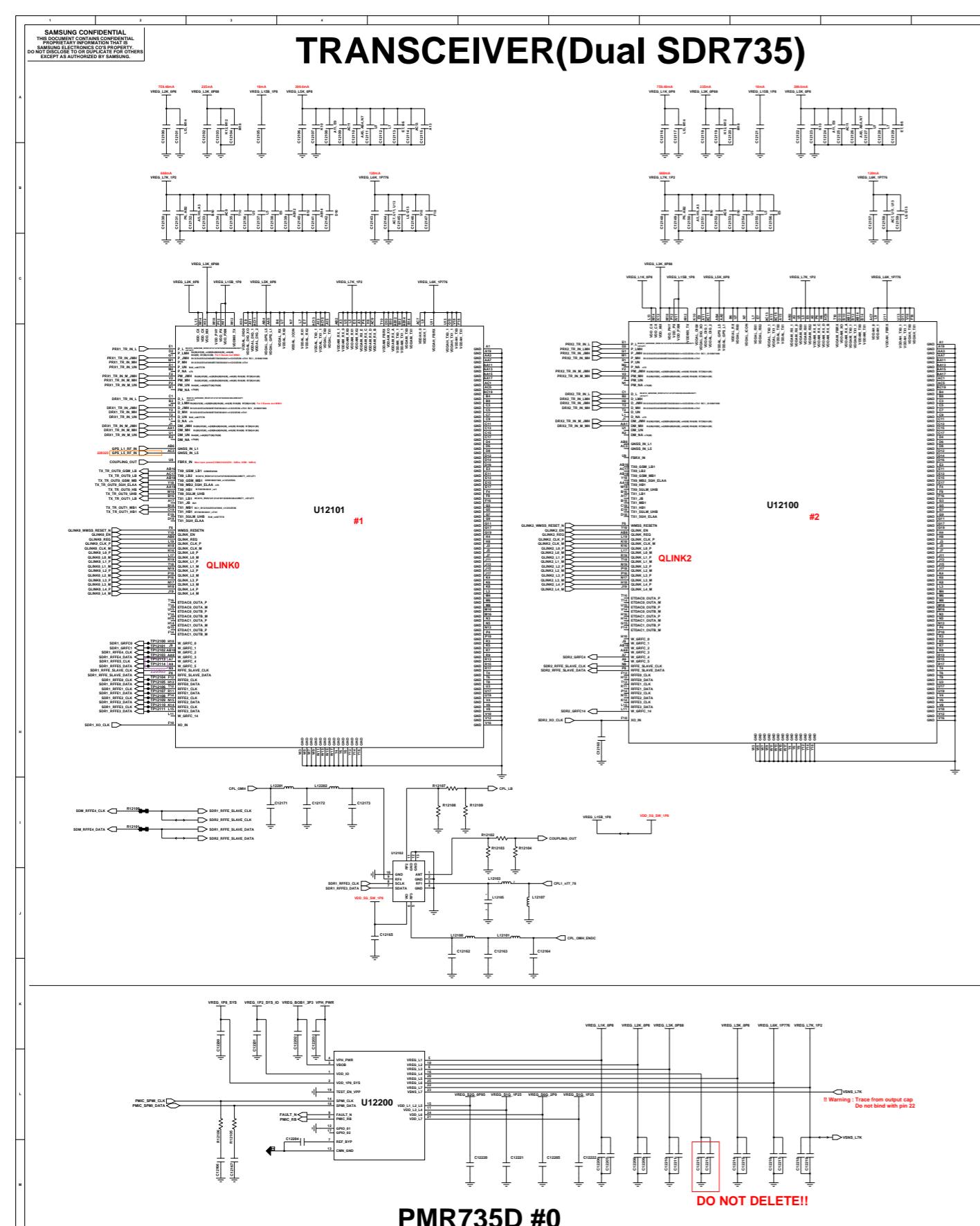
**SHEET05 : IF SUB CON, JTAG, RCV CON, MIC**

