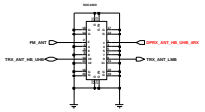
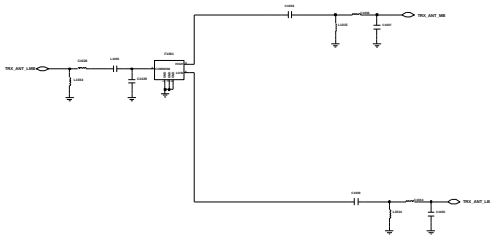
SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION THAT IS SAMSUNG ELECTRONICS CO'S PROPERTY. DO NOT DISCLOSE OR REPRODUCE IN WHOLE OR PARTS EXCEPT AS AUTHORIZED BY SAMSUNG.

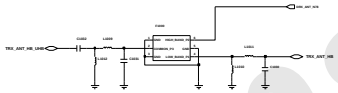
MAIN ANT RECEPTABLE



RF Ccnnector



MAIN ANT1 LB/MB
(GSM, TDSCDMA B34/39, B1/2/3/4/5/8/12/13/17/18/19/20/25/26/28/32/66, TDD 39)

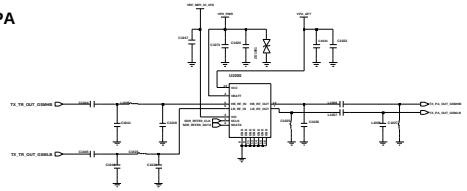


MAIN ANT2 (B7, TDD B38/40/41, sub6:n78)

MAIN ANT4 (B1/4/66_B3_4RX)

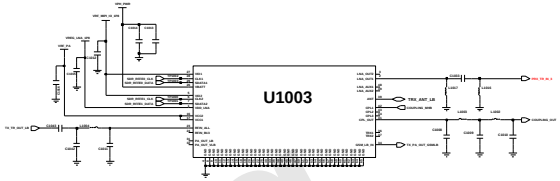
MAIN ANT3 (sub6:n78_B7_B40_4RX)

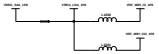
2G_PA



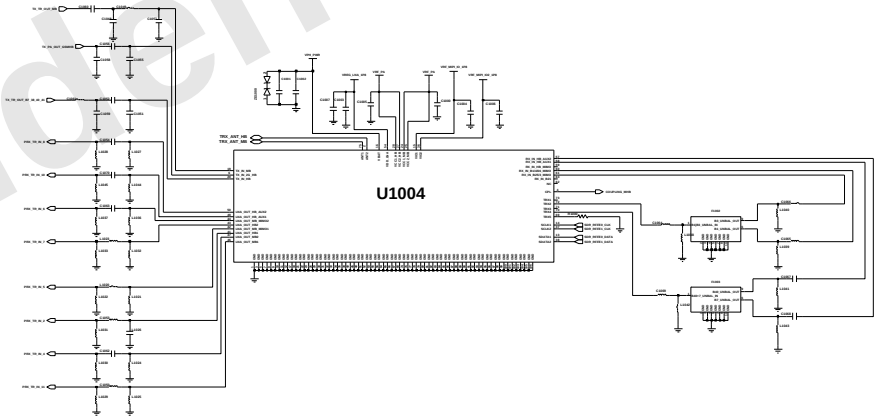
THERMISTER

LB LPAMID
(B5/8/12/13/17/18/19/20/26/28, G850/900)





OMH LPAMID
(B1/2/3/4/7/25/32/34/38/39/40/41/66, G1800/1900)

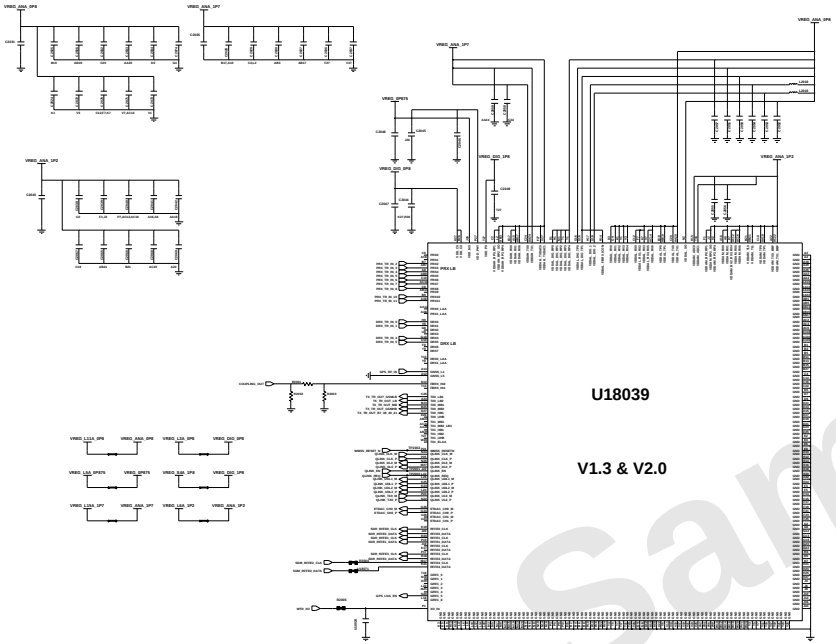


Samsung Confidential

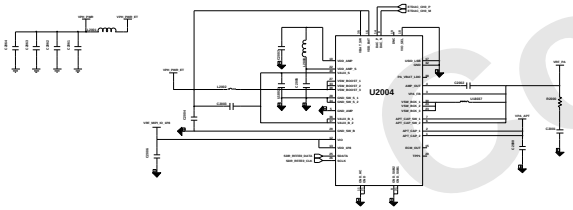
Designer	
Drawn by	
Approved	
Date of Issue	
Revision Date	
Revision Note	
Title	SDM855
Size	
Rev	
Changed by	Date changed
Date changed	Date changed
Sheet	Drawing Number

SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION THAT IS SAMSUNG ELECTRONICS CO'S PROPERTY. DO NOT DISCLOSE OR USE THIS DOCUMENT EXCEPT AS AUTHORIZED BY SAMSUNG.

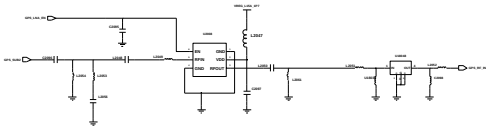
TRANSCEIVER (SDR8150 V1.3 & V2.0)



LTE ET Modulator

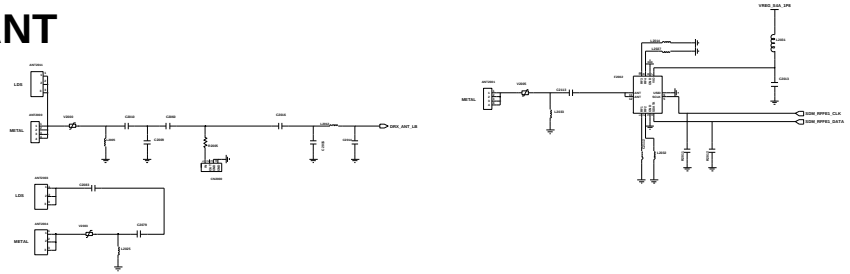


GPS

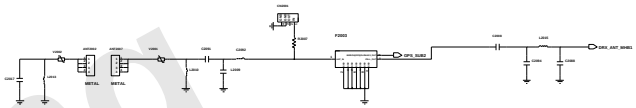


SUB ANT

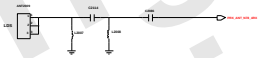
SUB ANT1
(LB)



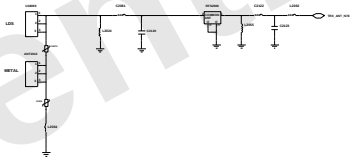
SUB ANT2
(MB, HB, GPS)



