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#### SM-G986U MASTER REV0.5A

SM-G986U Common

sheet01: RF (1/2) 2019. 11. 28

1216 OPEN -> NC

sheet02: RF (2/2)

sheet03: BT/WIFI, SIM, SHILDCAN

sheet04: NFC, MFC, OVP LS, SENSORS

sheet05: AP\_SM8250

sheet06: AP\_SM8250 POWER/GND, JTAG, UFS

sheet07: PM8250, IF PMIC(CC IC), D/C

sheet08: AUDIO

sheet09: CAMERA

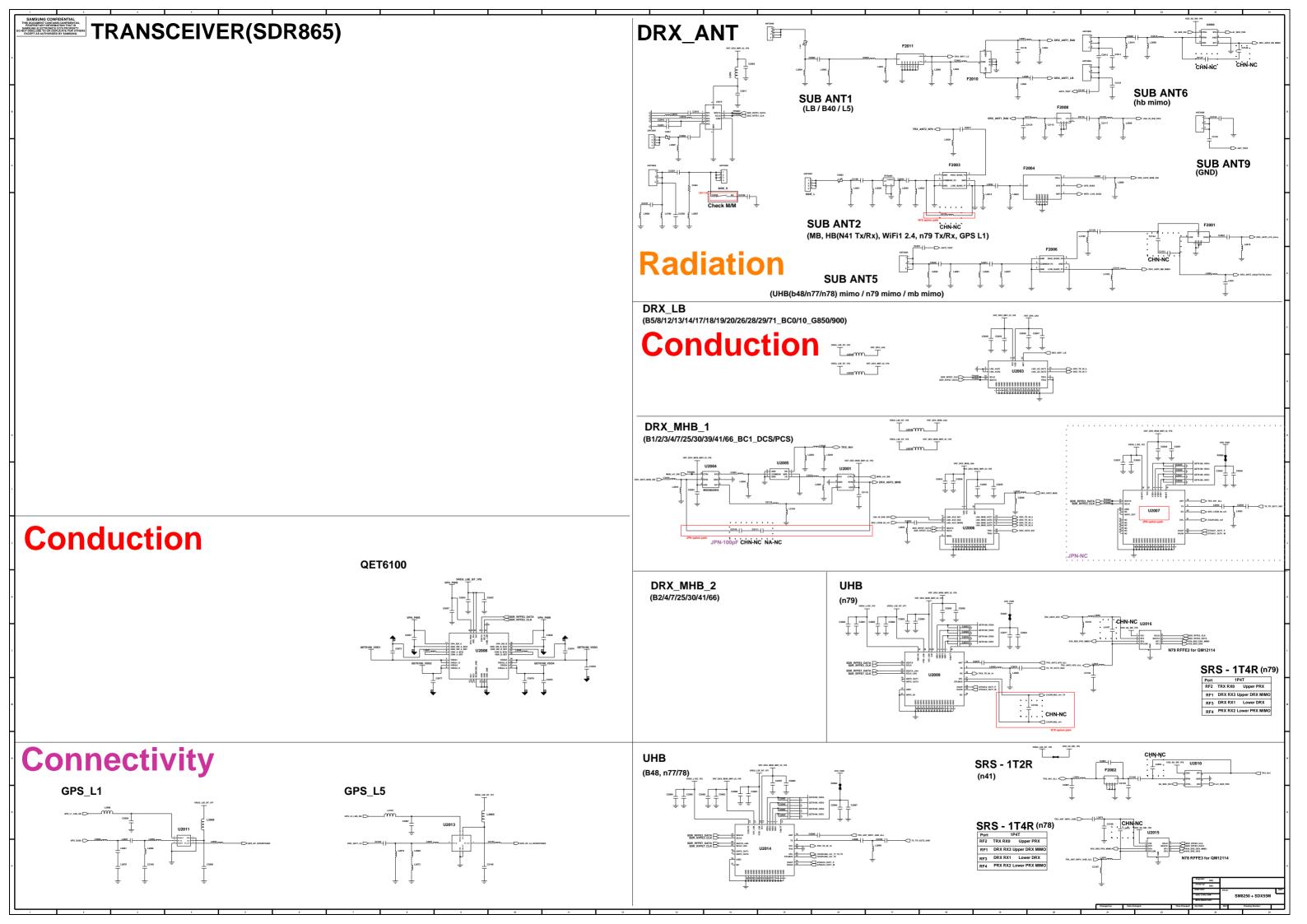