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

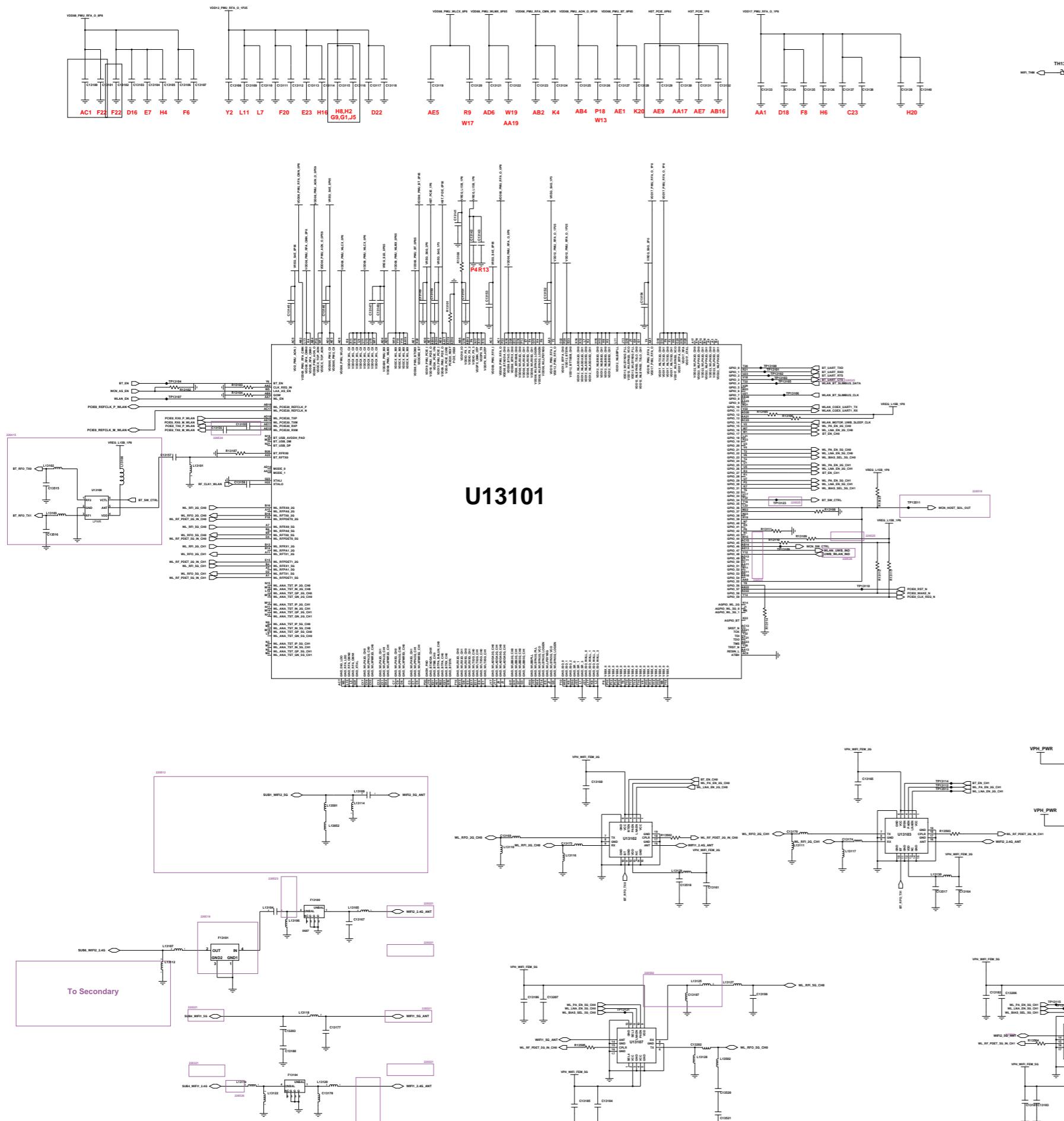
**SHEET07 : INTERPOSER**

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

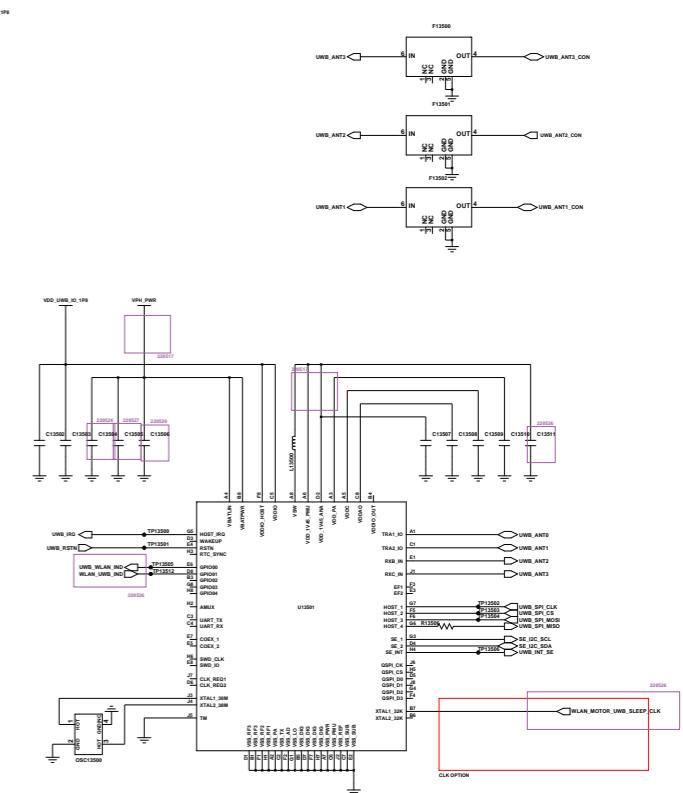




# WIFI (WCN6856 CoB)



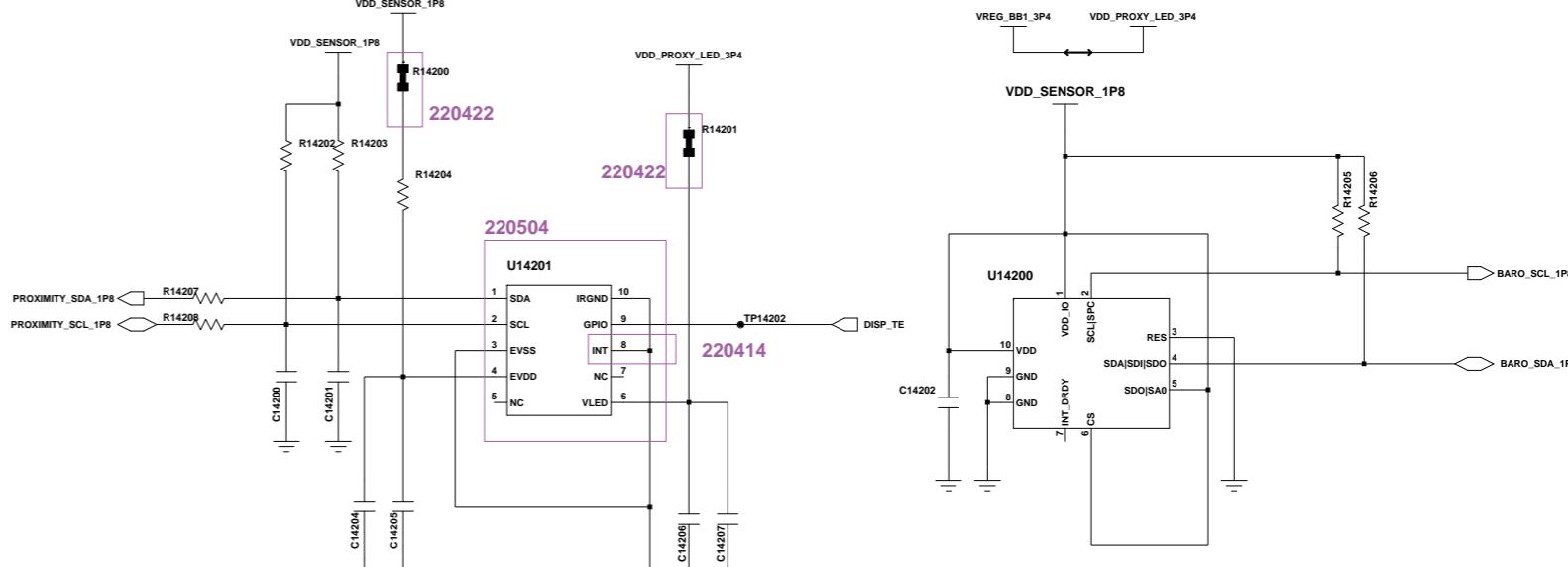