SUB ANT5
(sub6_n78_4RX)

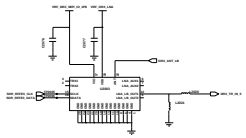


SUB ANT3
(sub6:n78 Tx)

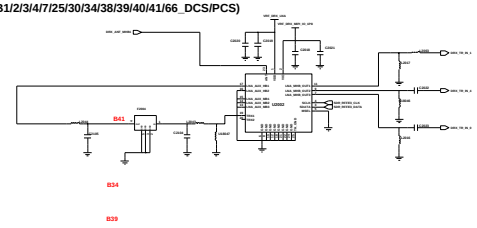


DRX_MHB_2
(B1/4/66_B3_B7/40_4RX)

DRX_LB
(B5/8/12/13/17/18/19/20/26/28_G850/900)



DRX_MHB_1
(B1/2/3/4/7/25/30/34/38/39/40/41/66_DCS/PCS)

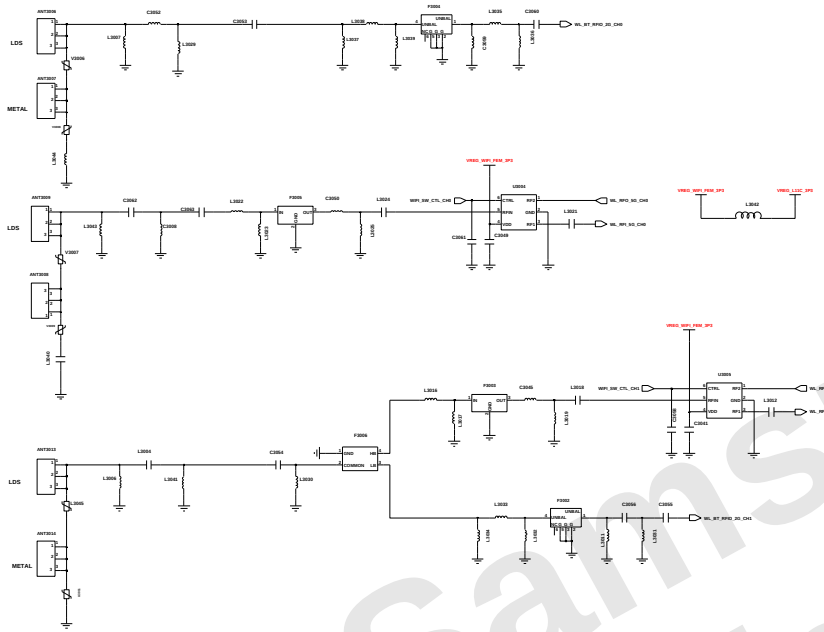


Samsung Confidential

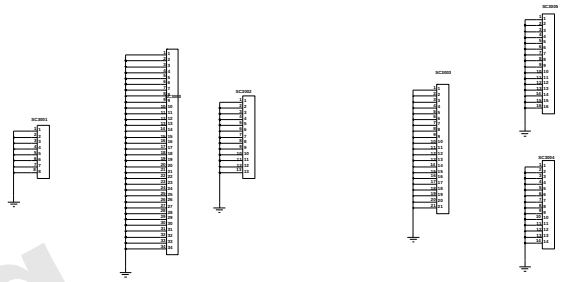
SDM855

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

BT/WIFI

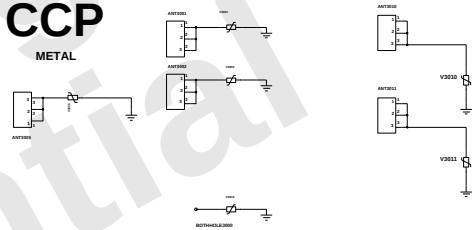


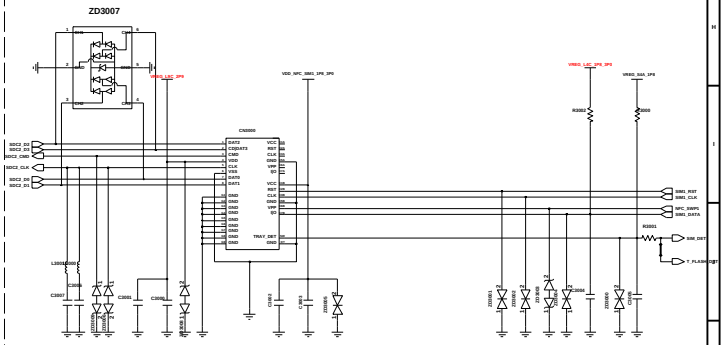
SHIELDCAN



CCP

METAL





WIFI/BT/FM

3 in 2 SIM socket

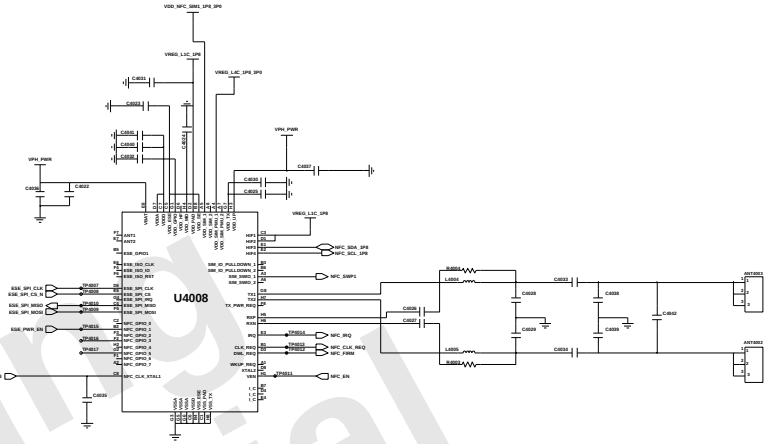
Samsung Confidential

Engineer:	
Design Sys:	
R&D CHK:	TITLE: SDM855
DOC CTRL CHK:	
MFG ENGR CHK:	
QA CHK:	

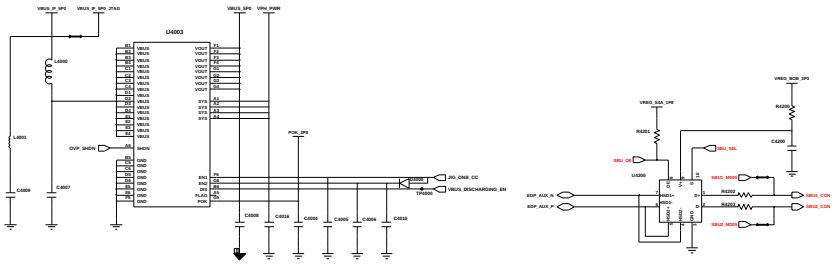
Changed By (initials)	Date Changed	Field Changed	REV	Drawing Number	Page

