efrcom Lütfi Çağıl
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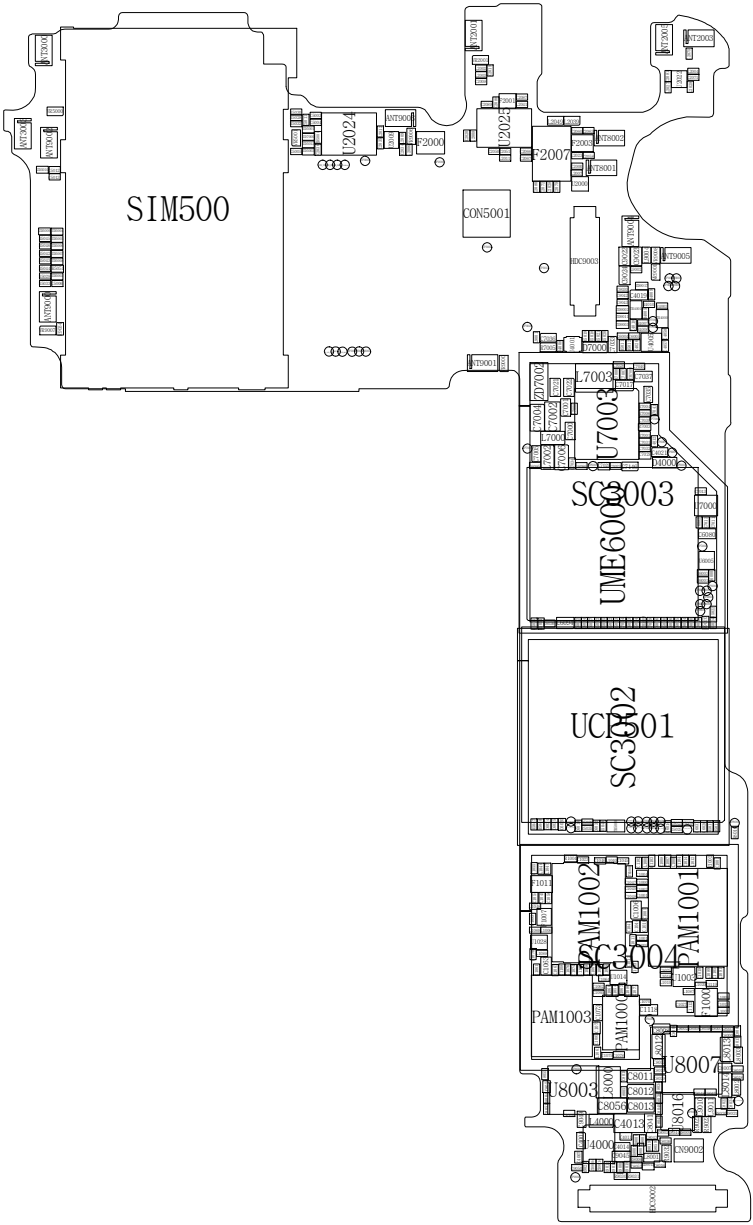

JTAG6000

JTAG6001

JTAG6002

JTAG6003

U3000
U4002
U4014
U7010
U7005
U9011
U2010
U2011
SC3006
SC3007
SC3000
SC3005
SUS9002
SUS9007
U4011
U4012
U4007
HDC7000
HDC6000
LED7000
CON5000
TA7002
TA7006
TA7103
C7104
C7087
C7086
C7022
C4001
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SM-G930V_REV08

2016.01.11

sheet01 : GSM / WCDMA / LTE RF
sheet02 : DIVERSITY
sheet03 : TRANSCEIVER, QFE3100, GPS
sheet04 : SENSORS, HUB, BT/WIFI, NFC, FM
sheet05 : MSM8996
sheet06 : MSM8996, MEMORY
sheet07 : POWER (PMIC), IF PMIC
sheet08 : AUDIO Codec, 2-MIC
sheet09 : DISPLAY, CAM, SUB PCB CON

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Engineer: SAMSUNG ELECTRONICS KOREA	SAMSUNG ELECTRONICS
Drawn by: R&D TEAM - KOREA	
R&D Chk:	TITLE: SM-N910S
DOC CTRL Chk:	
SPG ENGR Chk:	
QA Chk:	REV: Drawing Number: Page:

Checked by: jaeeth | Date Changed: Friday, April 29, 2016 | Time Changed: 11:31:32 am

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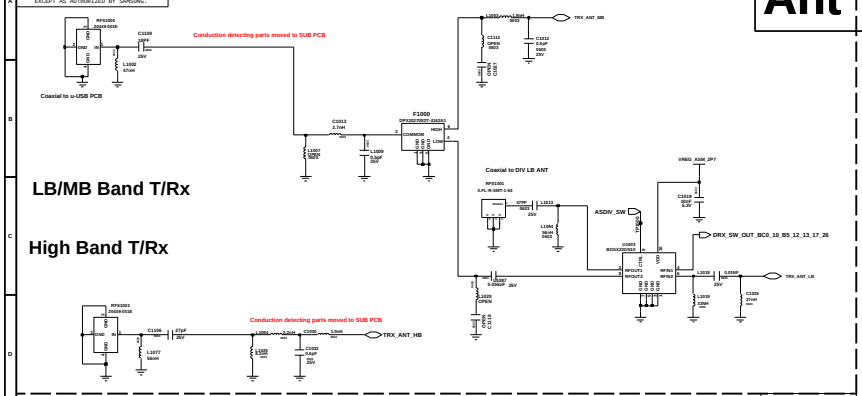
Ant