sheet10: DISPLAY

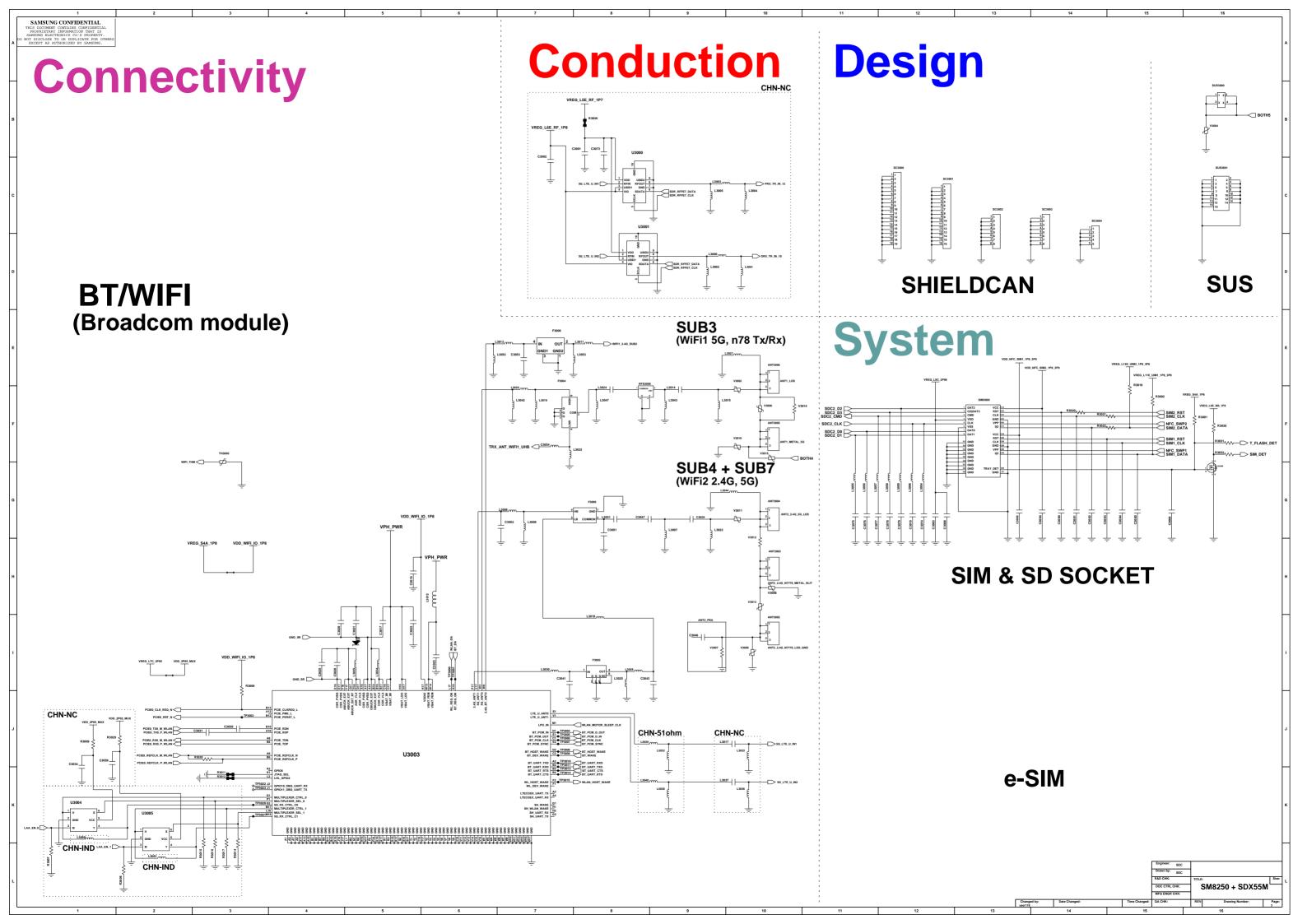
sheet11: CP\_SDX55M

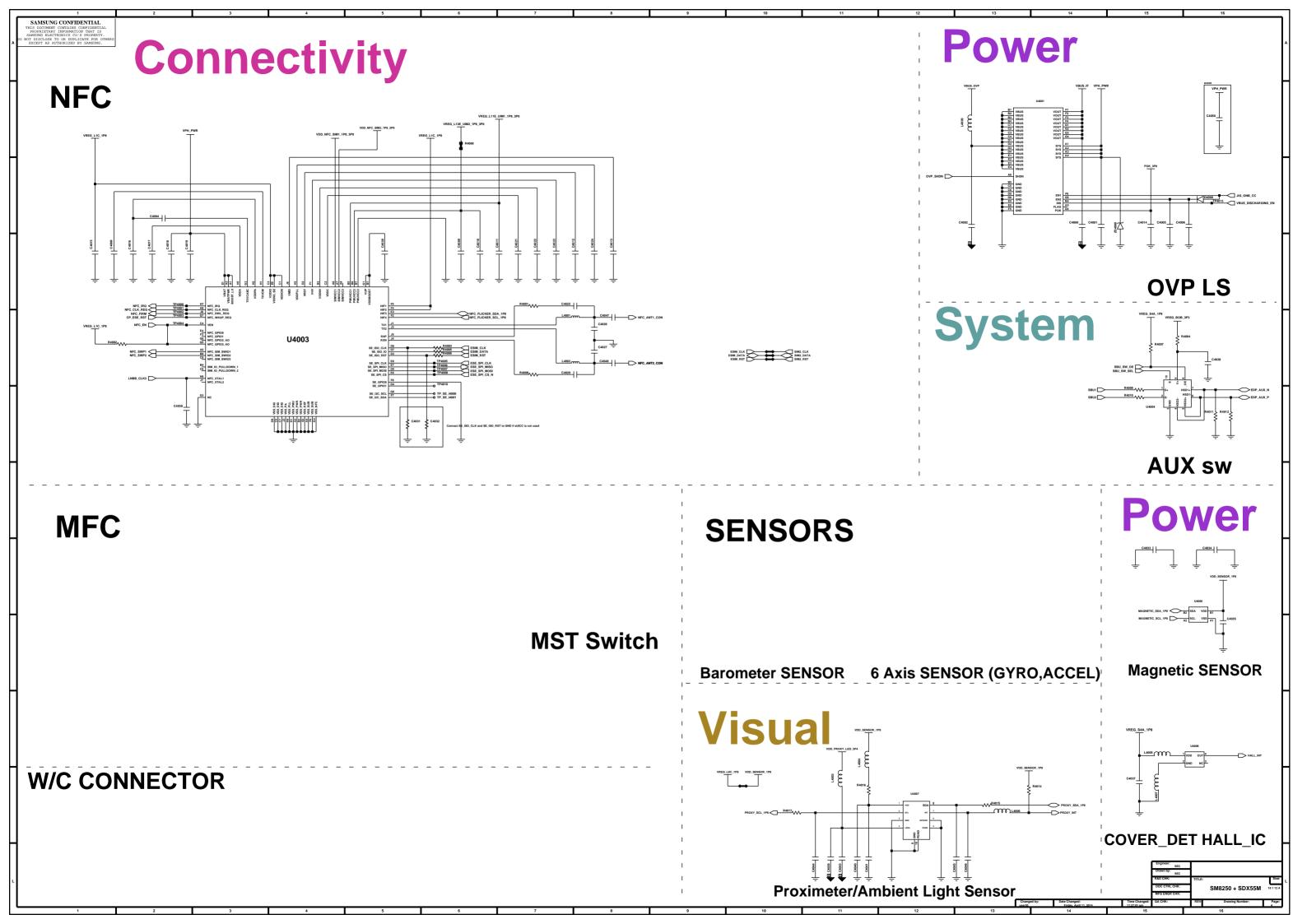
sheet12: CP PMIC, 5G IFIC, 5G Conn

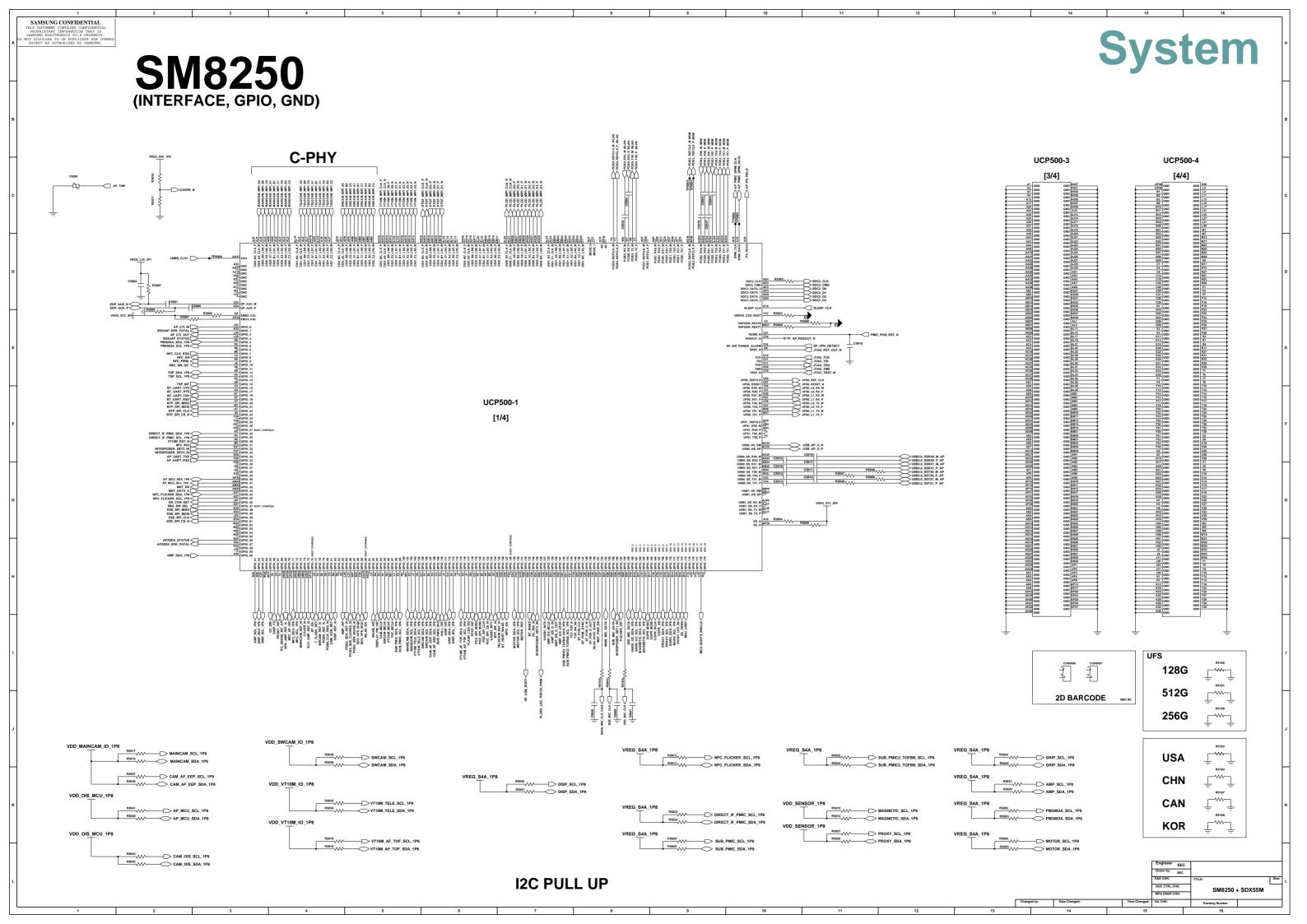
sheet13: INTERPOSER

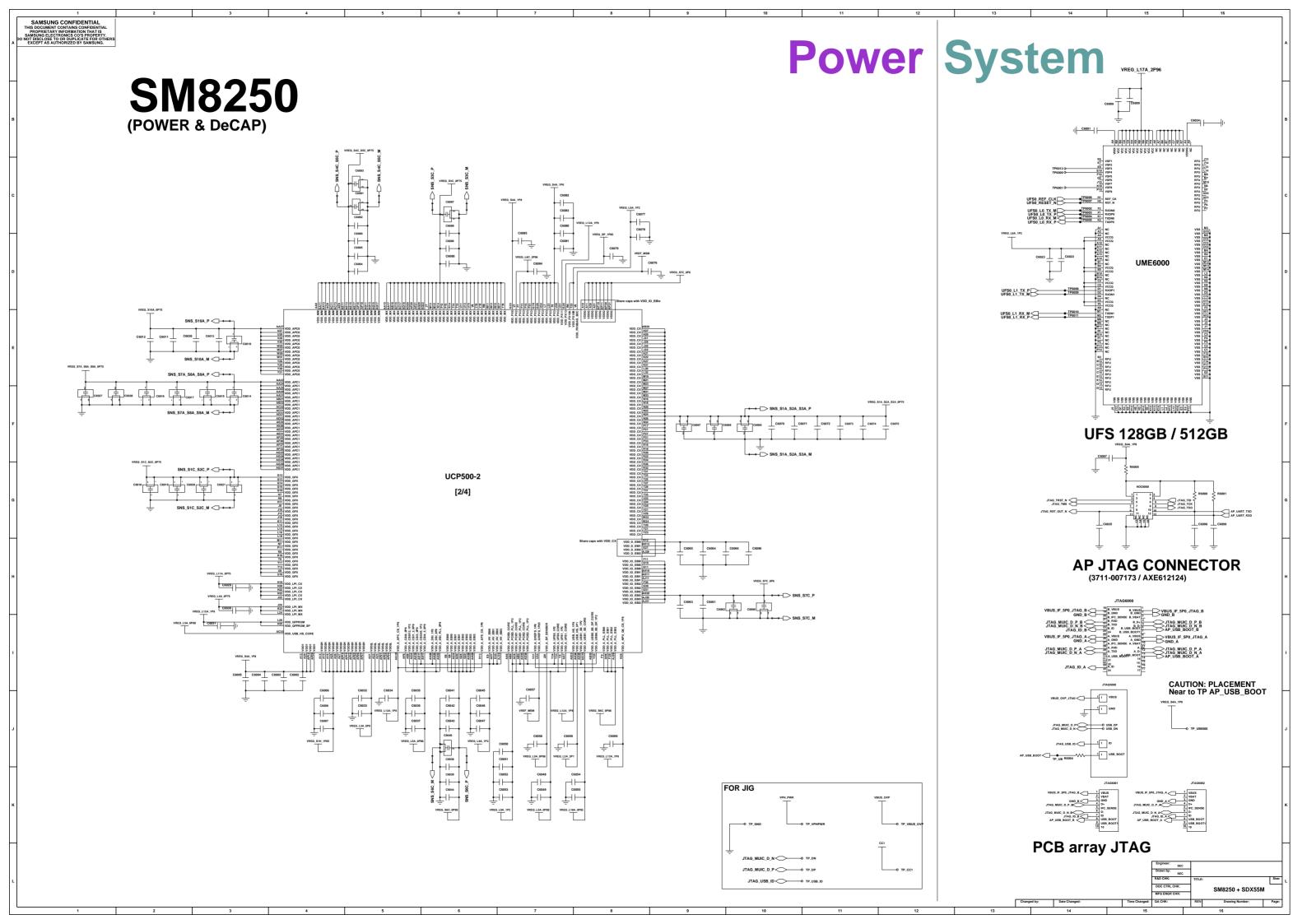
SAMSUNG CONFIDENTIAL THIS ROCHERT CONFIAN CONFIDENTIAL PROPRIETARY PROGRAMON THAT DE LIMITARY RESERVOIRES OF THE PERFORMANCE EXCEPT AS AUTHORIZED BY SAMSUNG.	LB LPAMID (B5/8/12/13/14/17/20/26/28/29/71, G850/900, BC0/10)	9 20 20 20 20
MAIN ANT	, , ,	
MAIN1-1 ANT		
MAIN1-2 ANT		
	OMH LPAMID (B1/2/3/4/7/25/30/34/38/39/40/41/66, G1800/1900, BC1)	
MAIN4 ANT		
MAIN2 ANT		
M1-1 M1-2 M2 M2 M3		
MAIN3 ANT	UHB	
FRC connector	UHB (B48, n77/78/79)	
JPN		
LTE_B21	ET Modulator(QET5100#0)	ET Modulator(QET5100#1)
2G_PA		
	Non-Williams	The Millians
THERMISTER		Equipme MS