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

NFC

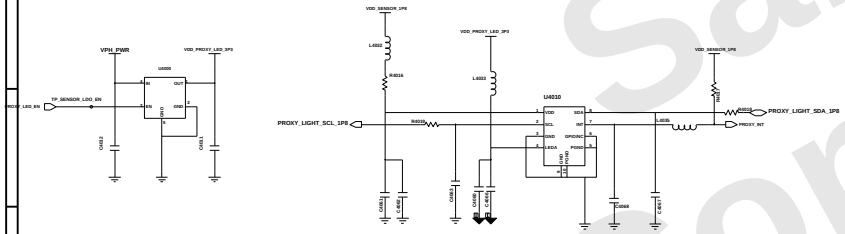


OVP LS

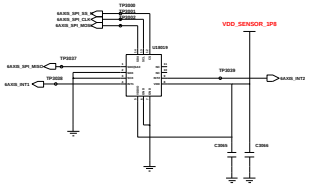


AUX sw

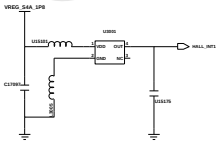
SENSORS



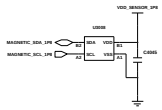
PROXY AMBIENT



6 AXIS SENSOR (GYRO,ACCEL)



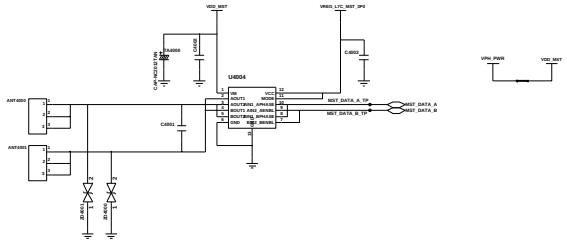
HALL_IC



MAGNETIC SENSOR

Dummy cap

MST



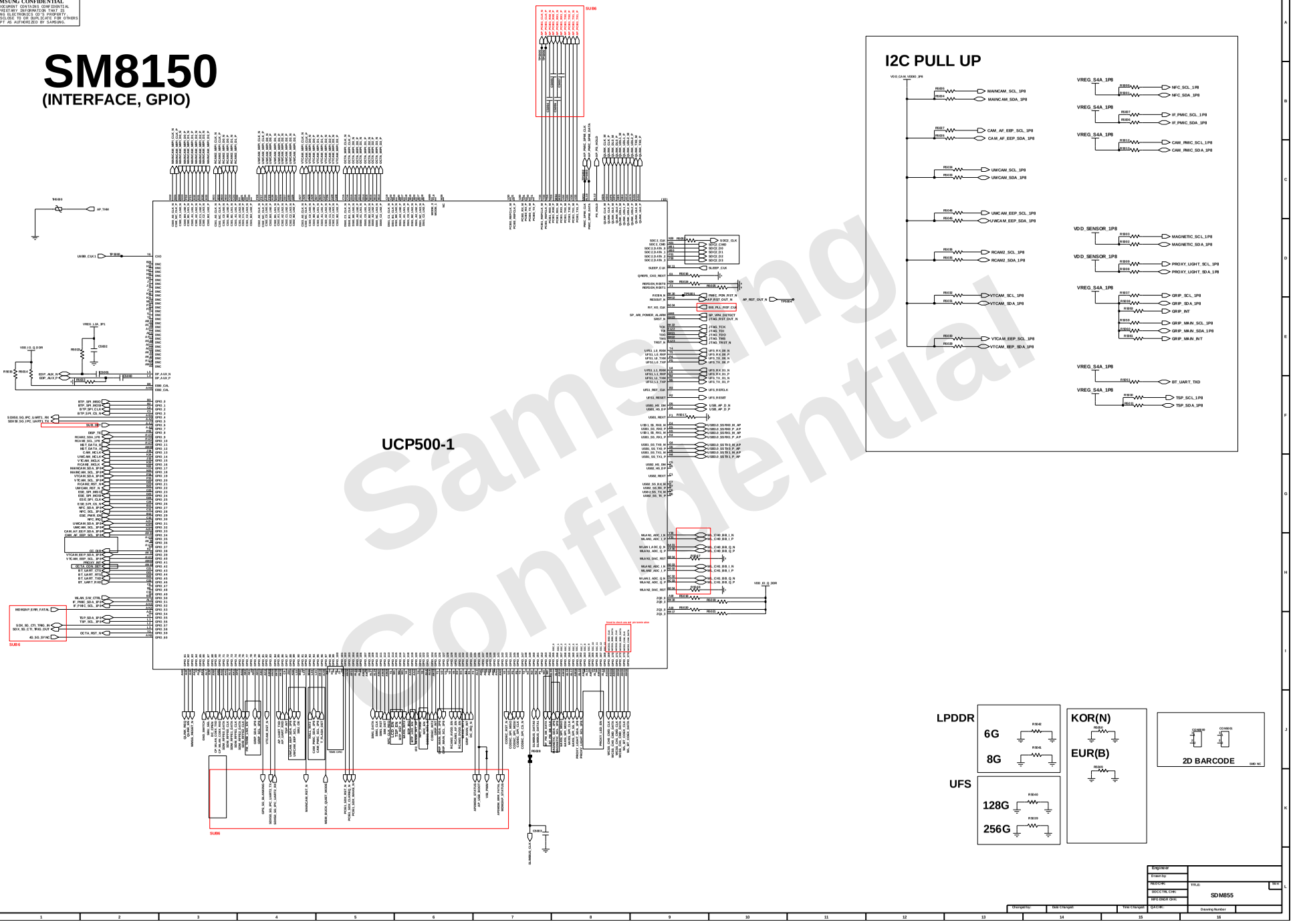
Samsung Confidential

Engineer:	
DESIGN TEAM - KOREA	
DESIGN TL:	
RED TEAM - KOREA	
RED CHK:	
DOC CTRL CHK:	
MFG ENGR CHK:	
QA CHK:	
TITLE:	SDM855
SIZE:	14.1 X A
REV:	
Drawing Number:	
Page:	4

Designed by: sazzad | Date Changed: Friday, April 11, 2014 | Time Changed: 13:27:01 pm

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

SM8150
(INTERFACE, GPIO)