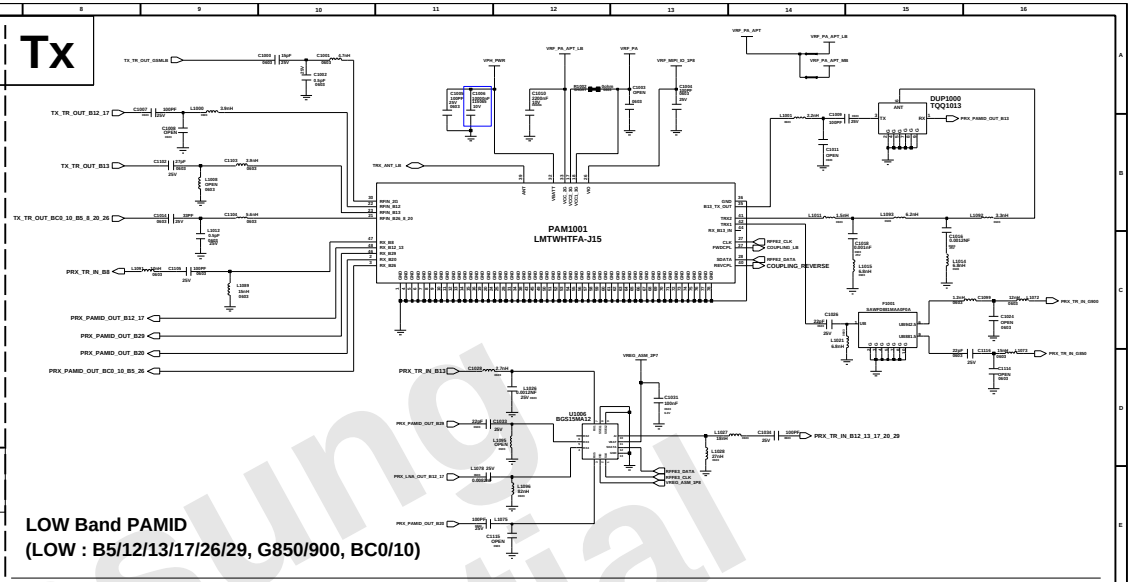
LB/MB Band T/Rx

High Band T/Rx

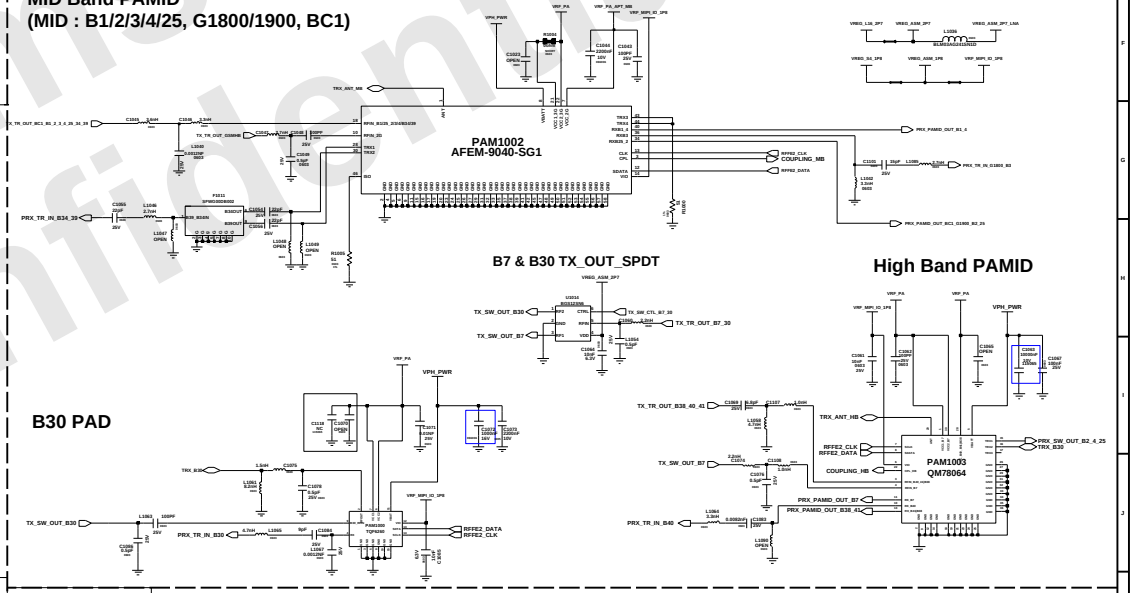


Tx

LOW Band PAMID
(LOW : B5/12/13/17/26/29, G850/900, BC0/10)



MID Band PAMID
(MID : B1/2/3/4/25, G1800/1900, BC1)



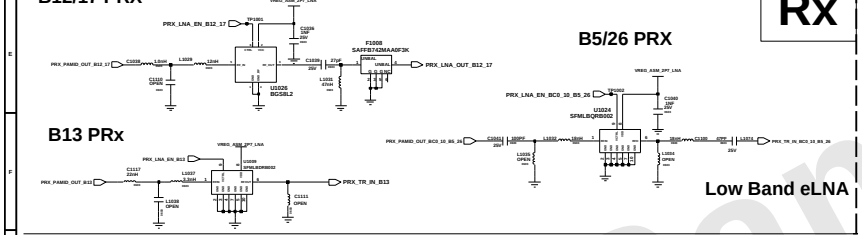
Rx

B12/17 PRX

B5/26 PRX

B13 PRx

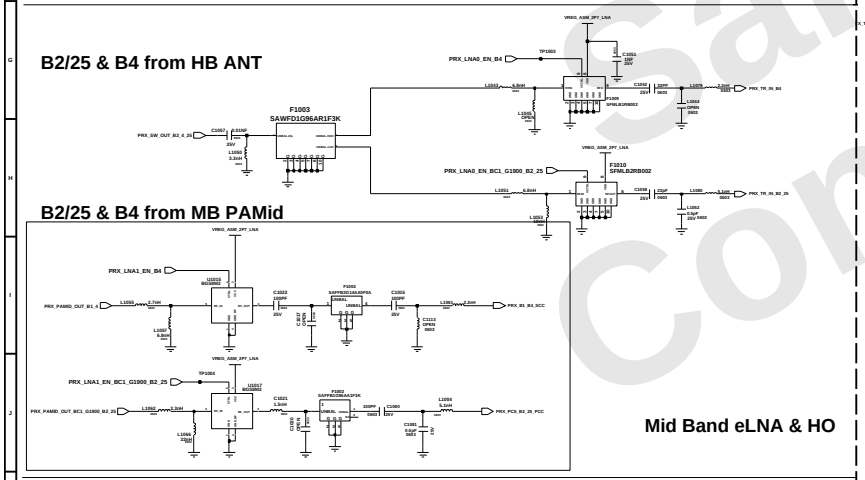
Low Band eLNA



B2/25 & B4 from HB ANT

B2/25 & B4 from MB PAMid

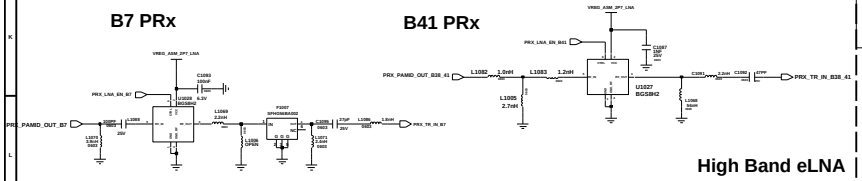
Mid Band eLNA & HO



B7 PRx

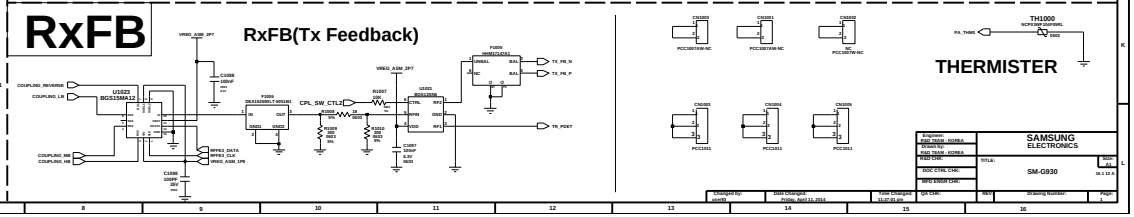
B41 PRx

High Band eLNA



RxFB

RxFB(Tx Feedback)