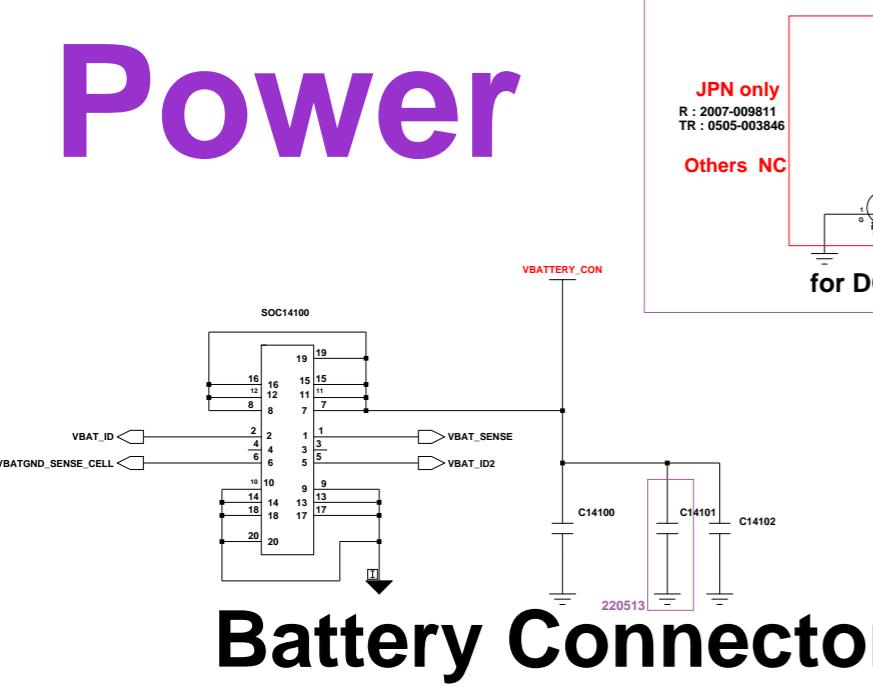
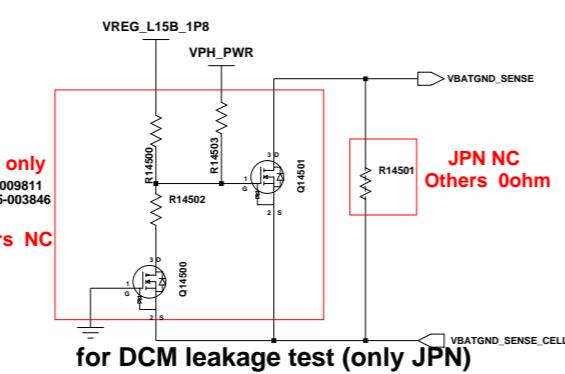
# UWB



**SAMSUNG CONFIDENTIAL**  
THIS DOCUMENT CONTAINS CONFIDENTIAL  
PROPRIETARY INFORMATION THAT IS  
SAMSUNG ELECTRONICS CO.'S PROPERTY.  
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS  
EXCEPT AS AUTHORIZED BY SAMSUNG.