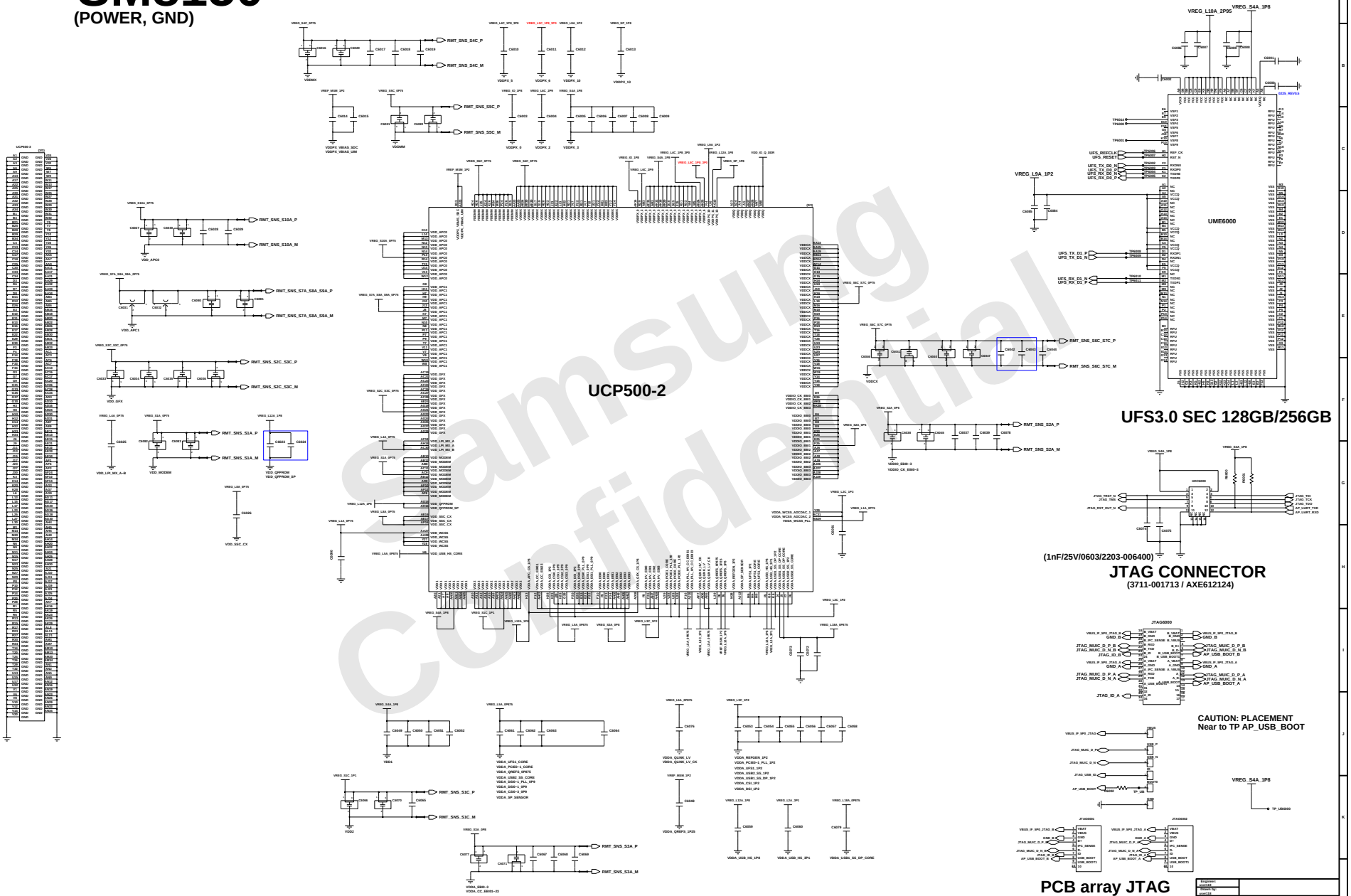
Samsung Confidential

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

SM8150

(POWER, GND)

UFS3.0	VCC 2.50V
UFS2.1	VCC 2.95V



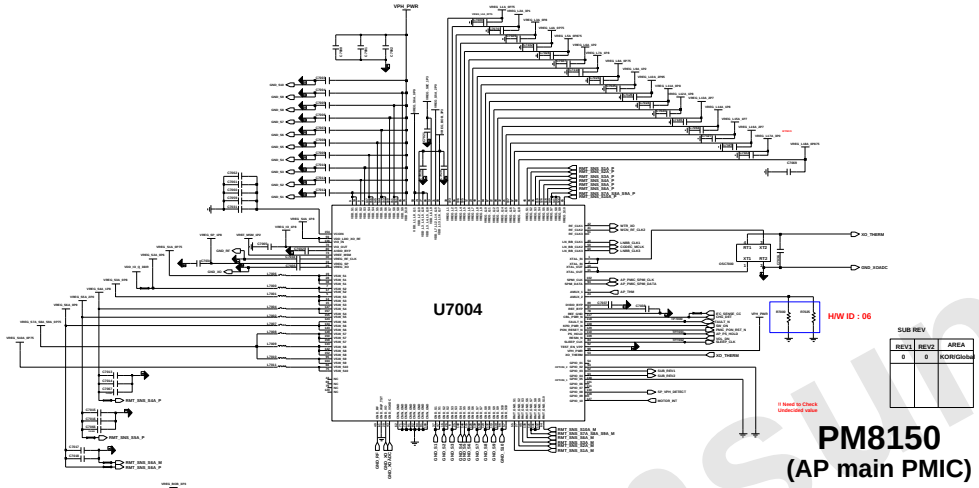
Samsung Confidential

SAMSUNG CONFIDENTIAL
Unauthorized Use Prohibited.
PROPRIETARY INFORMATION THAT IS
SAMSUNG ELECTRONICS CO'S PROPERTY
DO NOT DISCLOSE OR DISTRIBUTE WITHOUT
WRITTEN AUTHORIZED BY SAMSUNG.

POWER (PM8150,PM8150C)

H/W ID table(AMUX_2)

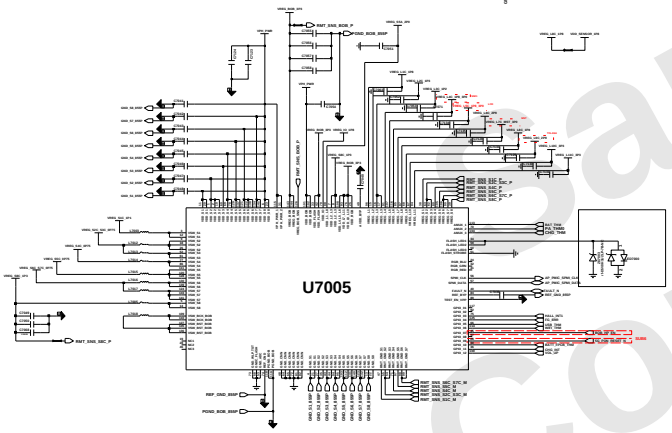
H/W ID	BOARD REVISION	Value	Mech
00	A90_5G_Bringup &REV00	6.04K	
01	A90_5G_REV0.1	9.1K	
02	A90_5G_REV0.2	12.4K	
03	SM-A908N_REV0.3	18K	
04	SM-A908N_REV0.4	22K	
05	SM-A908N_REV0.5	30K	
06	SM-A908N_REV0.5_PR	39K	
07		47K	
08		56K	
09		68K	
10		82K	
11		100K	
12		120K	
13		150K	
14		180K	
15		200K	
16		240K	
17		280K	
18		330K	
19		430K	
20		560K	
21		750K	
22		1000K	
23		1500K	
24		3000K	



SUB REV

REV1	REV2	AREA
0	0	KOR/Global

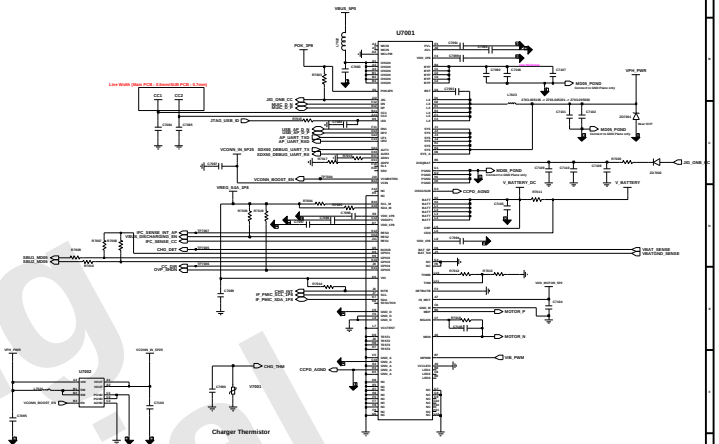
PM8150
(AP main PMIC)

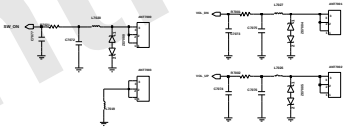


PM8150C
(AP sub PMIC)

Dummy Cap

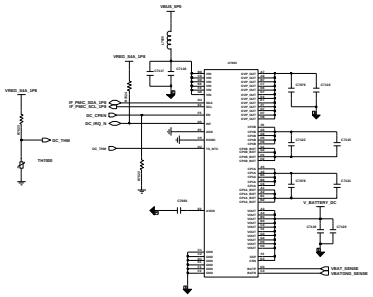
IF PMIC (MD05)