THERMISTER

Engineer: SAMSUNG ELECTRONICS KOREA	SAMSUNG ELECTRONICS		
Design By: SAMSUNG ELECTRONICS KOREA			
R&D TEAM : KOREA R&D CHK:	TITLE: SM-G930		
DOC CTRL CHK:			
INFO ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page: 1
Designed by: jsun89	Date Designed: Friday, April 11, 2014	Time Designed: 11:27:22 am	

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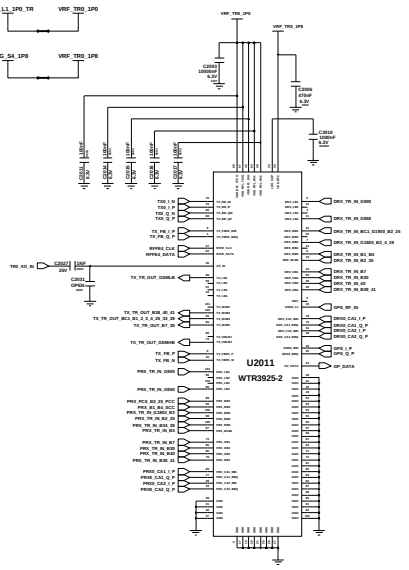
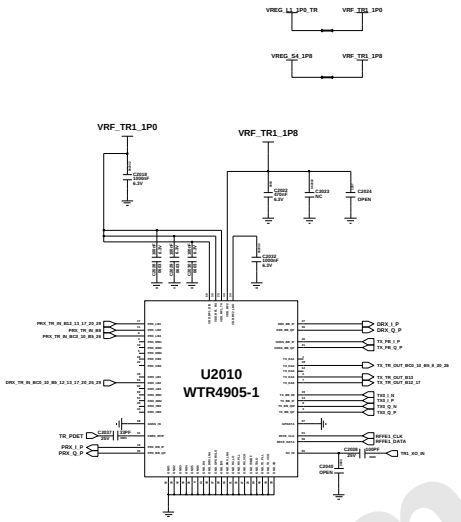


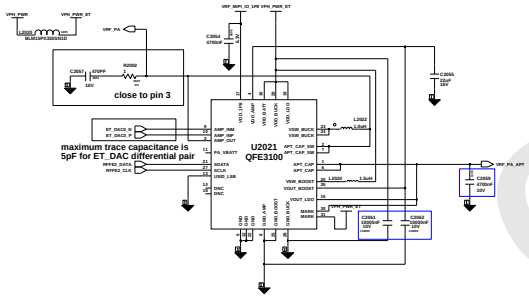
WTR3925-2



WTR4905-1

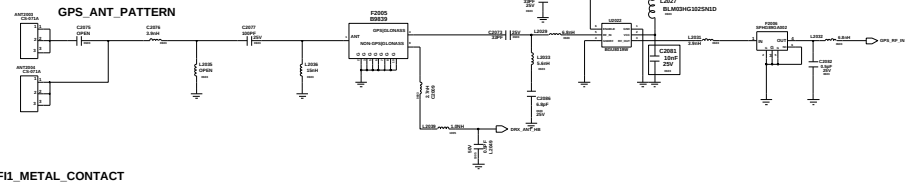
ET PMIC

QFE3100



GPS

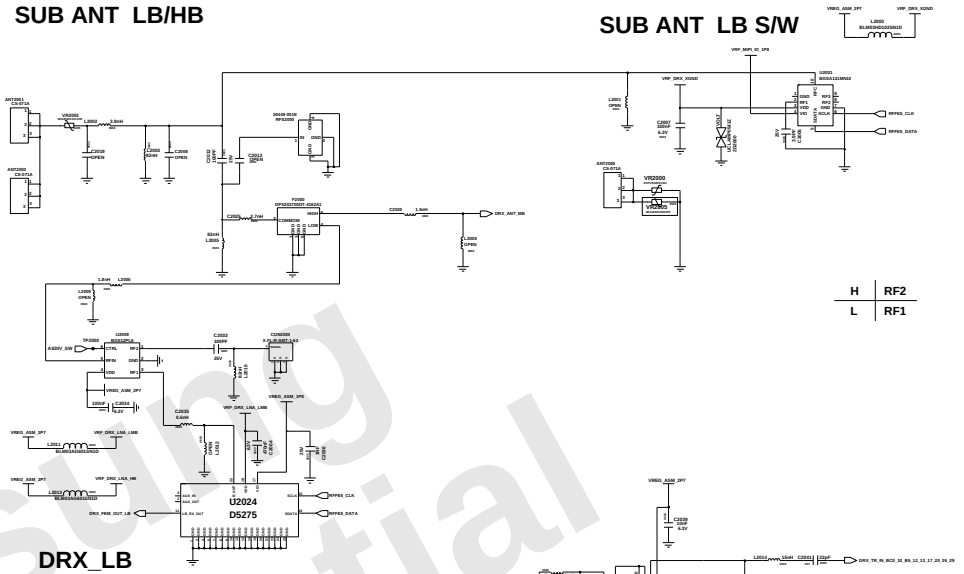
GPS_ANT_PATTERN



WIFI1_METAL_CONTACT

SUB ANT LB/HB

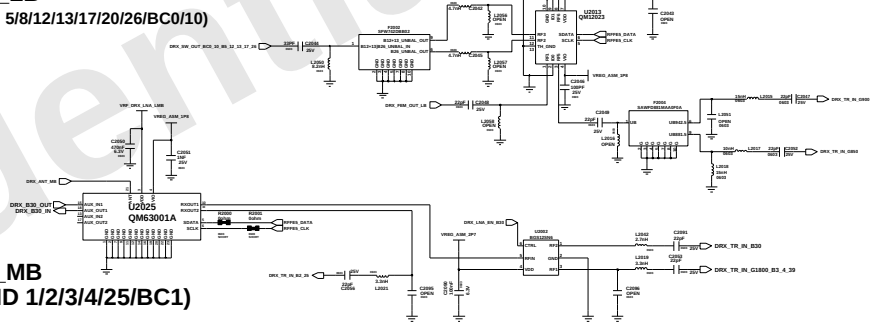
SUB ANT LB S/W



H	RF2
L	RF1

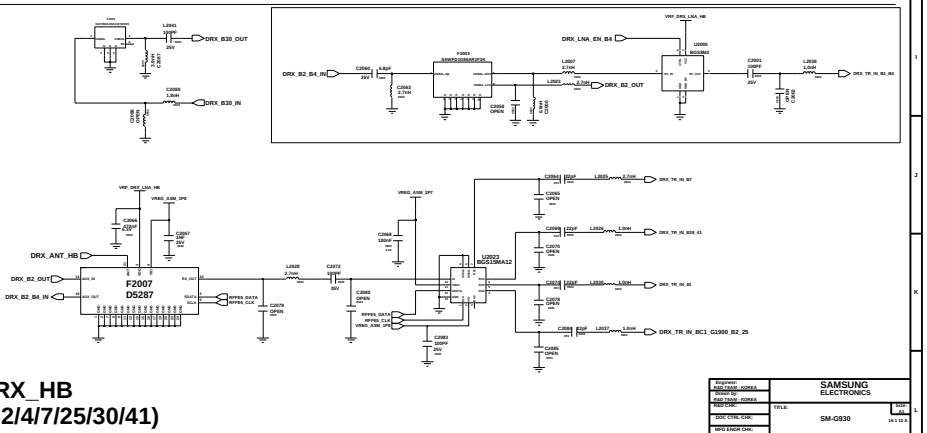
DRX_LB

(BAND 5/8/12/13/17/20/26/BC0/10)