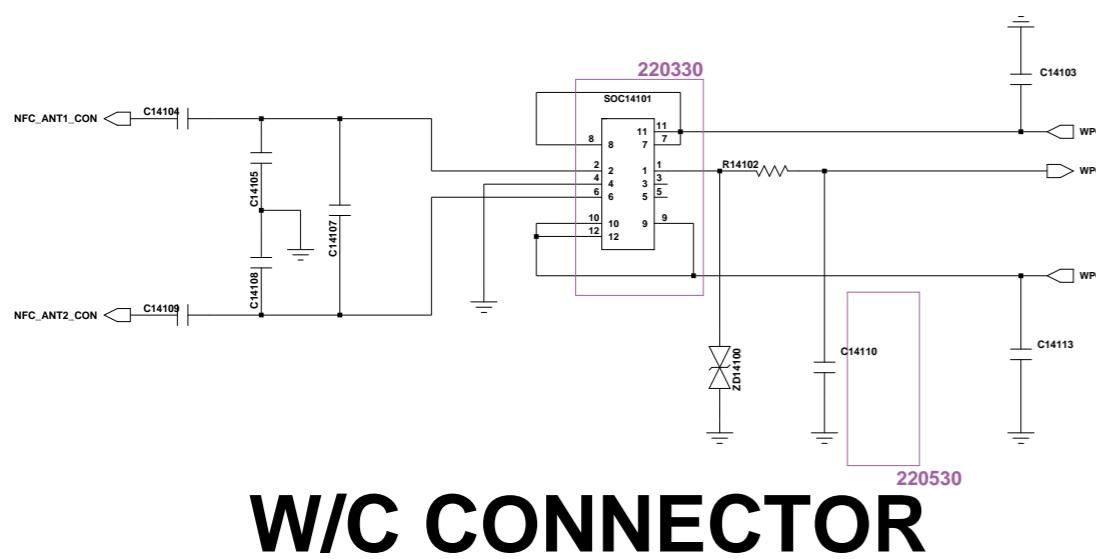
# Power

REV0.3\_220715



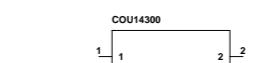
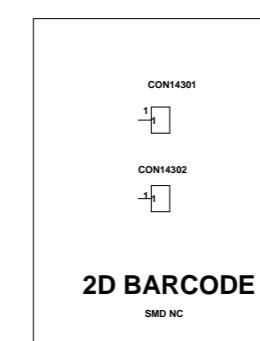
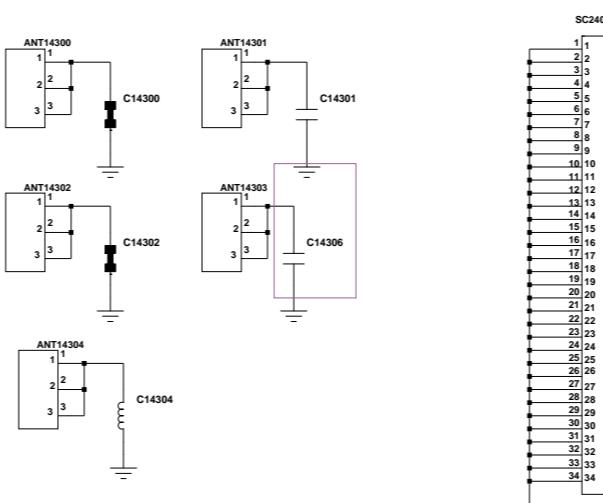
Proximeter/Ambient Light Sensor

Barometer SENSOR



6 Axis SENSOR (GYRO,ACCEL)

CCP SHIELDCAN



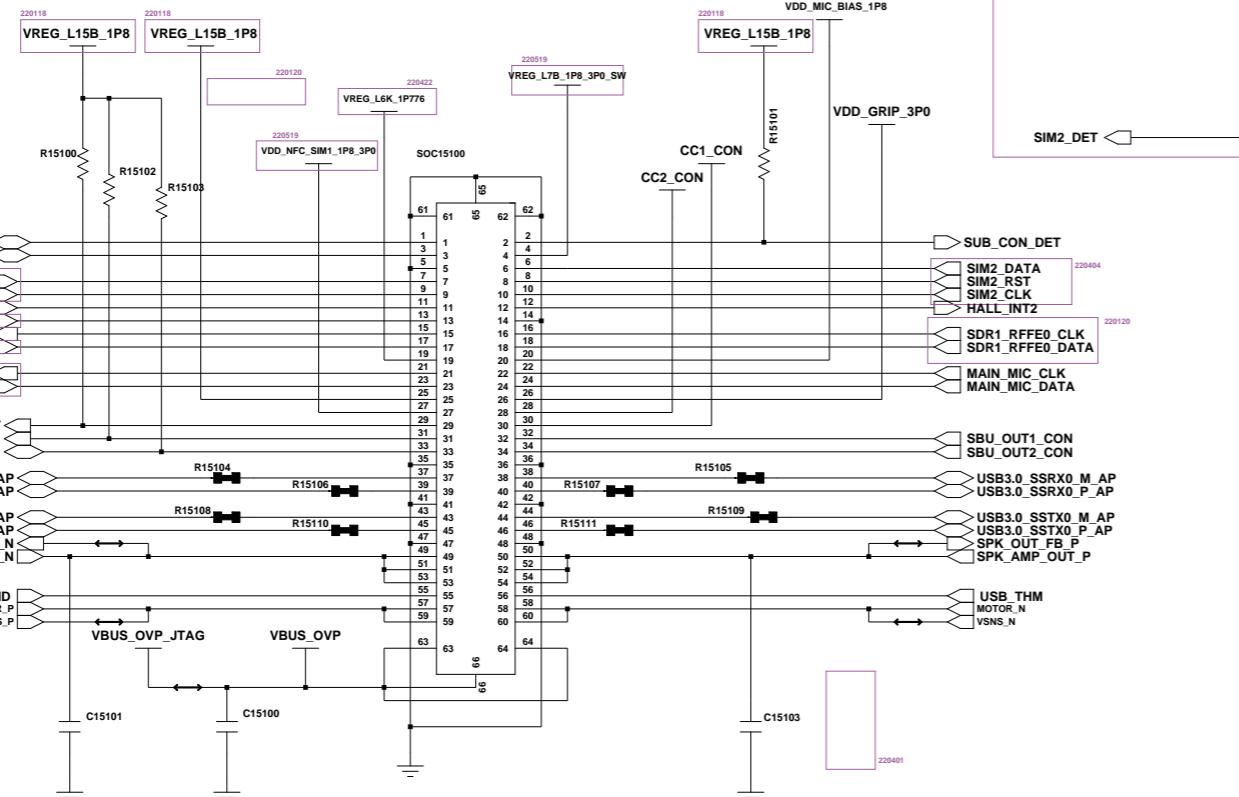
IVH-COUPON

Engineer: SEC	SAMSUNG ELECTRONICS	
Drawn by: SEC		
R&D CHK: SEC	TITLE: DM1_R00_M_RF_220511_START	
DOC CTRL CHK:	Size: 1218A	
MFG ENGR CHK:		
QA CHK:	REV:	Drawing Number:
Changed by: kj100.kim	Date Changed: Tuesday, May 10, 2022	Time Changed: 5:58:13 pm