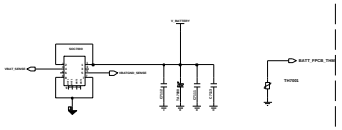


POWER & VOL KEY

MOTOR

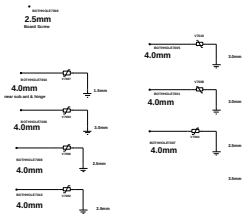


Direct Charging



Battery Connector

CAMERA DECO



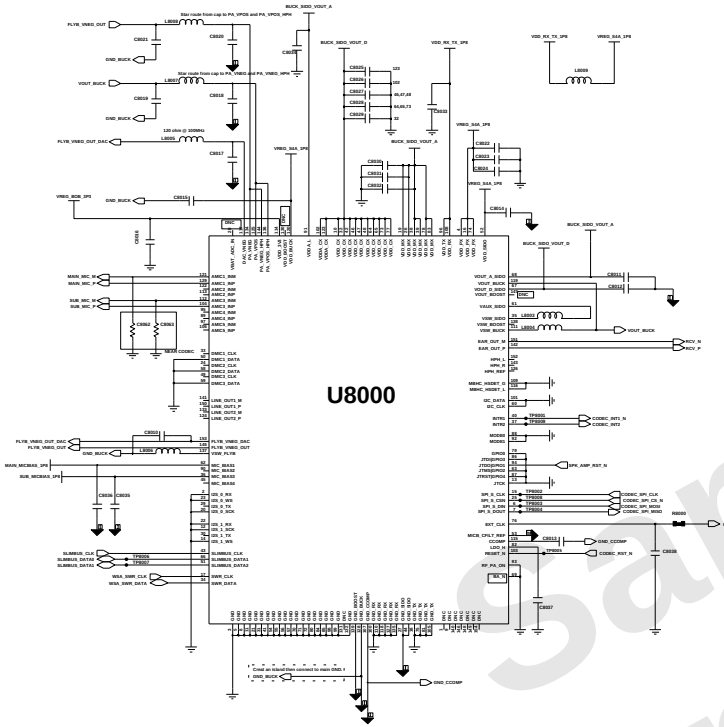
BOSS HOLE

Samsung Confidential

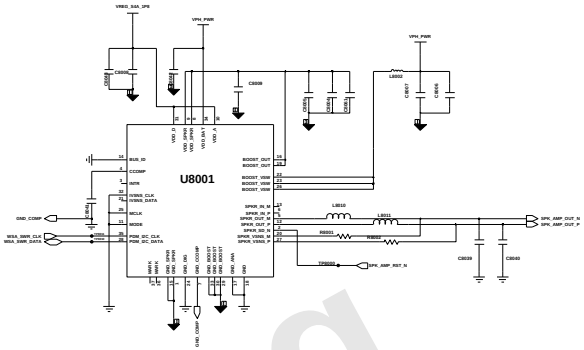
user|swcad61|10.253.15.70|20190827-160029

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

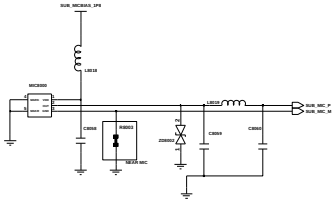
AUDIO PART



Audio Codec



SPK AMP



2nd MIC

RCV CONTACT

TDMB FOR KOR

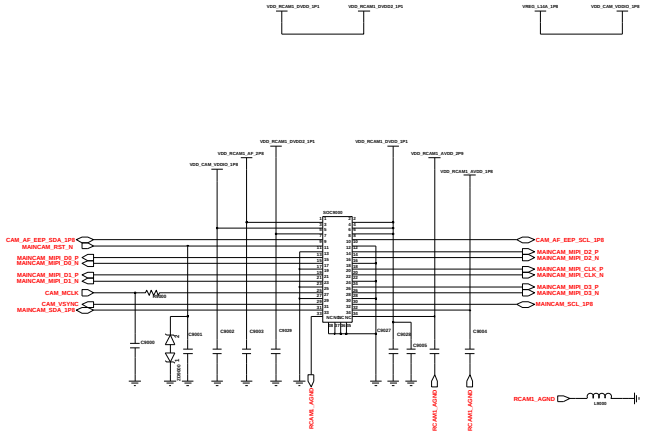
Samsung Confidential

Engineer:	
Model Name: SDM855	
Date: 2019/8/27	
PWR CHK:	TITLE: SDM855
DOC CTRL CHK:	
MFG ENGR CHK:	
QA CHK:	

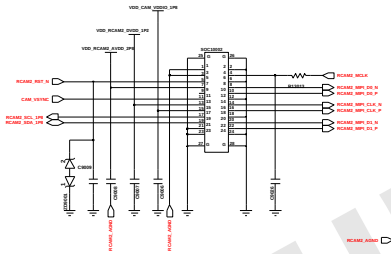
Changed By	Date Changed	Time Changed	REV	Drawing Number	Page

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

CAMERA

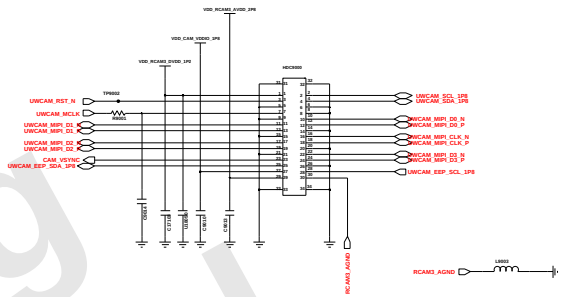


RCAM1_48M CAMERA(34PIN)_IMX582

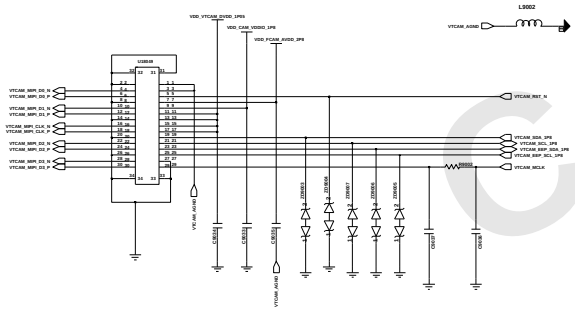


RCAM2_5M CAMERA(24PIN)_GC5035

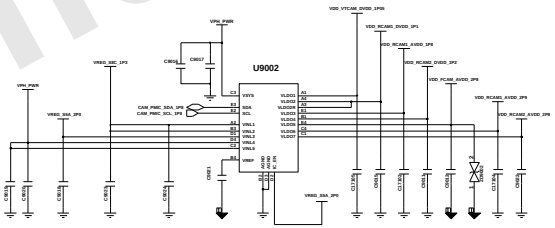
EMI Contact



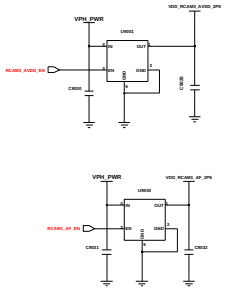
RCAM3_ULTRA WIDE_8M CAMERA(30pin)_4HA



FRONT_32M CAMERA (30PIN)_GD1



CAM PMIC(PB03)



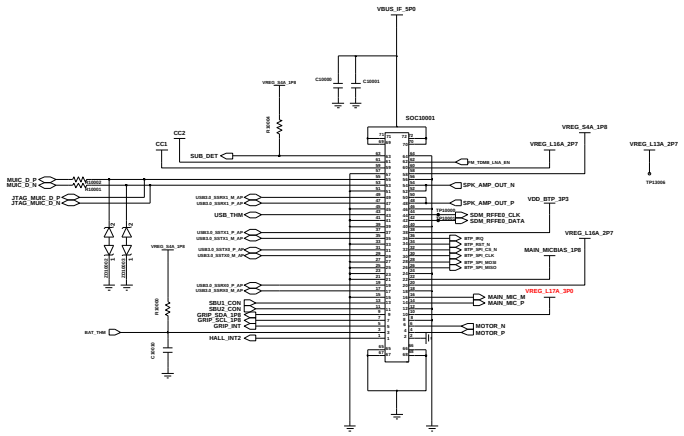
Samsung Confidential

Engineer:	SAMSUNG ELECTRONICS
Design by:	
Check by:	
ENGR CHK:	TITLE: SDM855
DOC CTRL CHK:	
MFG ENGR CHK:	
QA CHK:	REV: Drawing Number: Page:

Designed by: Jason | Date Designed: Thursday, June 16, 2016 | Time Designed: 03:38:00 am

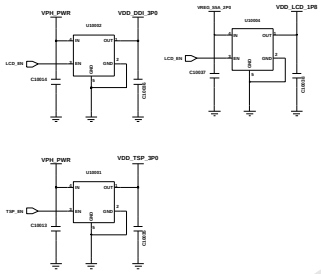
SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL
AND PROPRIETARY INFORMATION OF
SAMSUNG ELECTRONICS CO'S PROPERTY.
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS
EXCEPT AS AUTHORIZED BY SAMSUNG.