DRX_MB

(BAND 1/2/3/4/25/BC1)



DRX_HB

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

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Engineer: SAMSUNG ELECTRONICS KOREA	SAMSUNG ELECTRONICS
Design No: RND CHK:	TITLE: SM-G930
DOC CTRL CHK:	
MFG ENGR CHK:	
QA CHK:	REV: Drawing Number: Page: 1

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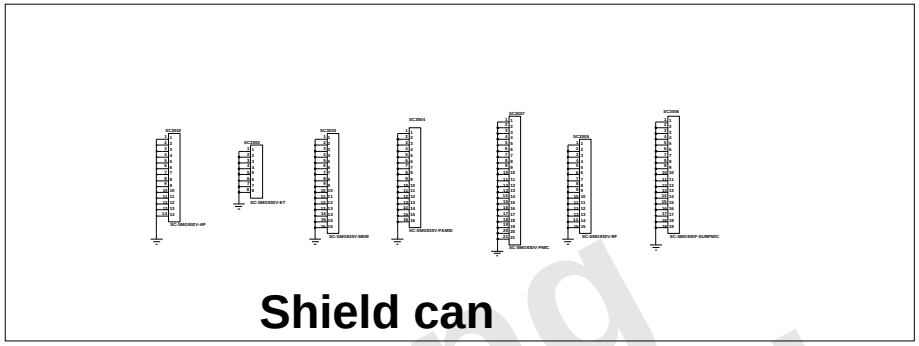
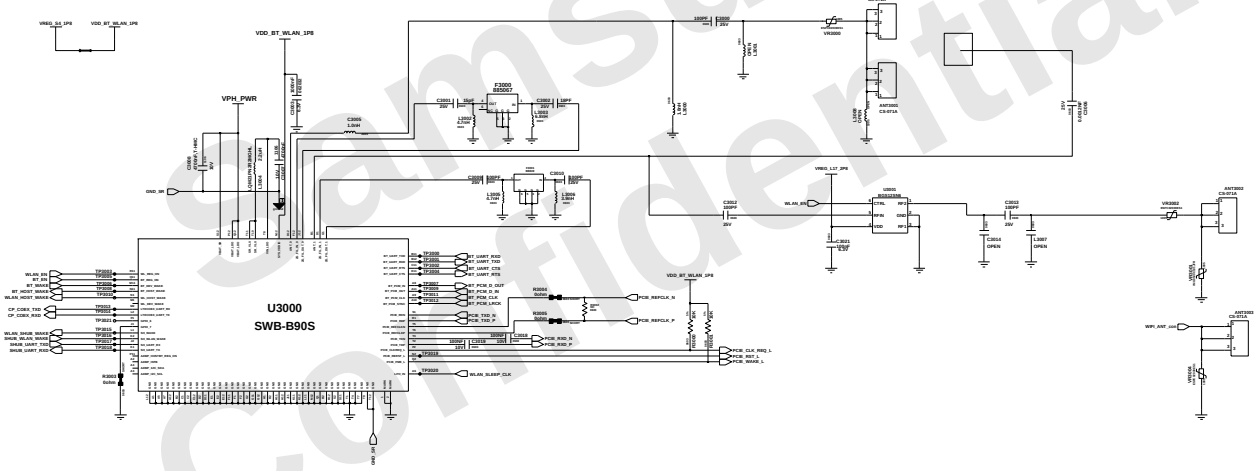
BT/WIFI



Shield can



BCM4359 Module

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Engineer: SAMSUNG ELECTRONICS KOREA	SAMSUNG ELECTRONICS		
Drawn by:			
R&D TEAM - KOREA			
R&D CHK:	TITLE: SM-G930	SIZE: A4	14.1.22 A
DOC CTRL CHK:			
MFG ENGR CHK:			
QA CHK:	REV:	Drawing Number:	Page: 4

Changed by: jaeo99	Date Changed: Friday, April 11, 2014	Time Changed: 11:37:32 am

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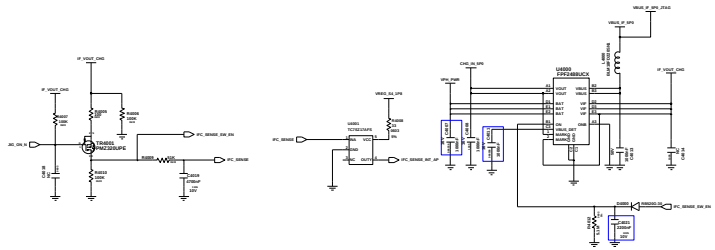
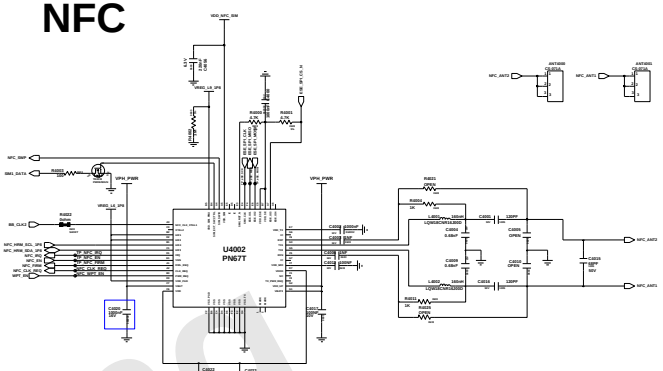
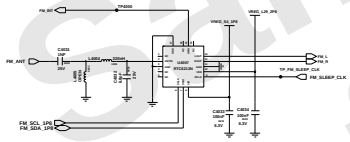
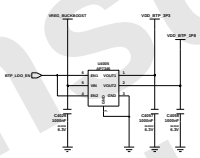