# MST SW

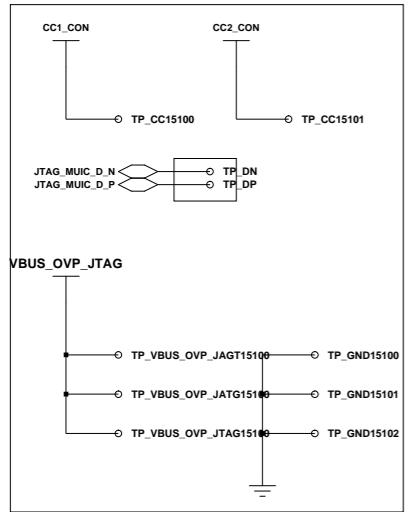
# System

**AUDIO**

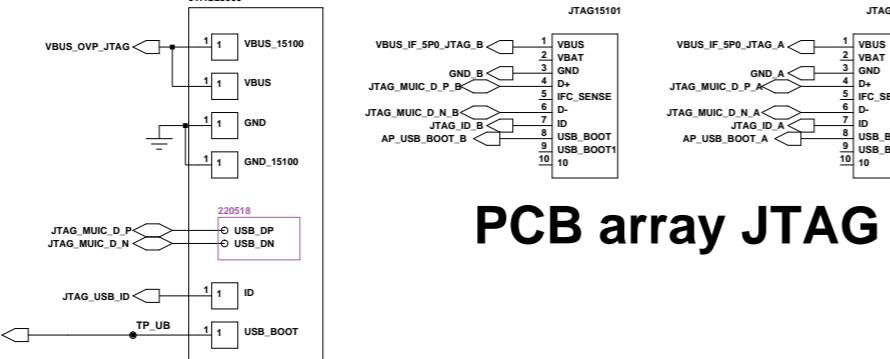
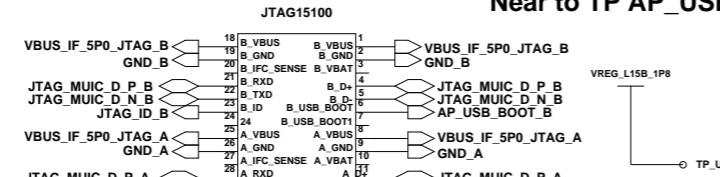


## IF SUB PBA Conn

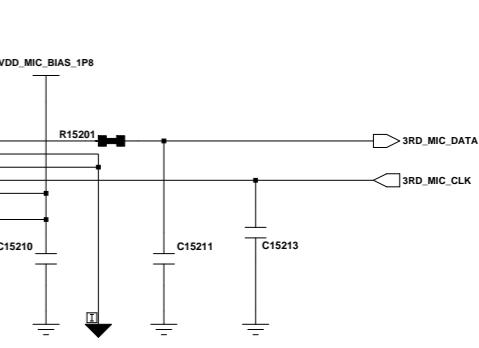
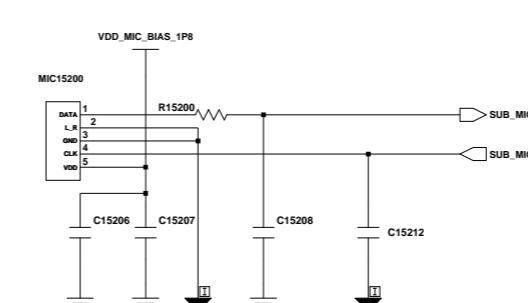
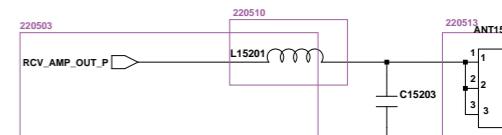
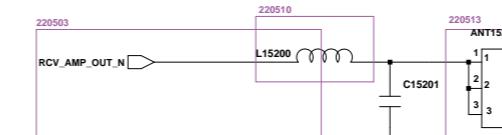
FOR JIG



**CAUTION: PLACEMENT  
Near to TP\_AP\_USB\_BOOT**



## RCV Conn.



## 2nd MIC

## 3rd MIC

## M\_RF PBA table

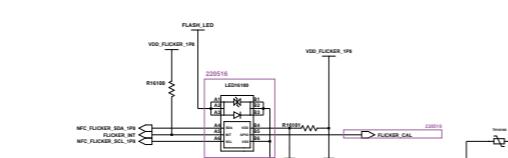
ID	ID_2	ID_1	ID_0	
0	L	L	L	NA_mmW
1	L	L	H	NA_CAN_Sub6
2	L	H	L	CHN_SUB6
3	L	H	H	Global_SUB6
4	H	L	L	JPN_mmW
5	H	L	H	KOR_SUB6
6	H	H	L	EUR_SUB6
7	H	H	H	N/A

**SAMSUNG  
ELECTRONICS**

Engineer:  
Drawn by:  
R&D CHK:  
DOC CTRL CHK:  
MFG ENGR CHK:  
Size:  
1218 A