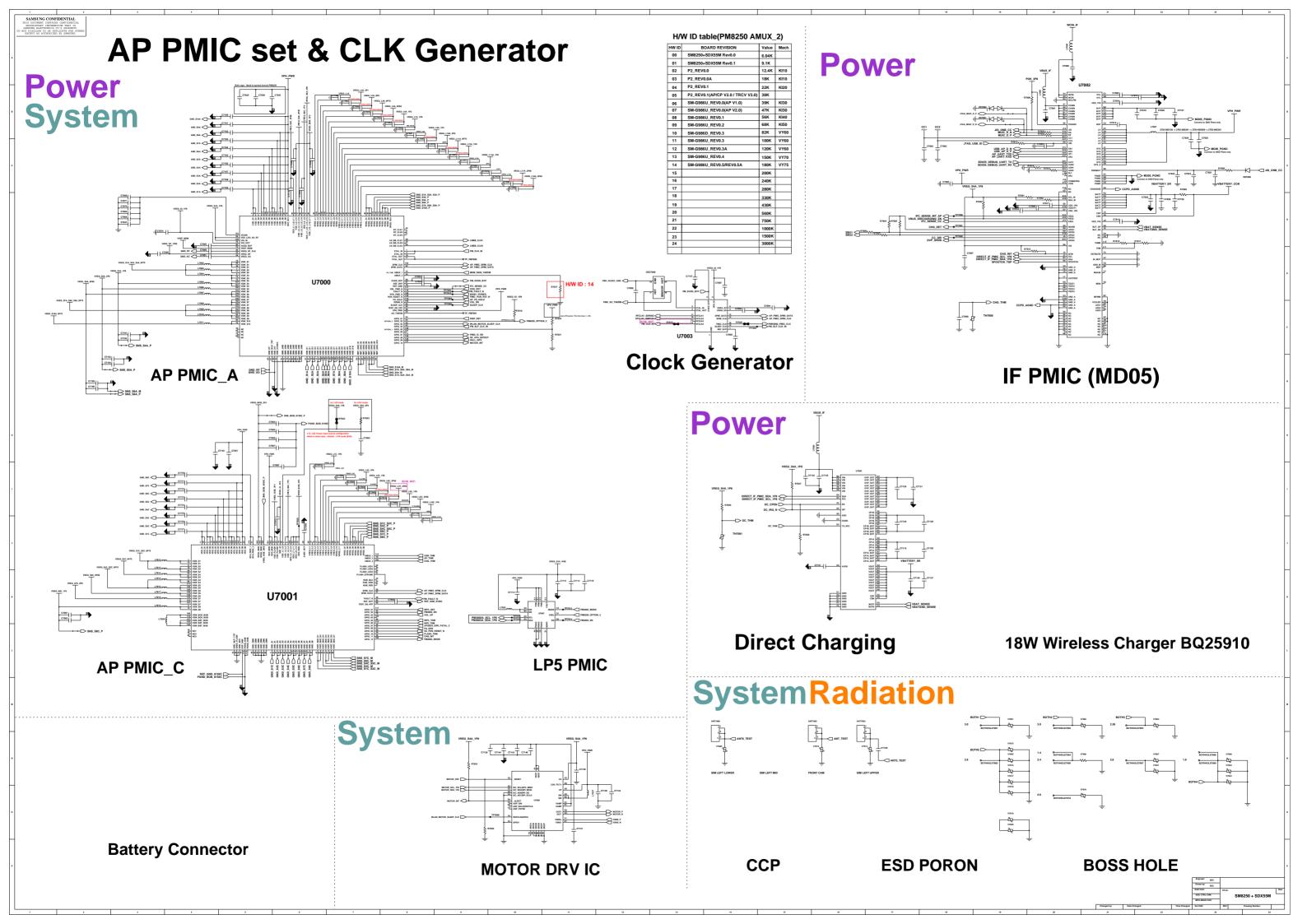


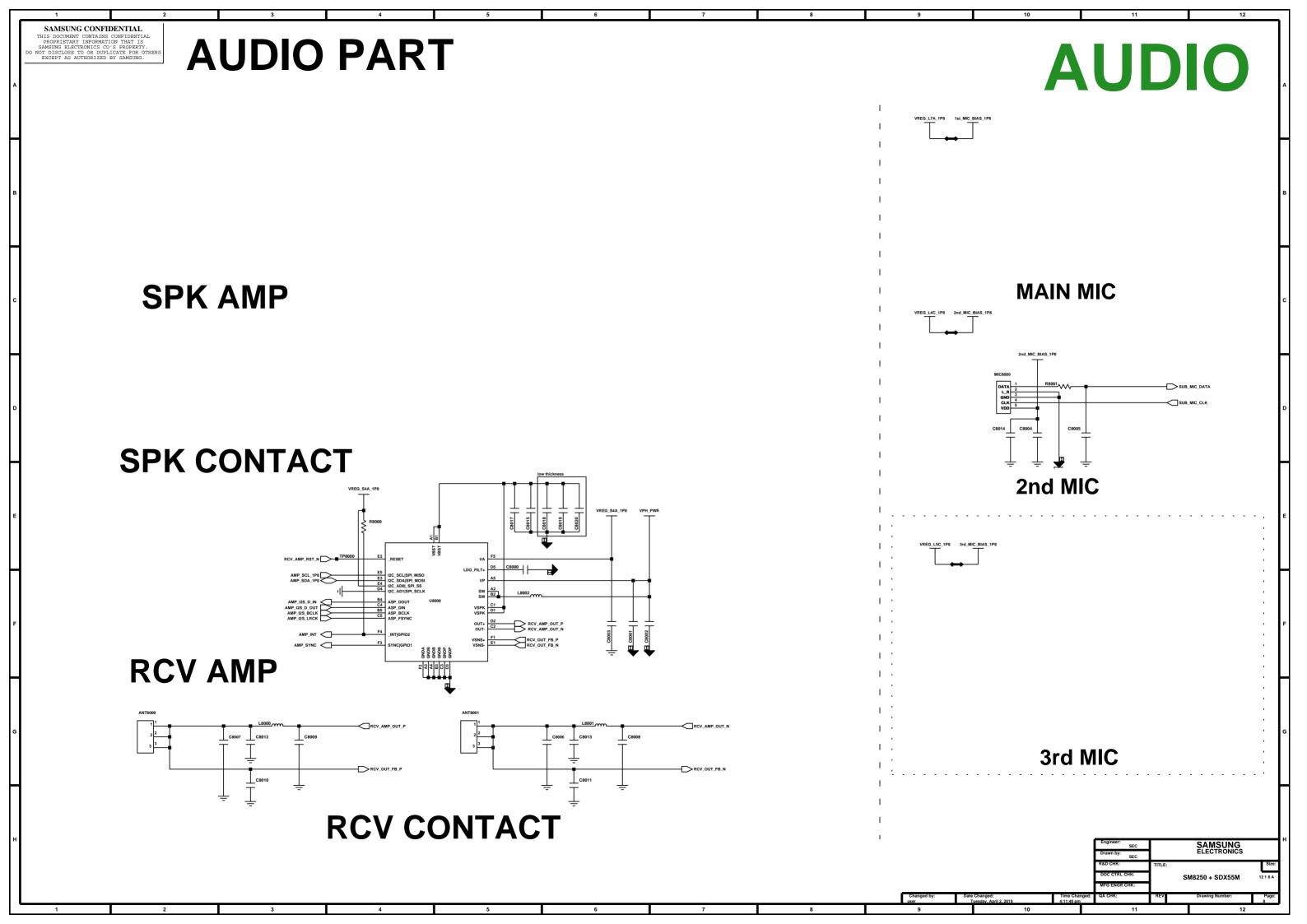


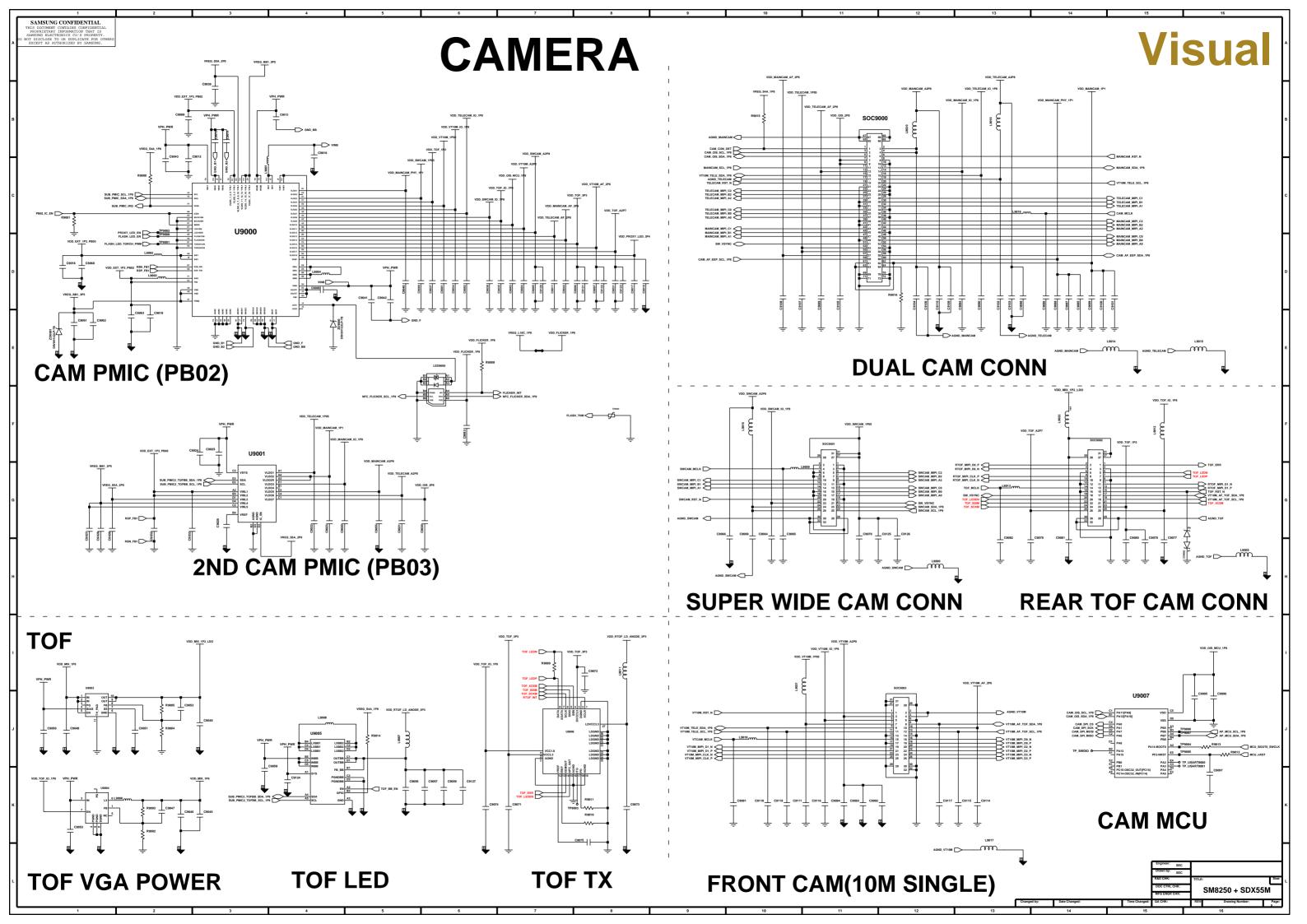








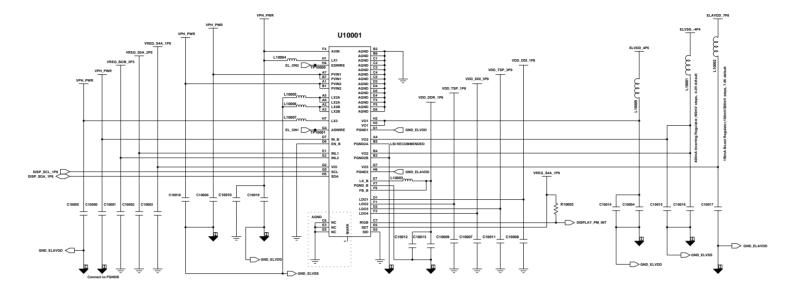




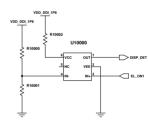
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# Visual