NFC

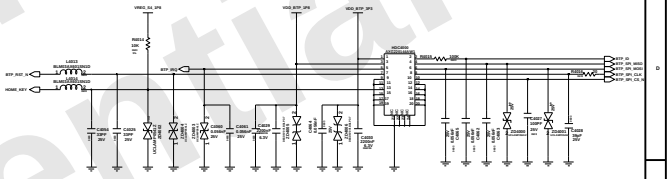




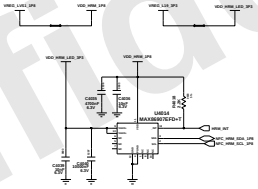
FM RADIO



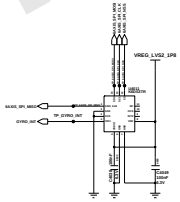
BTP OCP and PWR



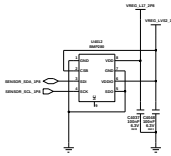
HOME_BTP_TOUCH



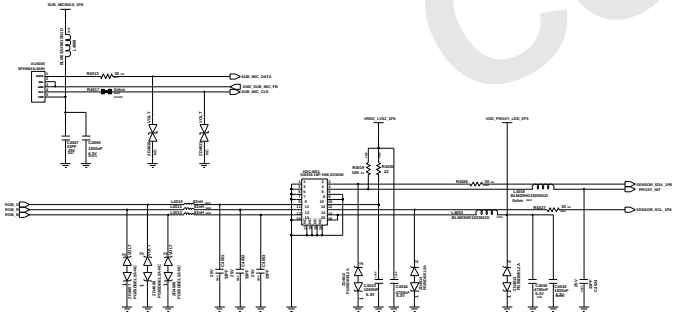
HRM SENSOR



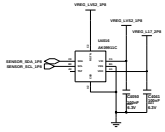
6 Axis Sensor (GYRO,ACCEL)



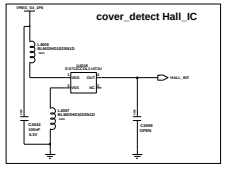
Barometer Sensor



Prox & MIC & LED CON.



Magnetic Sensor



Hall Sensor

Engineer:	BT/WIFI, NFC, SENSOR				
Drawn by:					
R&D CHK:	TITLE:			Size:	
DOC CTRL CHK:	SM-G930				
MFG ENGR CHK:					
Changed by:	Date Changed:	Time Changed:	QA CHK:	REV:	Drawing Number:	Page:

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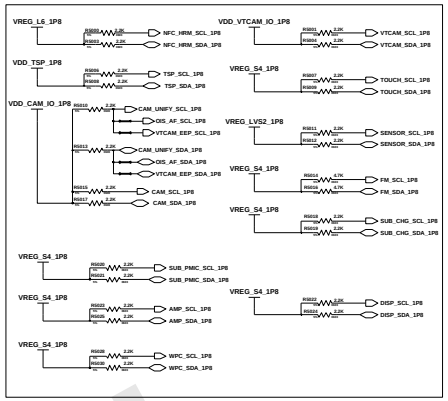
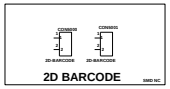
MSM8996 1/2

** V1.1 : No Shunt Cap
SPM Design Guide (MSM8974Pro V1.0)
15pF (+/-10%) Shunt cap. without Stub.
Trace Parameter : L=1.65inH, R=70m ohm
Routing Order : MSM -- Shunt -- PMIC
CLK & DATA Spacing : at least 3W
The length mismatching < 2mm (Data & CLK)
(DATA & Clock SEN, EN=0, PMIC DRV Strength=1t)

I2C PULL UP

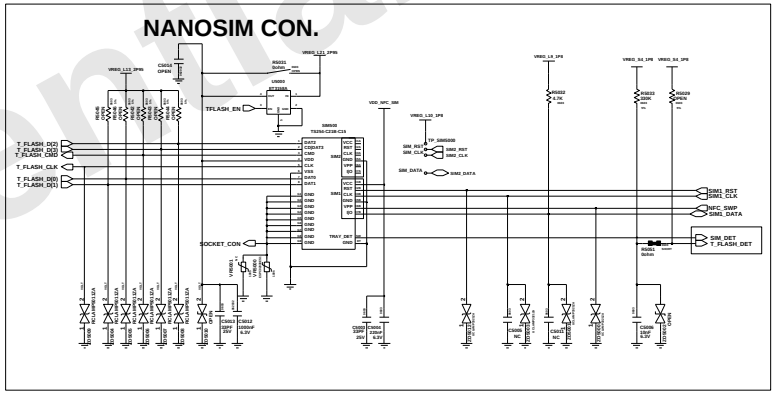


2D BARCODE



UCP501-1
MSM8996

NANOSIM CON.



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Engineer	AP(GPIO), SIM/SD CARD
Issued by	
R&D CHK:	TITLE: SM-G930
DOC CTRL CHK:	REV: A1
MFG ENGR CHK:	
QA CHK:	Drawing Number

Changed By | Date Changed | Total Changed

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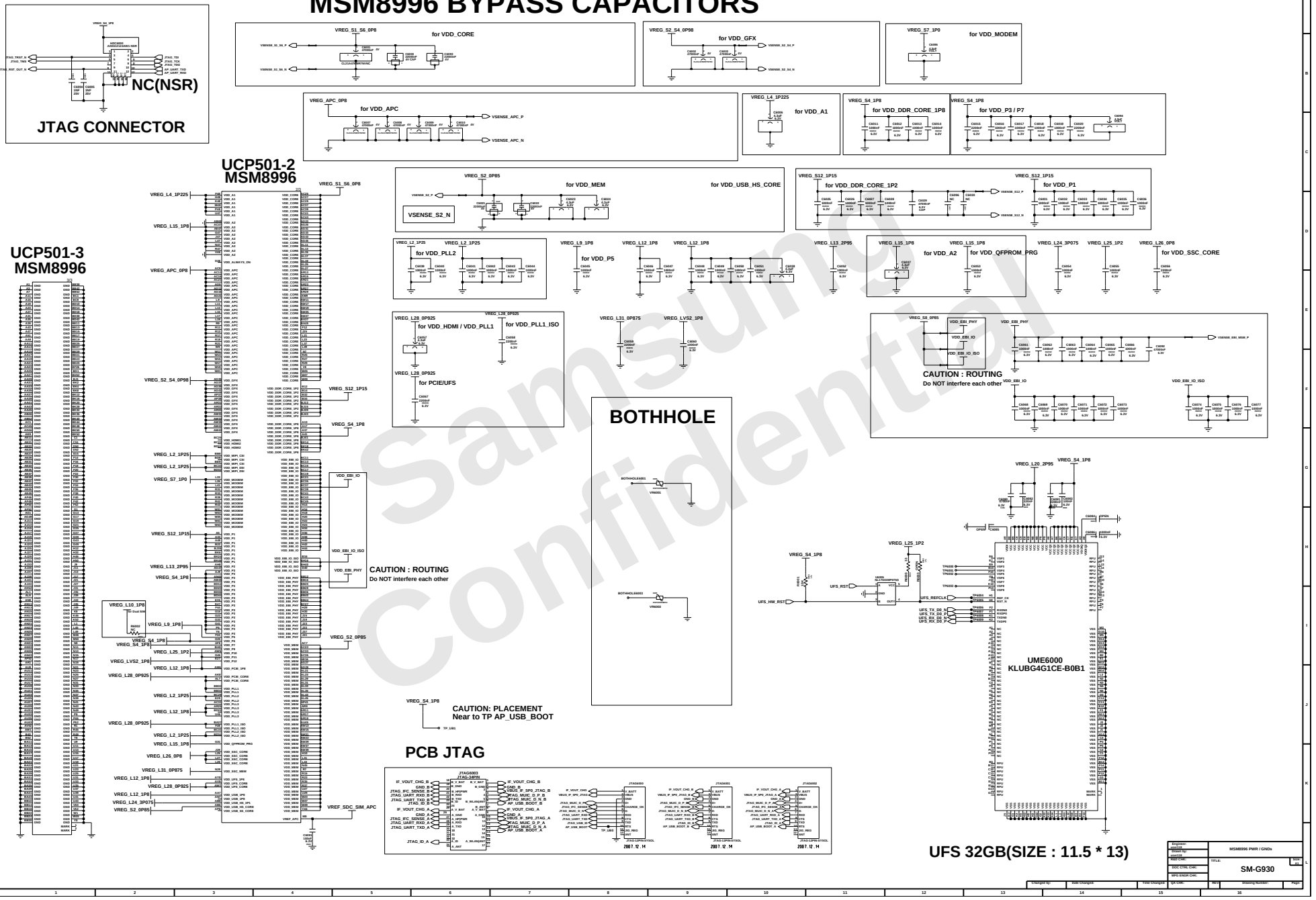
MSM8996 BYPASS CAPACITORS