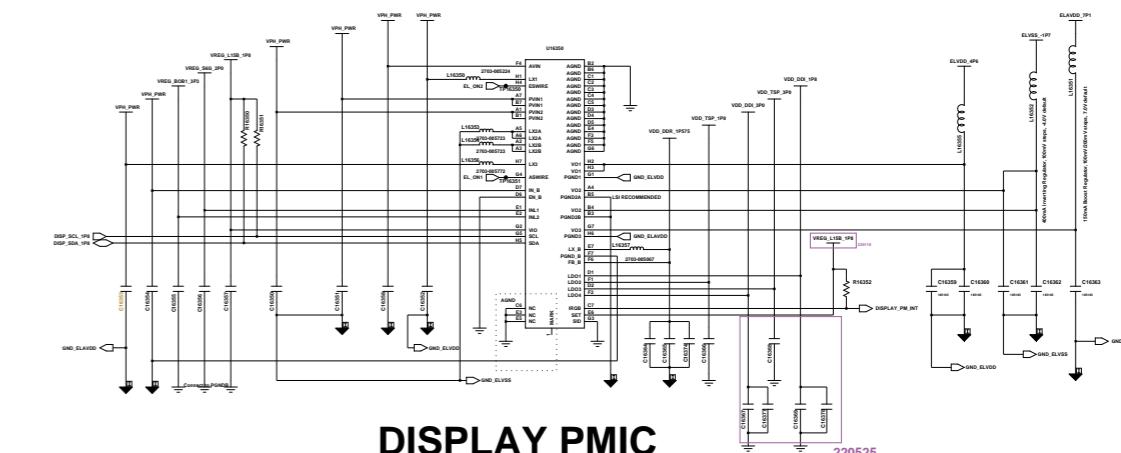
# CAMERA

**SAMSUNG CONFIDENTIAL**  
THIS DOCUMENT CONTAINS CONFIDENTIAL  
PROPRIETARY INFORMATION THAT IS  
SAMSUNG ELECTRONICS CO.'S PROPERTY.  
DO NOT DISCLOSE TO OR DUPLICATE FOR OT  
EXCEPT AS AUTHORIZED BY SAMSUNG.



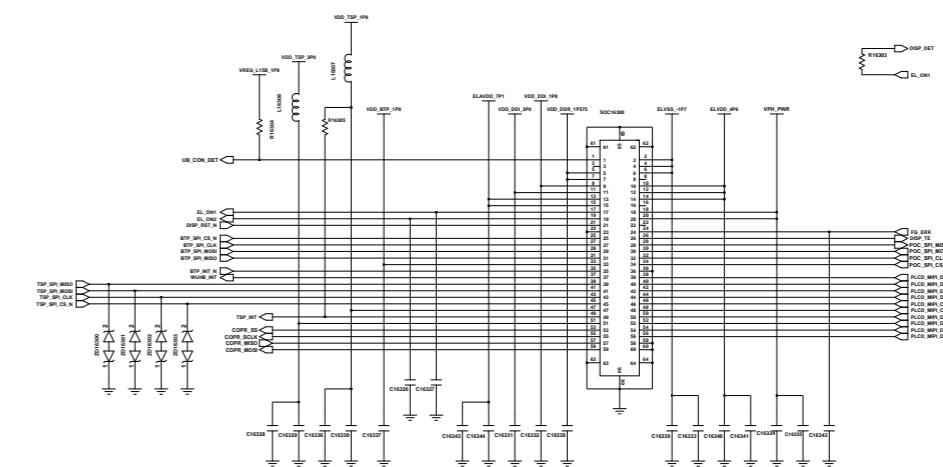
# Flash & Flicker sens

CAM PMIC (PB02)