### **DISPLAY**



**DISPLAY PMIC** 



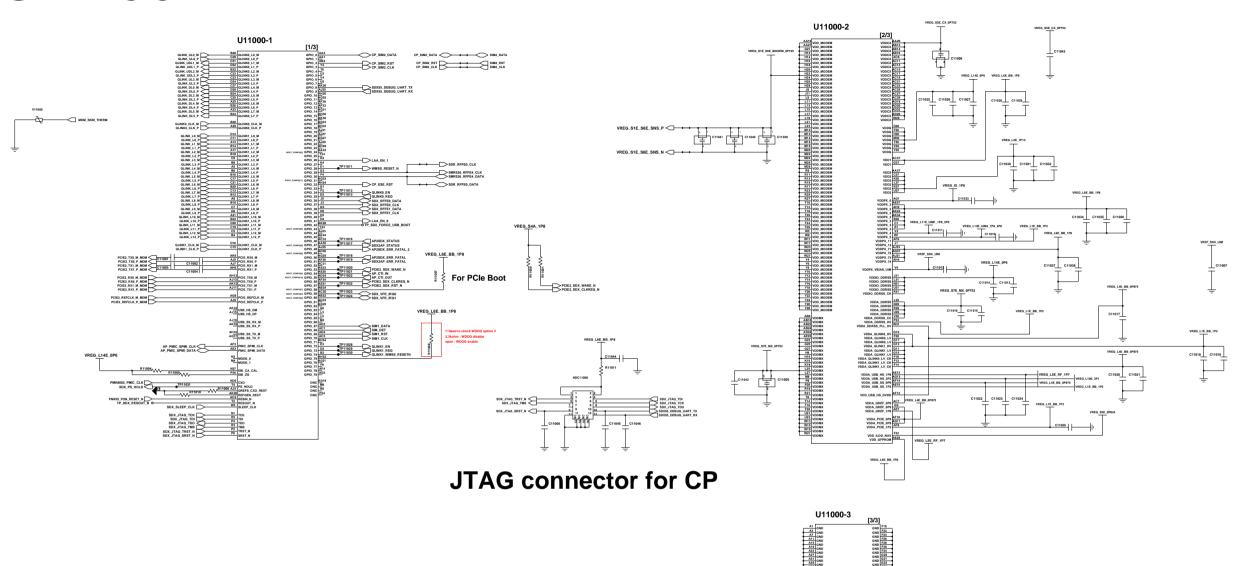
#### **DISPLAY CONNECTOR**

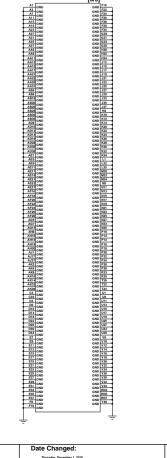
			Engineer: SEC					
			Drawn by: SEC	_				
			R&D CHK:	TIT	LE:		Size:	L
			DOC CTRL CHK:			SM8250 + SDX55	м	
			MFG ENGR CHK:			0.110200 1 007100	•••	
nged by:	Date Changed:	Time Changed:	QA CHK:	RE	V	Drawing Number:	Page: 10	
	44	45				16		- 1

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#### SDX55M

#### **System**





Engineer: Drawn by:	SEC SEC	SAMSUNG ELECTRONICS	
R&D CHK:		TITLE:	Size:
DOC CTRL (	CHK:	SM8250 + SDX	55M
MFG ENGR	CHK:	ONIOZOU + ODA	33111
OV CHK.		DEV: Drawing Number:	Dogg

MFG ENGR CHK:

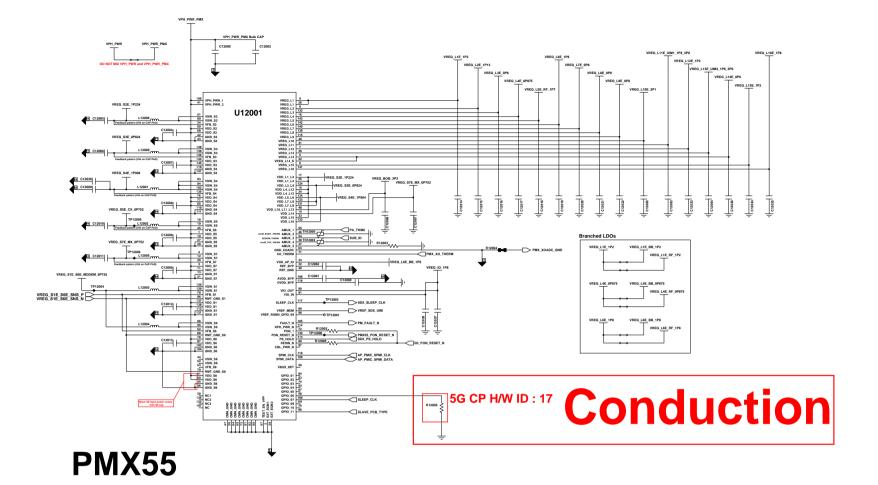
Changed by: Date Changed: Time Changed: QA CHK: REV: Drawing Number: Page:

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**CP PMIC** 

#### **Power**



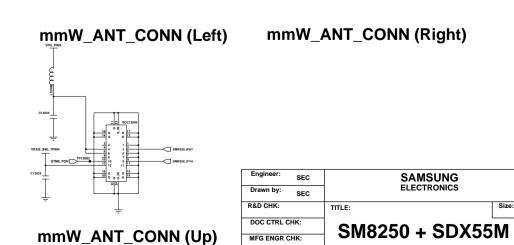
#### CP H/W ID table (PMX55 GPIO\_06)