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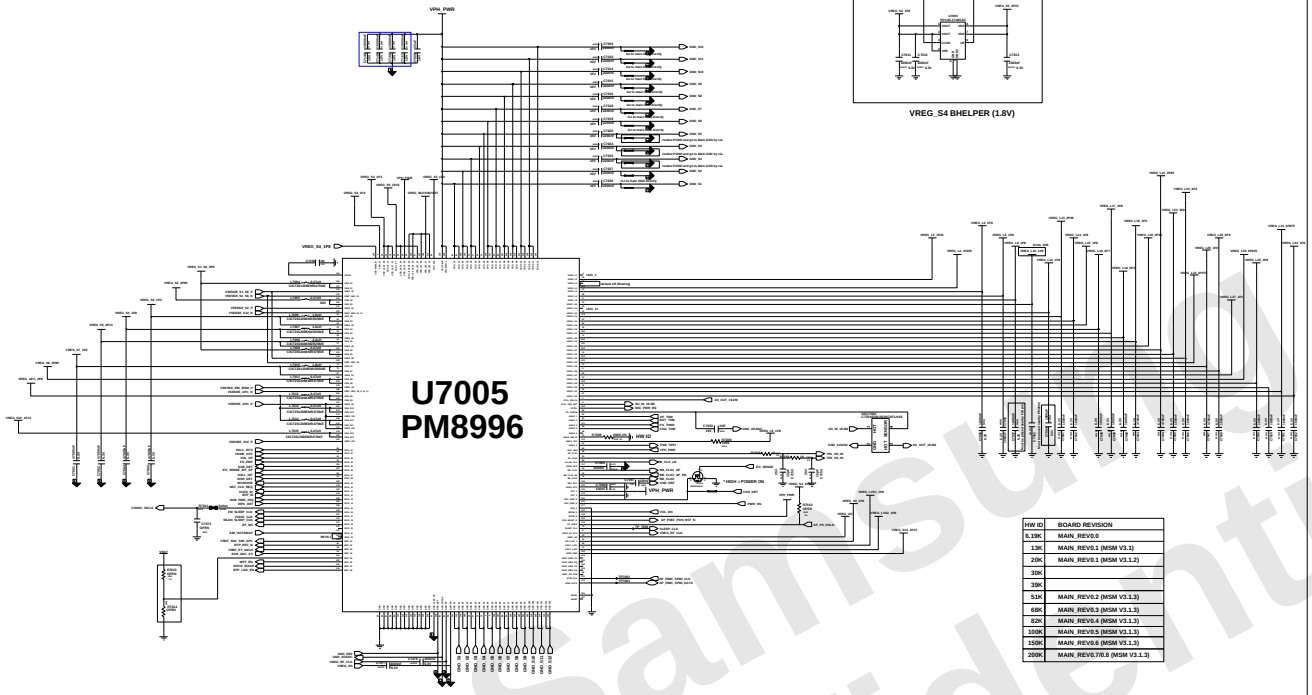
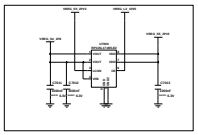
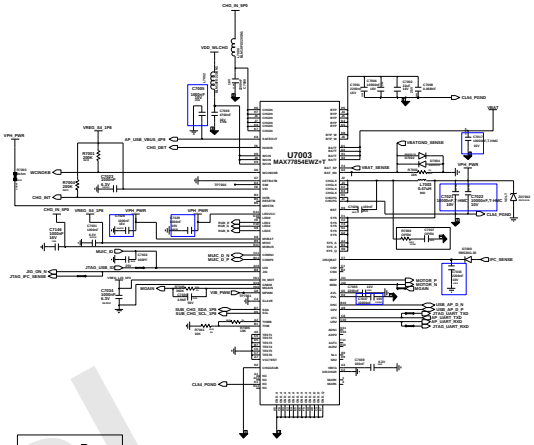
POWER



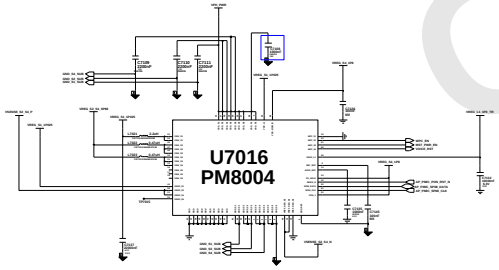


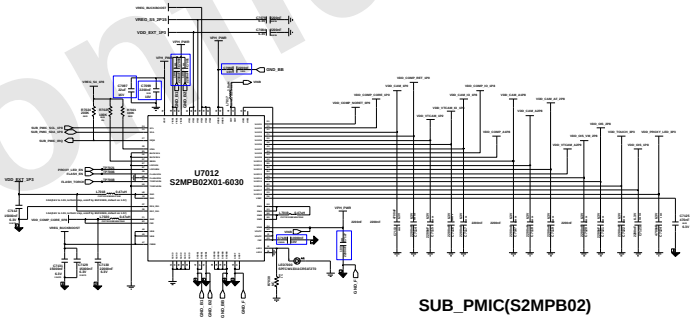
VREG_S4 BHELPER (1.8V)