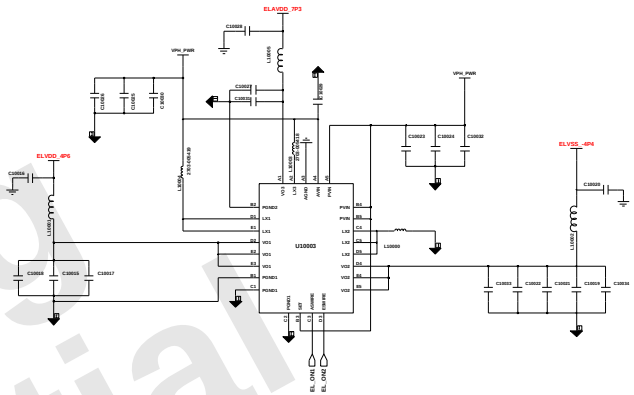
C2C (Conn to Conn FPCB)



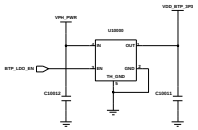
MAIN TO SUB PBA

DISPLAY

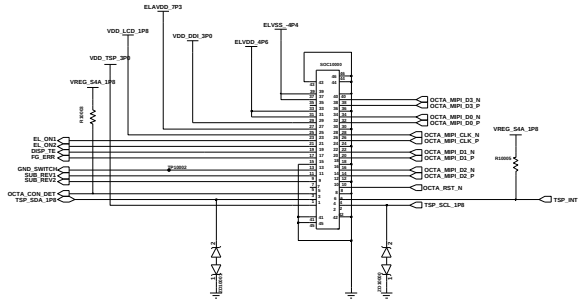




DISPLAY PMIC



FOD LDO



DISPLAY CONN.

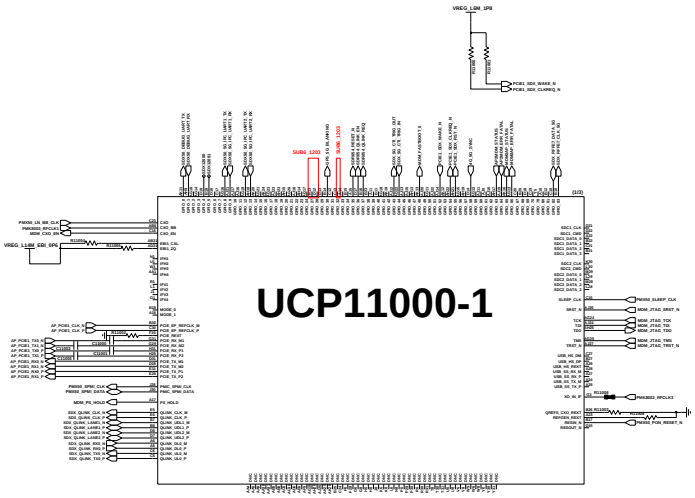
Samsung Confidential

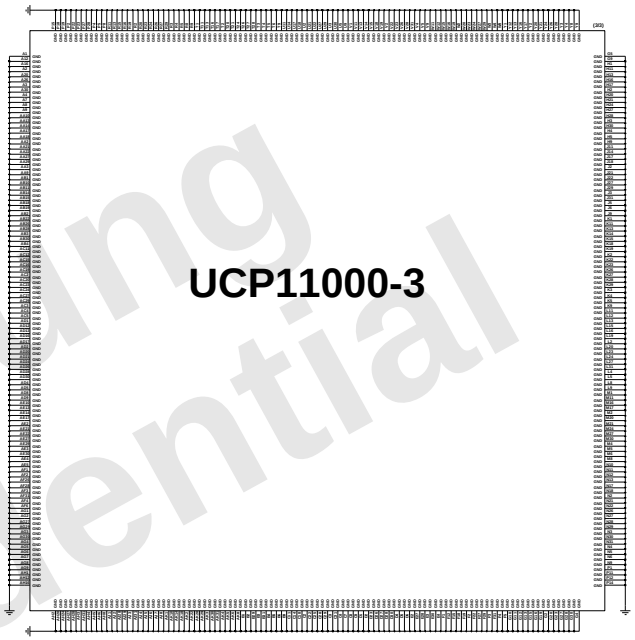
Engineer:	SAMSUNG ELECTRONICS
Design by:	
Check by:	
RDD CHK:	TITLE: SDM855
DOC CTRL CHK:	
MFG ENGR CHK:	
QA CHK:	REV: Drawing Number: Page: 1

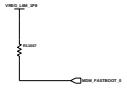
Changed by: jaeo0 | Date Changed: Thursday, June 20, 2019 | Time Changed: 10:10:30 am

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

5G_V2_MODEM

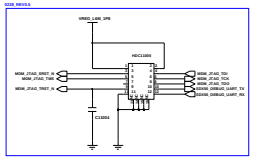






FASTBOOT[2:0]	MODE
000	
001	PCIe
010	
011	

SDX50M BOOT Configuration



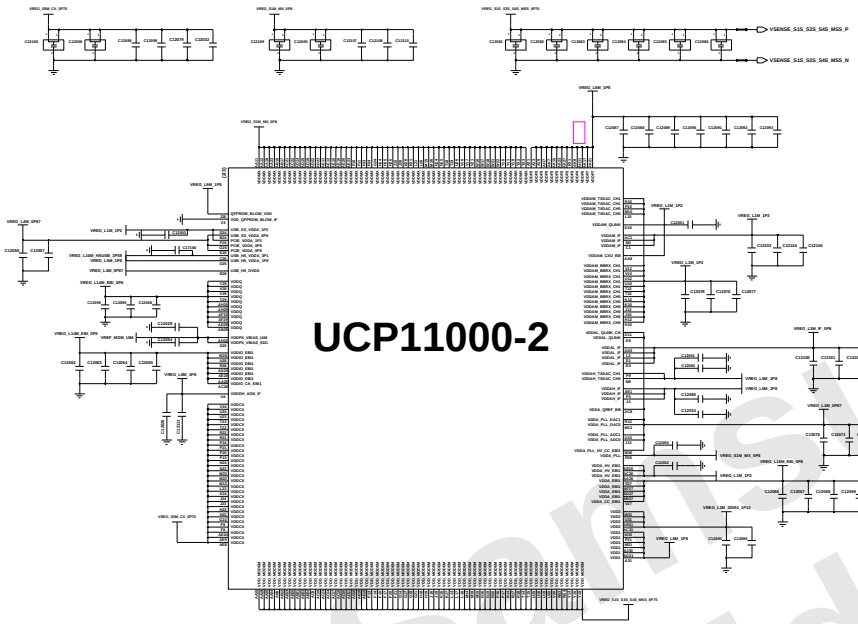
JTAG for SDX50M Debug

Samsung Confidential

Engineer:	SAMSUNG ELECTRONICS				
Drawn by:					
R&D CHK:	TITLE: QC_V1			Size:	
DOC CTRL CHK:					
MFG ENGR CHK:					
Changed by:	Date Changed: Thursday, December 1, 2016	Time Changed: 3:17:21 pm	QA CHK:	REV:	Drawing Number:	Page: 11