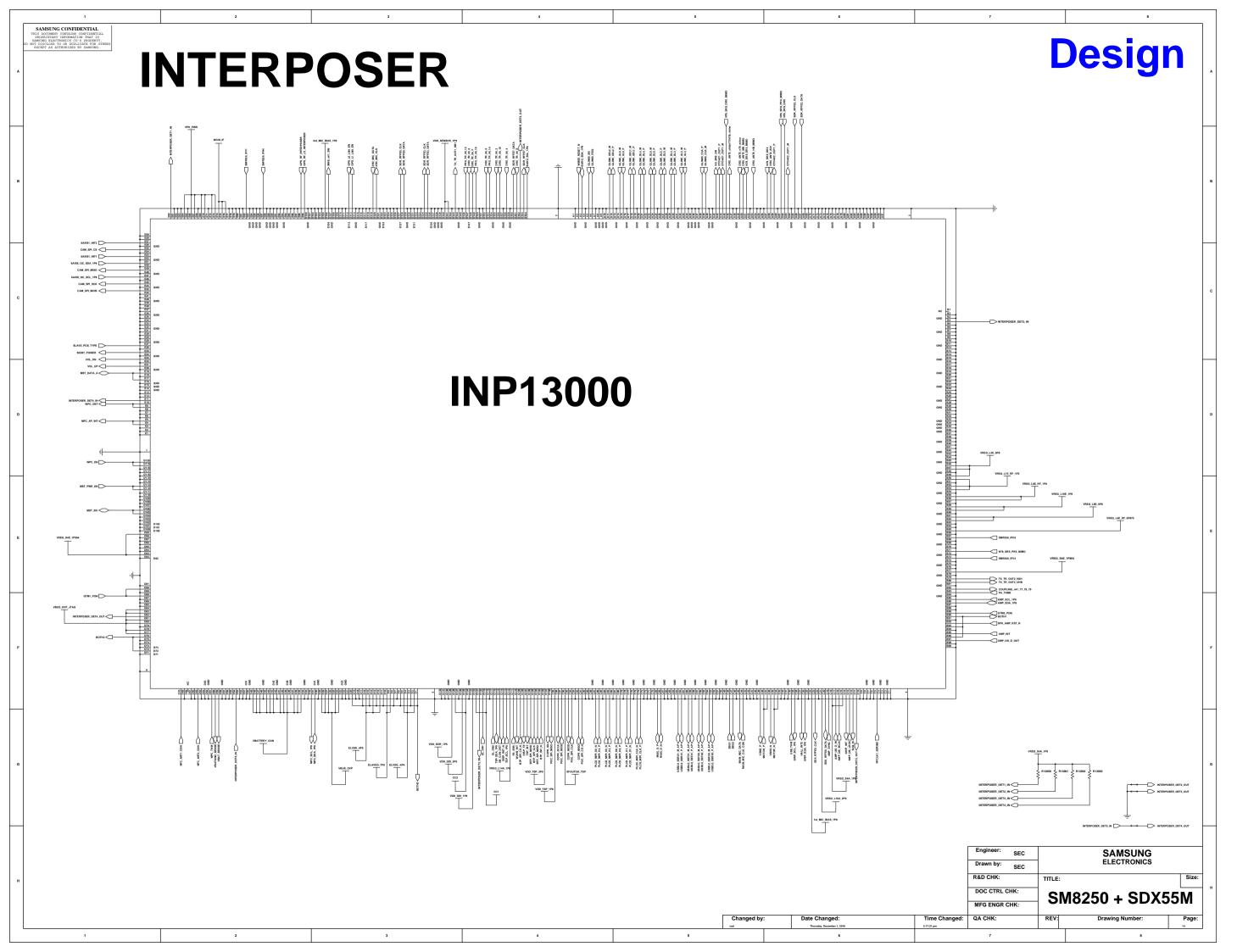
HW ID	BOARD REVISION	Value	Mech
00	SM8250+SDX55M Rev0.0	6.04K	
01		9.1K	
02	P2_REV0.0	12.4K	KI10
03	P2_REV0.0A	18K	KI10
04	P2_REV0.1	22K	KI20
05	P2_REV0.1(AP/CP V2.0 / TRCV V3.0)	30K	
06	SM-G986U_REV0.0(AP V1.0)	39K	KI30
07	SM-G986U_REV0.0(AP V1.0)	47K	KI30
08	SM-G986U_REV0.1	56K	KI40
09	SM-G986U_REV0.1 (QPM6585 NC)	68K	KI40
10	SM-G986U_REV0.1 (QPM6585,8972 NC	) 82K	KI40
11	SM-G986U_REV0.2	100K	KI50
12	SM-G986U_REV0.3	120K	VY60
13	SM-G986U_REV0.3A	150K	VY60
14	SM-G986U_REV0.4	180K	VY70
15	SM-G986U_REV0.4 (QAT5515)	200K	VY70
16	SM-G986U_REV0.5	240K	VY75
17	SM-G986U_REV0.5A	280K	VY75
18		330K	
19		430K	
20		560K	
21		750K	
22		1000K	
23		1500K	
24		3000K	

#### **5G IFIC**

# SMESSE, PFFE, CLK SMESSE, PFFE,

#### **Radiation**





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#### **HUBBLE 2 NA SLAVE REV0.5A**