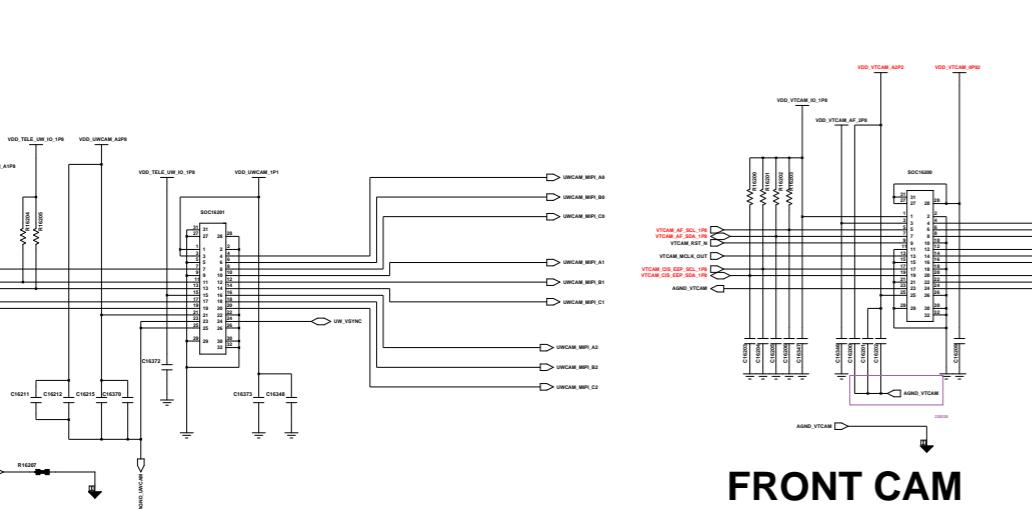
DISPLAY PMIC

## Wide CA



## DISPLAY CONNECTOR

Tele CA

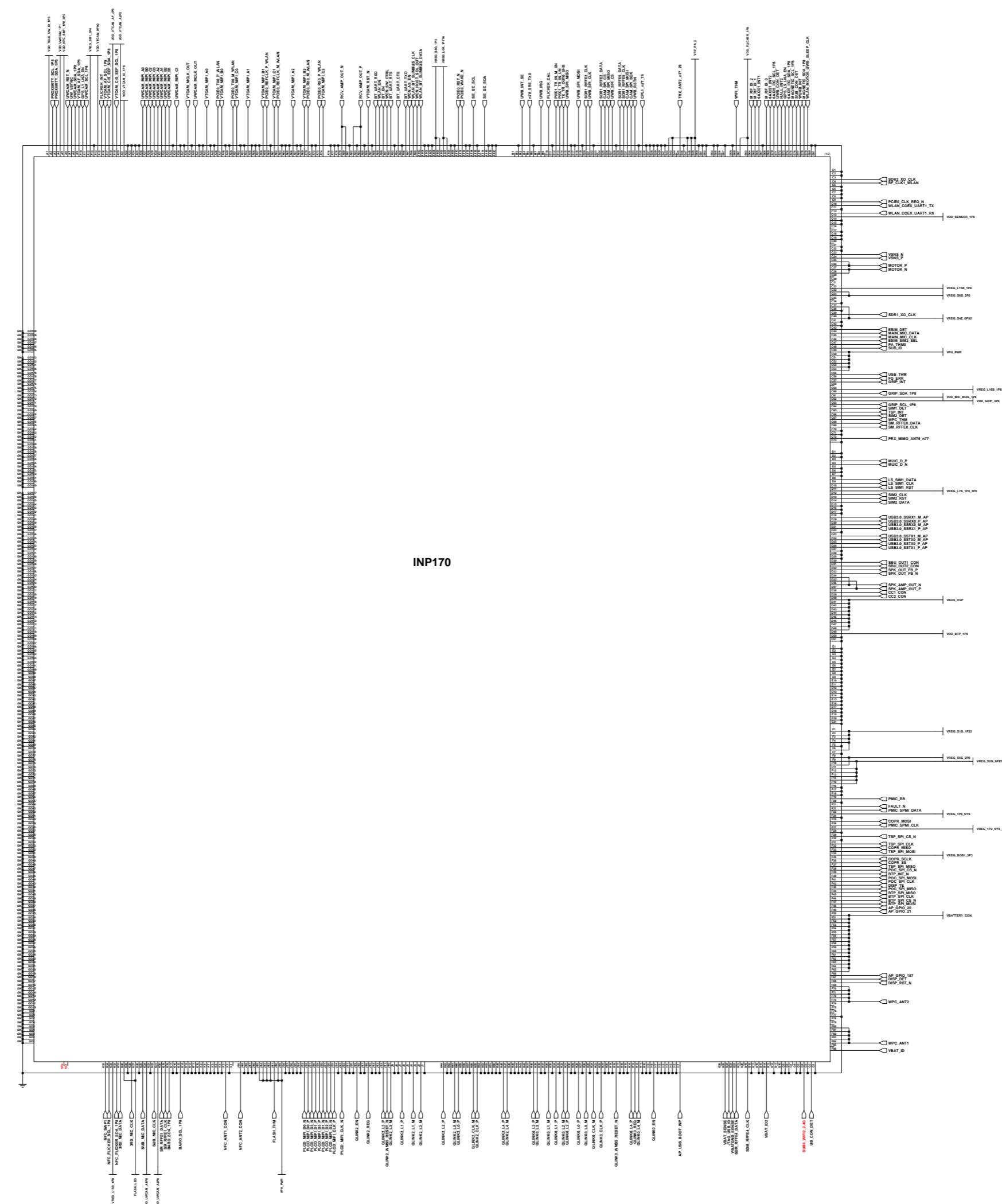


FRONT C

## ULTRA WIDE CA



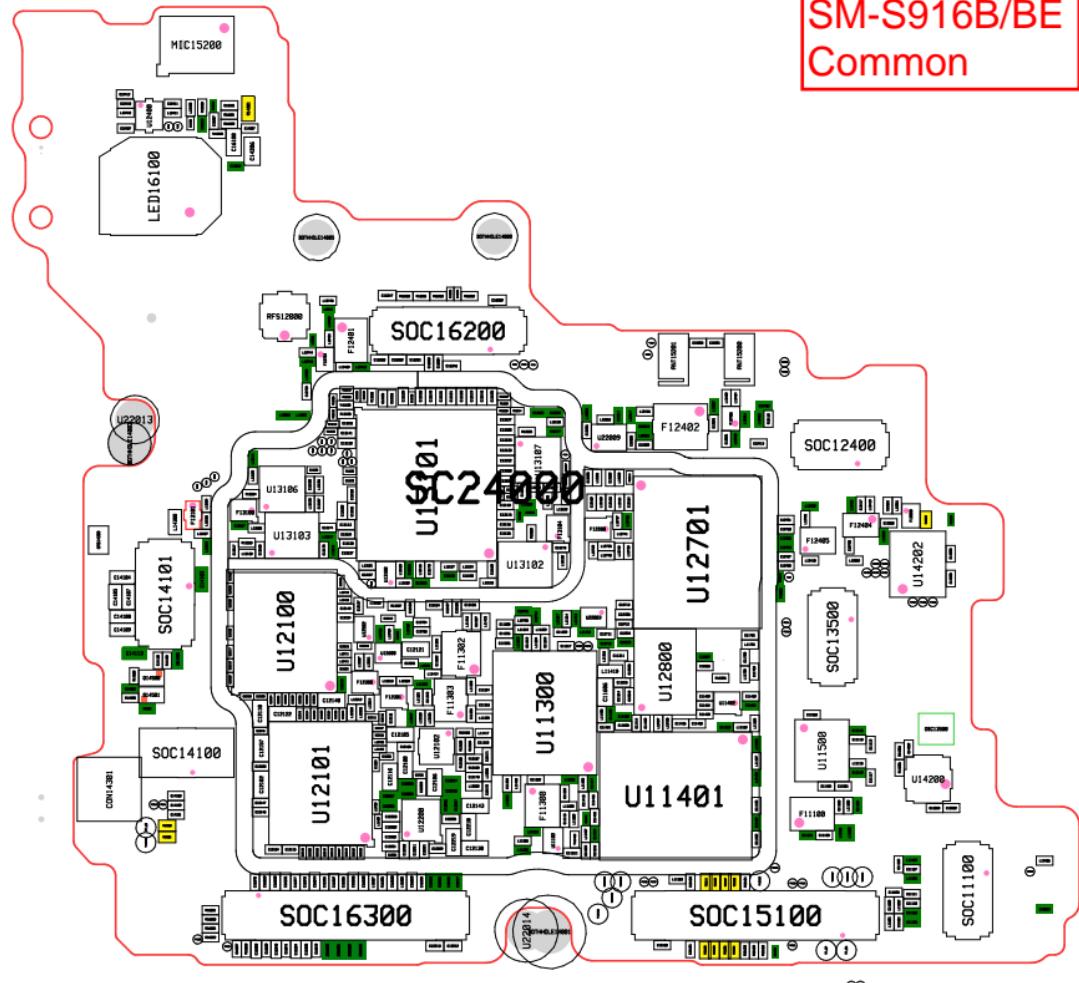
**SAMSUNG CONFIDENTIAL**  
THIS DOCUMENT CONTAINS CONFIDENTIAL  
PROPRIETARY INFORMATION THAT IS  
SAMSUNG ELECTRONICS CO.'S PROPERTY.  
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS  
EXCEPT AS AUTHORIZED BY SAMSUNG.