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

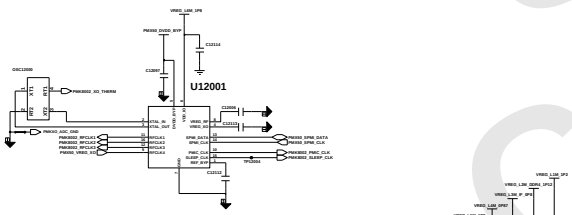
5G_V2_POWER



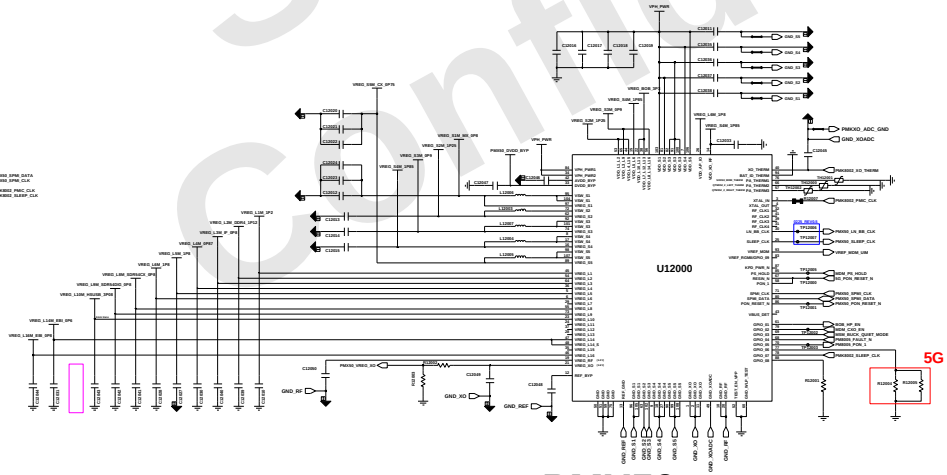
5G CP H/W ID table

HW ID	BOARD REVISION	Value	Mech
00	A90 5G REV0.0 BRING_UP	X	
01	A90 5G REV0.1	6.04K	
02	A90 5G REV0.2	9.1K	
03	SM-A908N REV0.3	12.4K	
04	SM-A908N REV0.4	18K	
05	SM-A908N REV0.5	22K	
06	SM-A908N REV0.5_PR	30K	
07		39K	
08		47K	
09		56K	
10		68K	
11		82K	
12		100K	
13		120K	
14		150K	
15		180K	
16		200K	
17		240K	
18		280K	
19		330K	
20		430K	
21		560K	
22		750K	
23		1000K	
24		1500K	

Samsung Confidential

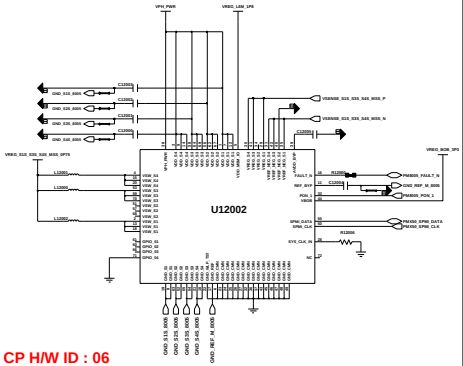


PMK8002
(5G CLK Buffer)



5G CP H/W ID : 06

PMX50
(5G PMIC)

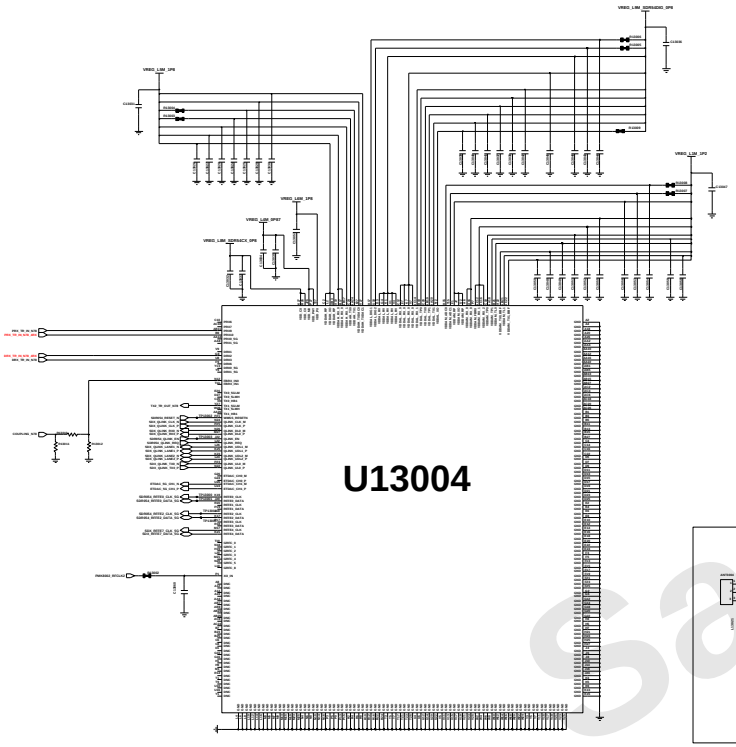


PM8005
(5G Sub PMIC)

Engineer:	SAMSUNG ELECTRONICS		
Drawn by:			
R&D CHK:	TITLE: QC_V1	Size:	
DOC CTRL CHK:			
MFG ENGR CHK:			
Changed by:	Date Changed:	Time Changed:	QA CHK:
REV:	Drawing Number:	Page:	

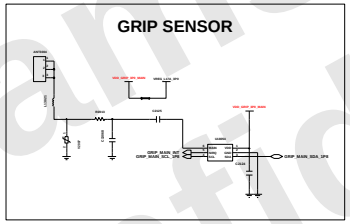
SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL
PROPRIETARY INFORMATION THAT IS
SAMSUNG ELECTRONICS CO'S PROPERTY.
DO NOT DISCLOSE THIS DOCUMENT TO THIRD PARTIES
EXCEPT AS AUTHORIZED BY SAMSUNG.