SM-G986U Common

2019. 11.27

made 1203, SMD 1209

sheet01: RF (1/2), MMW Conn

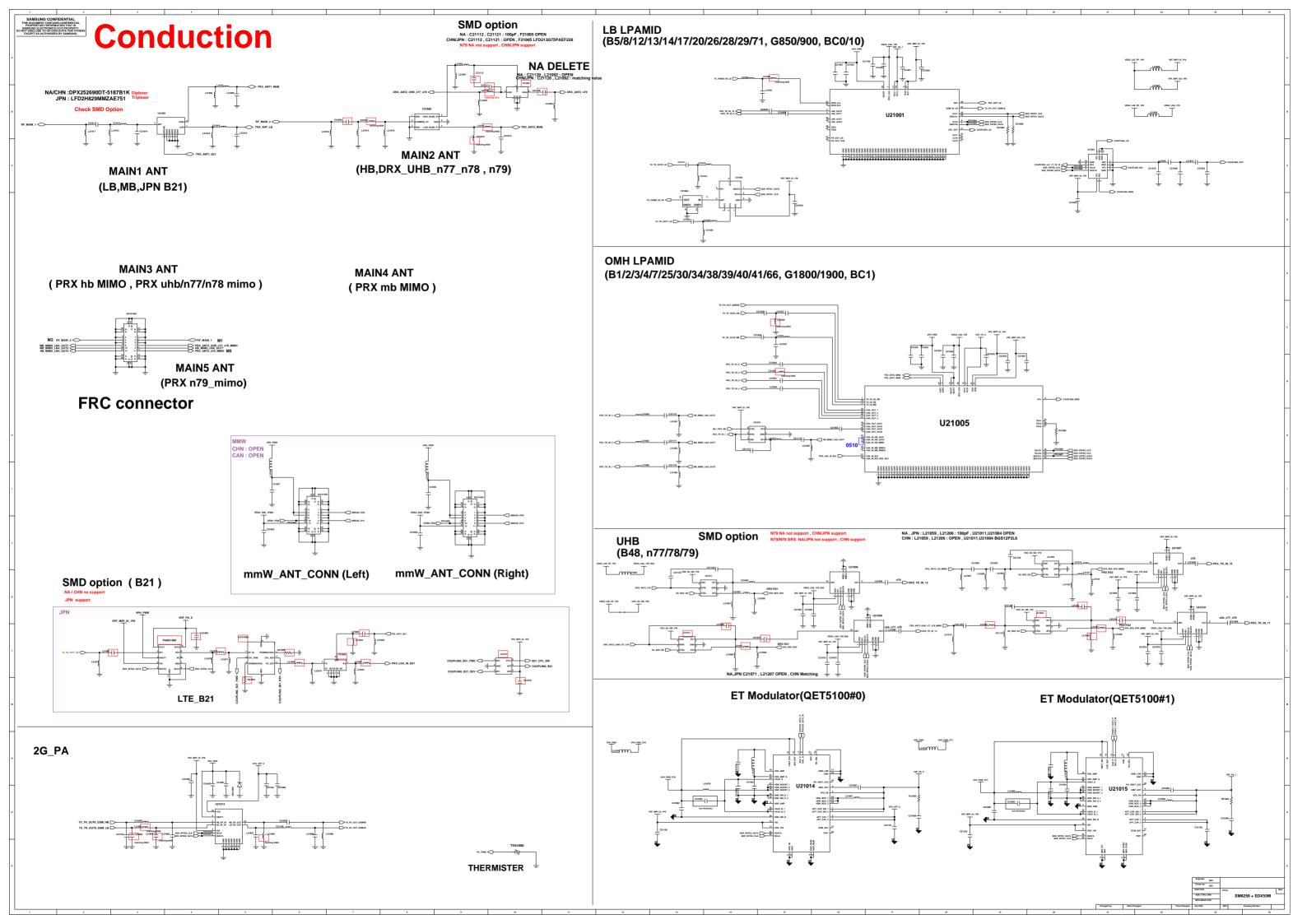
sheet02: RF (2/2), TRCV\_SDR865

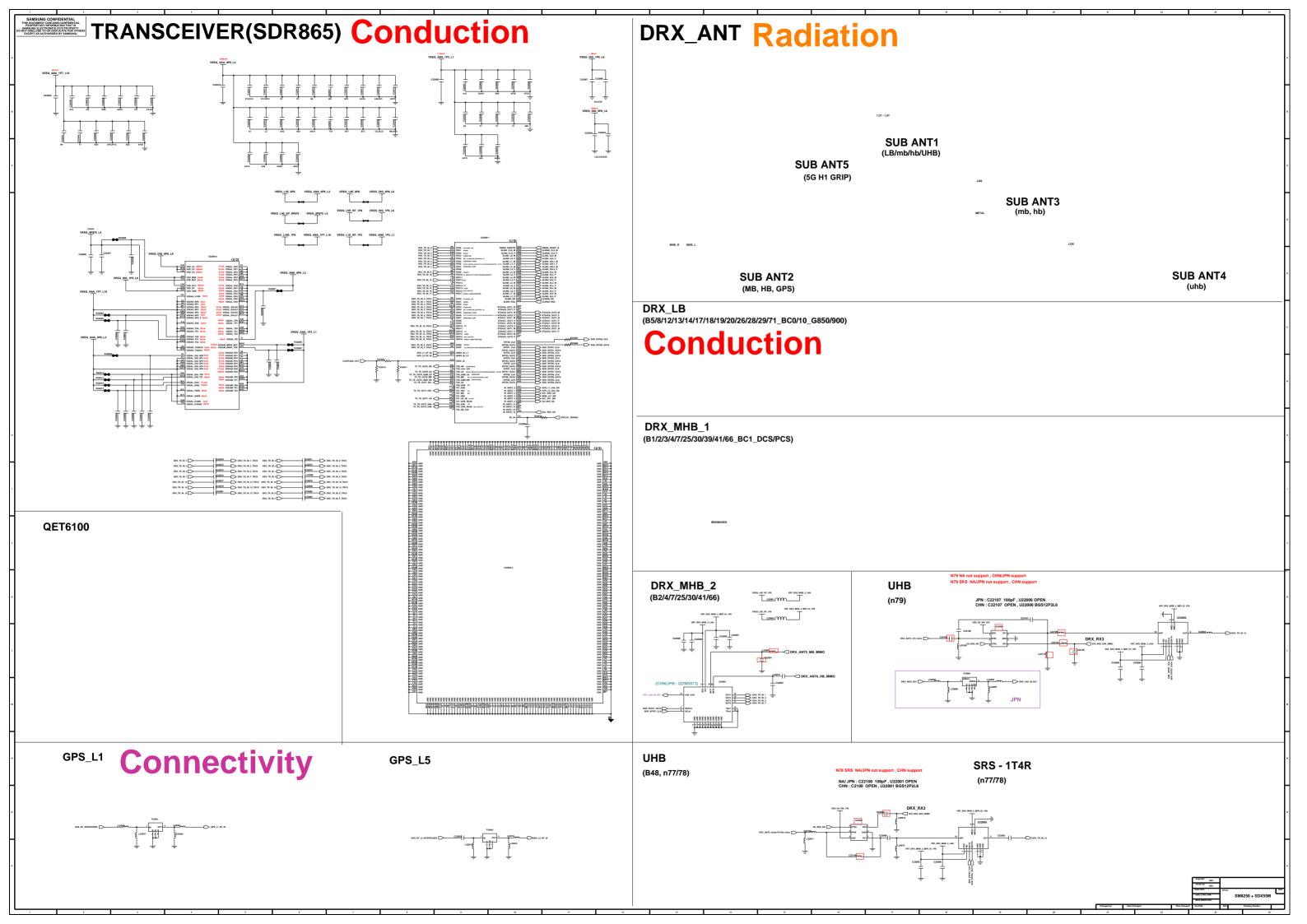
sheet03: BT/WIFI, SIM, SHILDCAN

sheet04: MFC, MFC Conn, 6XIS, BATT Conn, SPK AMP

sheet05: Lower SUB Conn, KEYLESS, DISPLAY Con

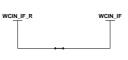
sheet06: INTERPOSER







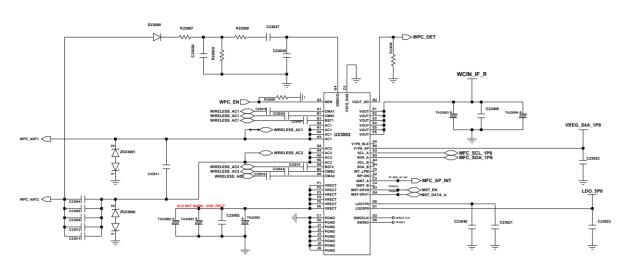
#### **Power**



#### **MST Switch**

# **AUDIO**

#### **MFC**

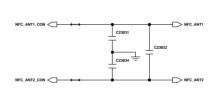


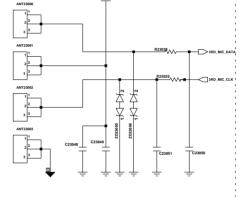
**NFC** 

#### 3rd MIC

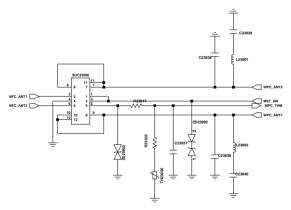
**SPK AMP** 





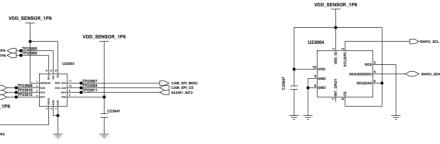


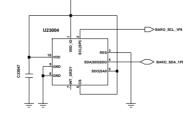
#### W/C CONNECTOR



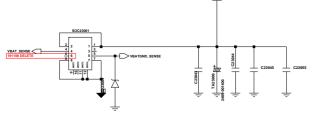
#### **Power**

#### **SENSORS**

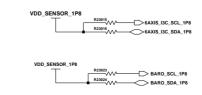




#### **Battery Connector**



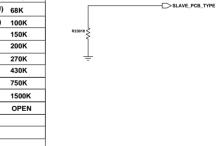
#### 6 Axis SENSOR (GYRO, ACCEL)

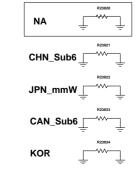


# **System**

#### SLAVE\_TYPE

	ADC
NA_Sub6_mmW(G986U)	68K
NA_CAN_Sub6(G986W)	100K
CHN_SUB6(G9860)	150K
LA_LTE	200K
KOR_Sub6(G956N)	270K
MEA_LTE	430K
JPN_mmW(G986D)	750K
JPN_LTE	1500K
For JIG	OPEN



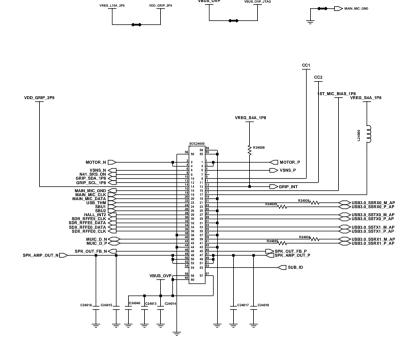


	Engineer: SEC				1
	Drawn by: SEC				1
	R&D CHK:	TITLE:		Size:	ı
	DOC CTRL CHK:		SM8250 + SDX55M	16 1 12 A	ı
	MFG ENGR CHK:				ı
Time Changed: 11:27:01 pm	QA CHK:	REV:	Drawing Number:	Page:	1
15			16		

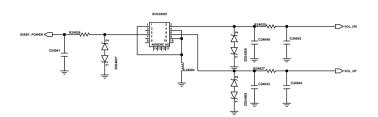
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#### **System**