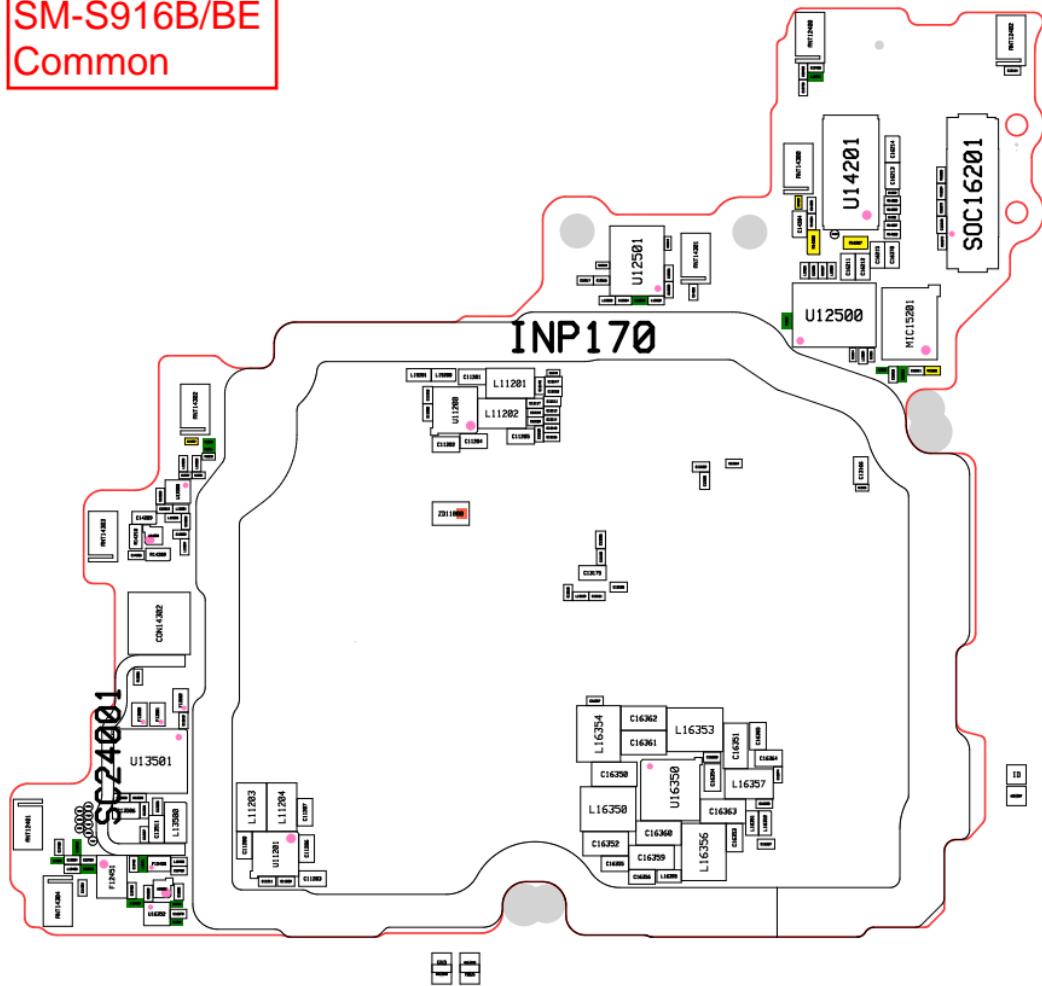
	R0	G0
GPIO_20	UB_DDI_3P0_EN	DISP_SDA_1P8
GPIO_21	UB_DDI_1P8_EN	DISP_SCL_1P8
GPIO_187	UB_DDR_1P6_EN	DISPLAY_PM_INT

Engineer: EC Drawn by: EC SD CHK:	SAMSUNG ELECTRONICS	SD
DOC CTRL CHK:	TITLE:	
INTPSR, SHIELDCAN	24116	
REV:	Drawing Number:	Page
A CHK:		

**SM-S916B/BE**  
**Common**



SM-S916B/BE  
Common



**SM-S916B/BE**  
**Common**