HW ID	BOARD REVISION
6.19K	MAIN_REV0.0
13K	MAIN_REV0.1 (MSM V3.1)
20K	MAIN_REV0.1 (MSM V3.1.2)
30K	
39K	
51K	MAIN_REV0.2 (MSM V3.1.3)
68K	MAIN_REV0.3 (MSM V3.1.3)
82K	MAIN_REV0.4 (MSM V3.1.3)
100K	MAIN_REV0.5 (MSM V3.1.3)
150K	MAIN_REV0.6 (MSM V3.1.3)
200K	MAIN_REV0.7/0.8 (MSM V3.1.3)

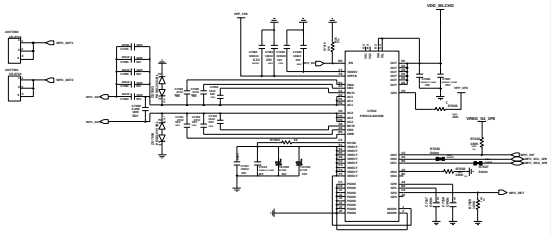


REV0.7





SUB_PMIC(S2MPB02)



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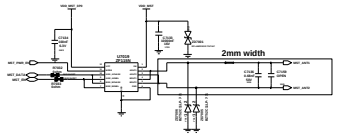
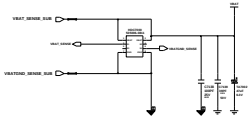
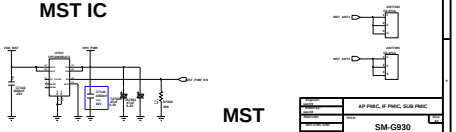


MST IC



Battery Connector



MST

Samsung Electronics	AP PMIC, IF PMIC, SUB PMIC
SM-G930	

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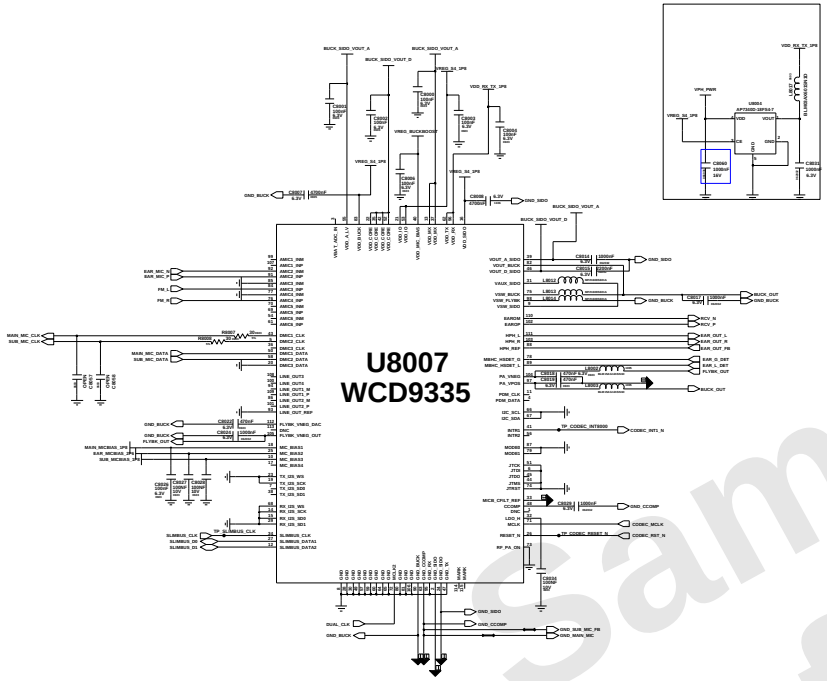
AUDIO PART



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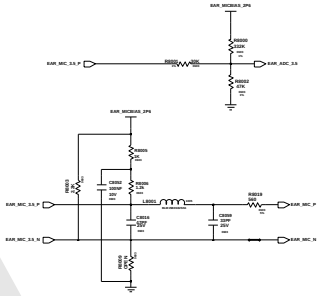

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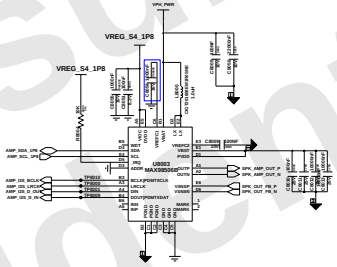

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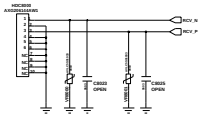

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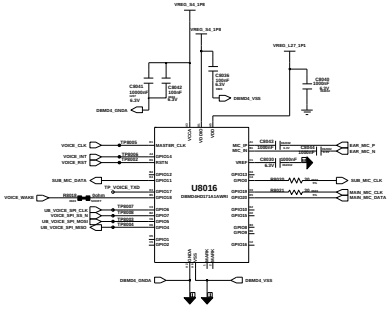
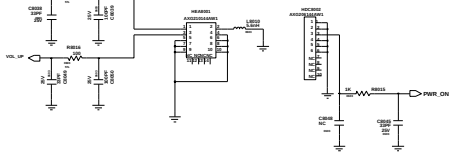


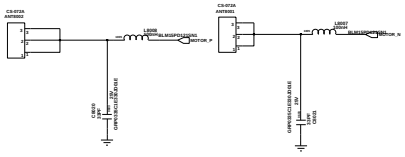
Voicewakeup IC

SPK CONTACT



VOLKEY CONTACT

PWRKEY CONTACT



MOT CONTACT

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Engineer:	AUDIO
SOCIS Sp.	
uisr119	
PWR CHK:	TITLE: SIZE: A1
DOC CTRL CHK:	SM-G930
MFG ENGR CHK:	
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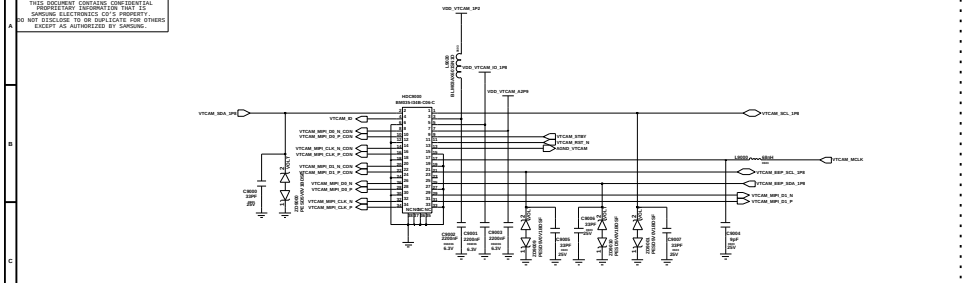
DISPLAY (For WQHD)