SUB6_TRCV

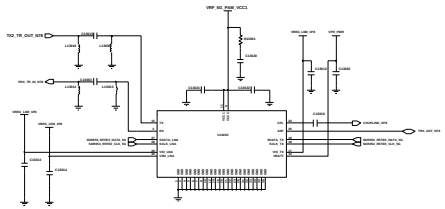


SUB6_B41+N41

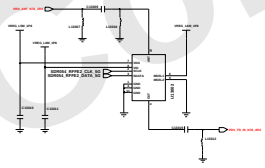
GRIP SENSOR



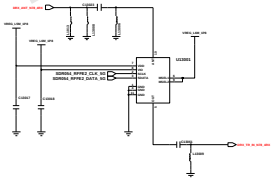
UHB ANT1 (N78 TRX) - NEW



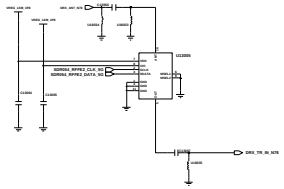
UHB LPAMID



UHB ANT2 (N78 PRX_4RX) -> M1-2

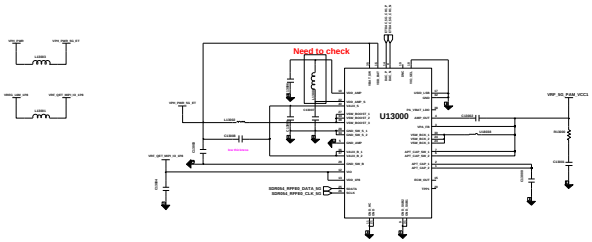


UHB ANT3 (N78 DRX_4RX) -> S3



UHB ANT4 (N78 DRX) -> Temporary S1

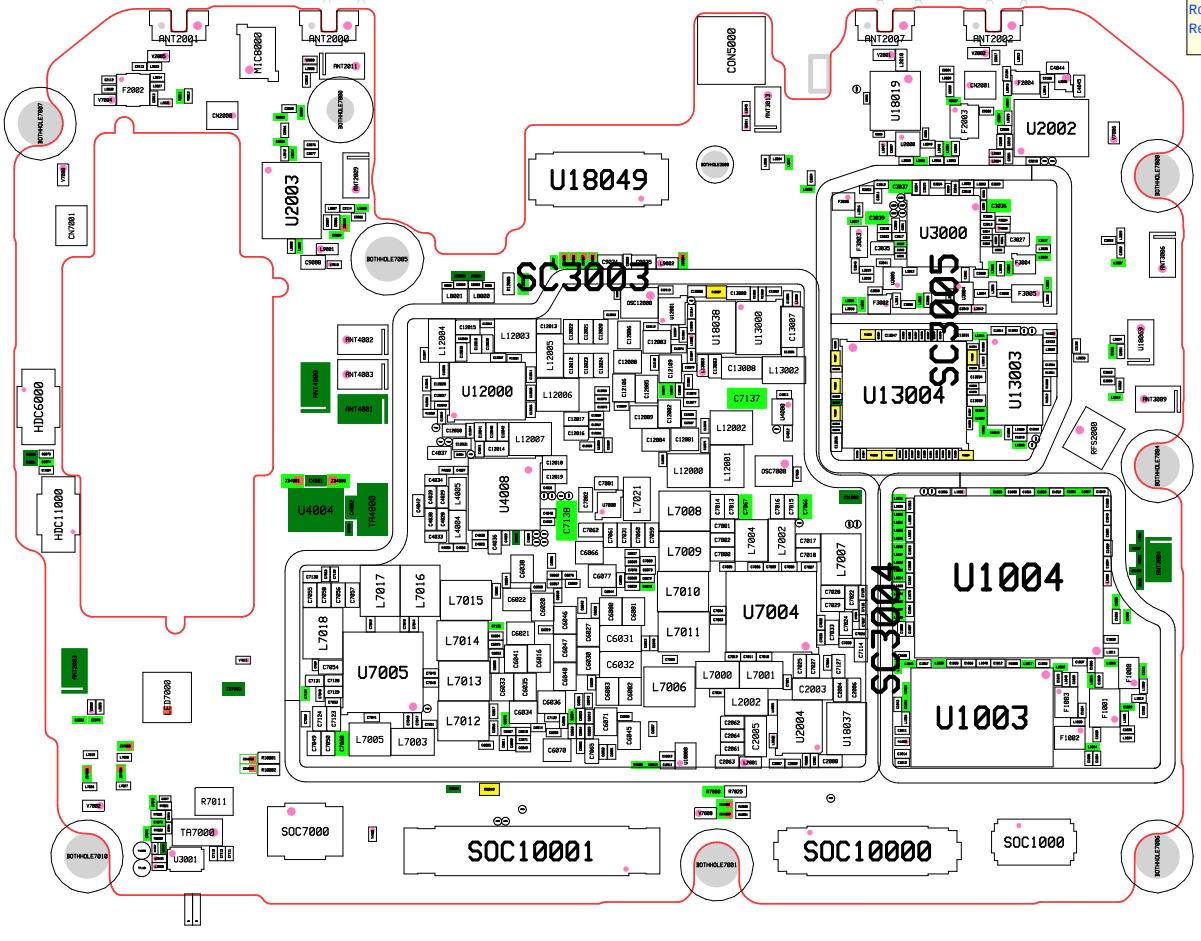
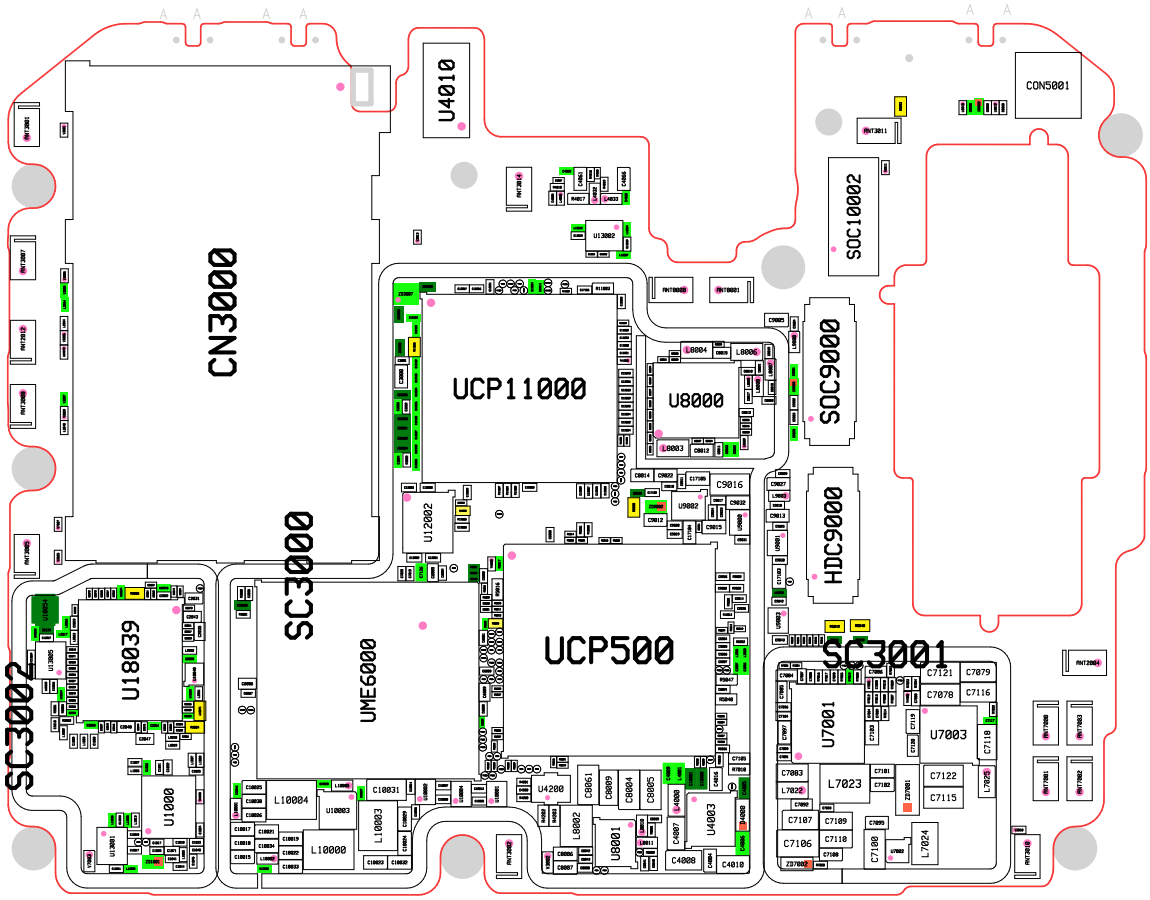
5G ET Modulator



Samsung Confidential

user|swcad61|10.253.15.70|20190827-160037

Model :
Revision :
Manufacture Count :
Charge :
Contact :
Date :
Routing :
Resin :



Model :
Revision :
Manufacture Count :
Charge :
Contact :
Date :
Routing :
Resin :