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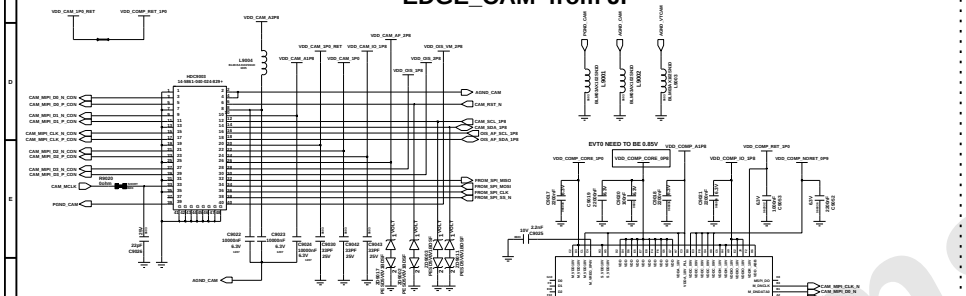
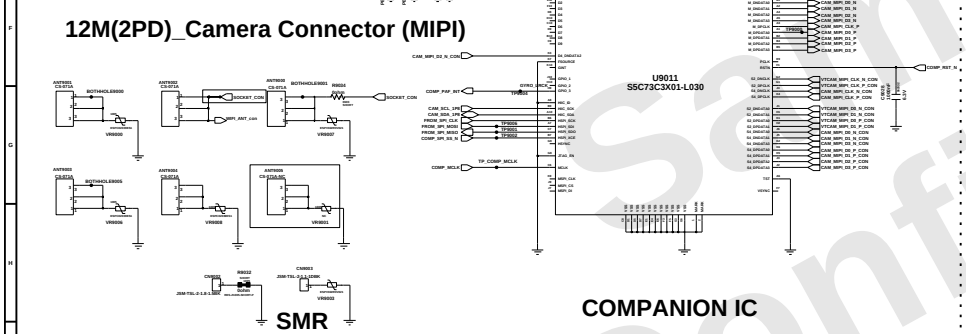


12M(2PD)_Camera Connector (MIPI)



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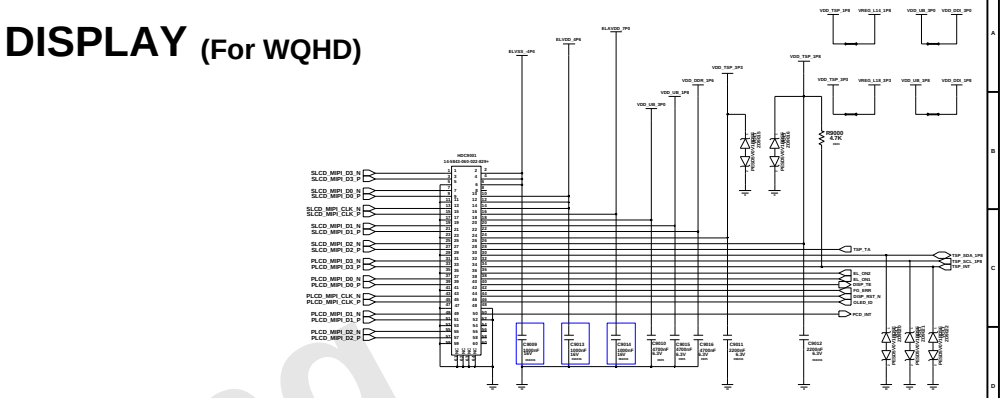
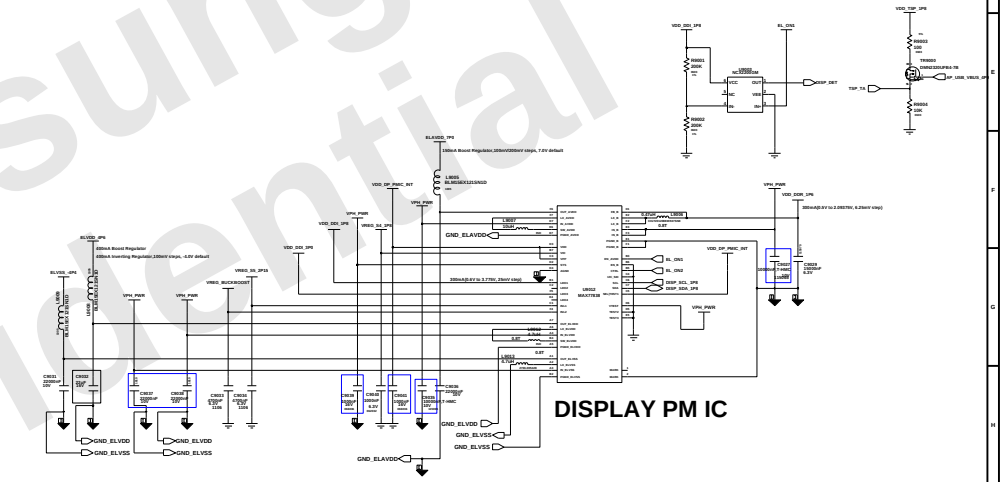
COMPANION IC

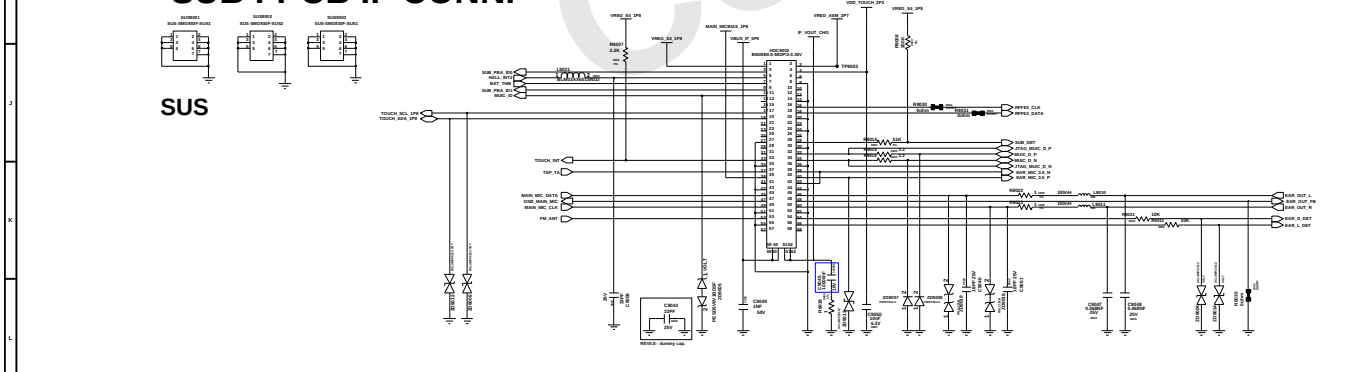


UB Connector



DISPLAY PM IC

SUB FPCB IF CONN.



SUS

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Design No:			
R&D CHK:	TITLE: SM-G930	SIZE: A4	14.1 X A
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user79	Friday, April 25, 2014	11:30:38 am