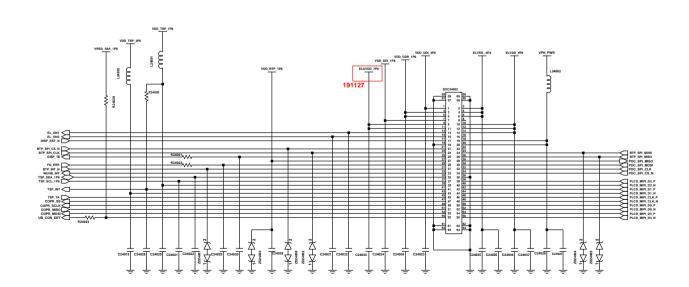
#### **Lower SUB Conn**



# Vol key

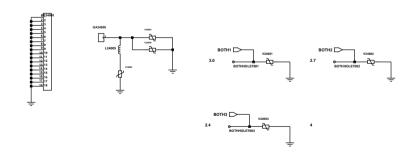


#### **Visual**



**DISPLAY CONNECTOR** 

#### **Design**



SHIELD CAN

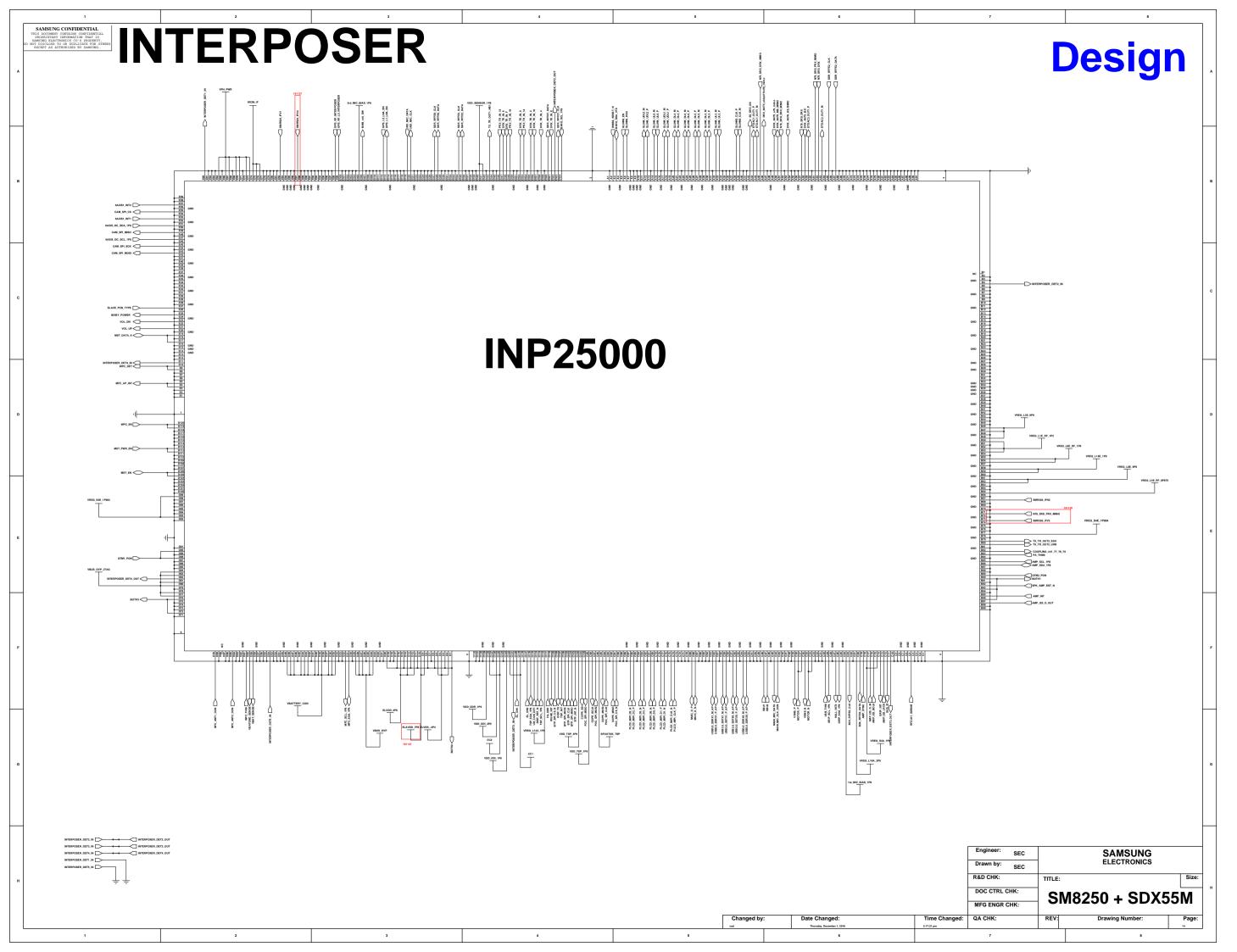
**BOSS HOLE** 

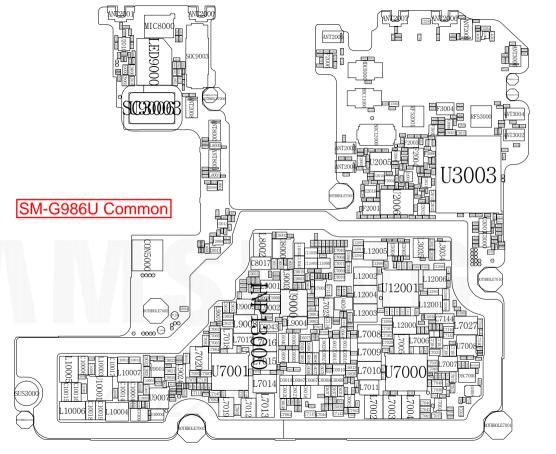


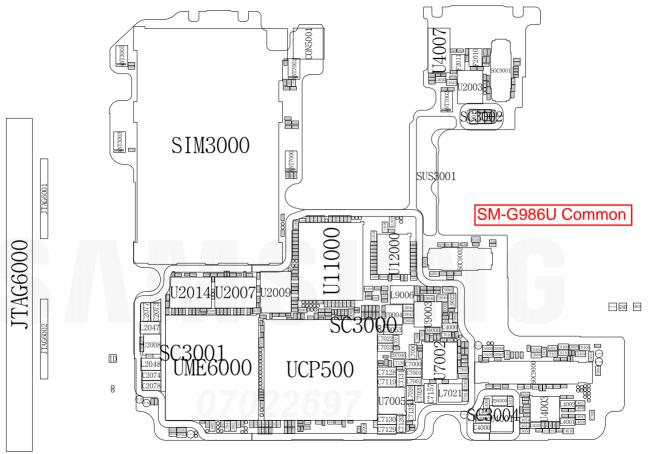
2D BACODE

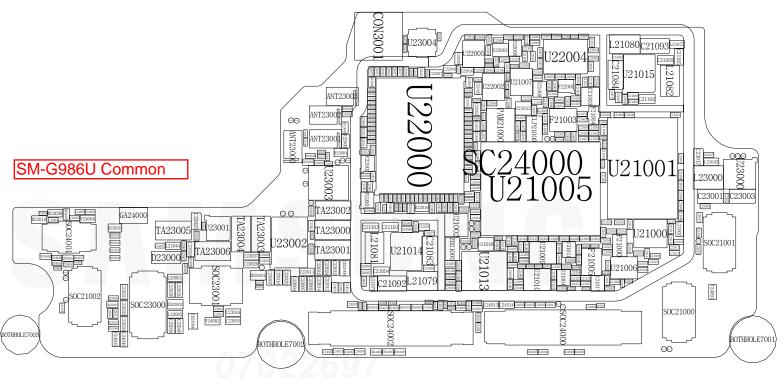
Engineer:	SEC	SAMSUNG			
Drawn by:	SEC	ELECTRONICS			
R&D CHK:		TITLE:	Size:		
DOC CTRL C	CHK:	SM8250 + SDX55M			
MFG ENGR	CHK:	OMOZOO I ODAOO	'''		

Date Changed: Time Changed: QA CHK: REV: Drawing Number:









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#### SM-G986W MASTER REV0.5A

sheet01: RF (1/2)

2019. 11. 28

1216 OPEN -> NC 0213 R12005 Change

sheet02: RF (2/2)

sheet03: BT/WIFI, SIM, SHILDCAN

sheet04: NFC, MFC, OVP LS, SENSORS

sheet05: AP\_SM8250

sheet06: AP\_SM8250 POWER/GND, JTAG, UFS

sheet07: PM8250, IF PMIC(CC IC), D/C

sheet08: AUDIO

sheet09: CAMERA

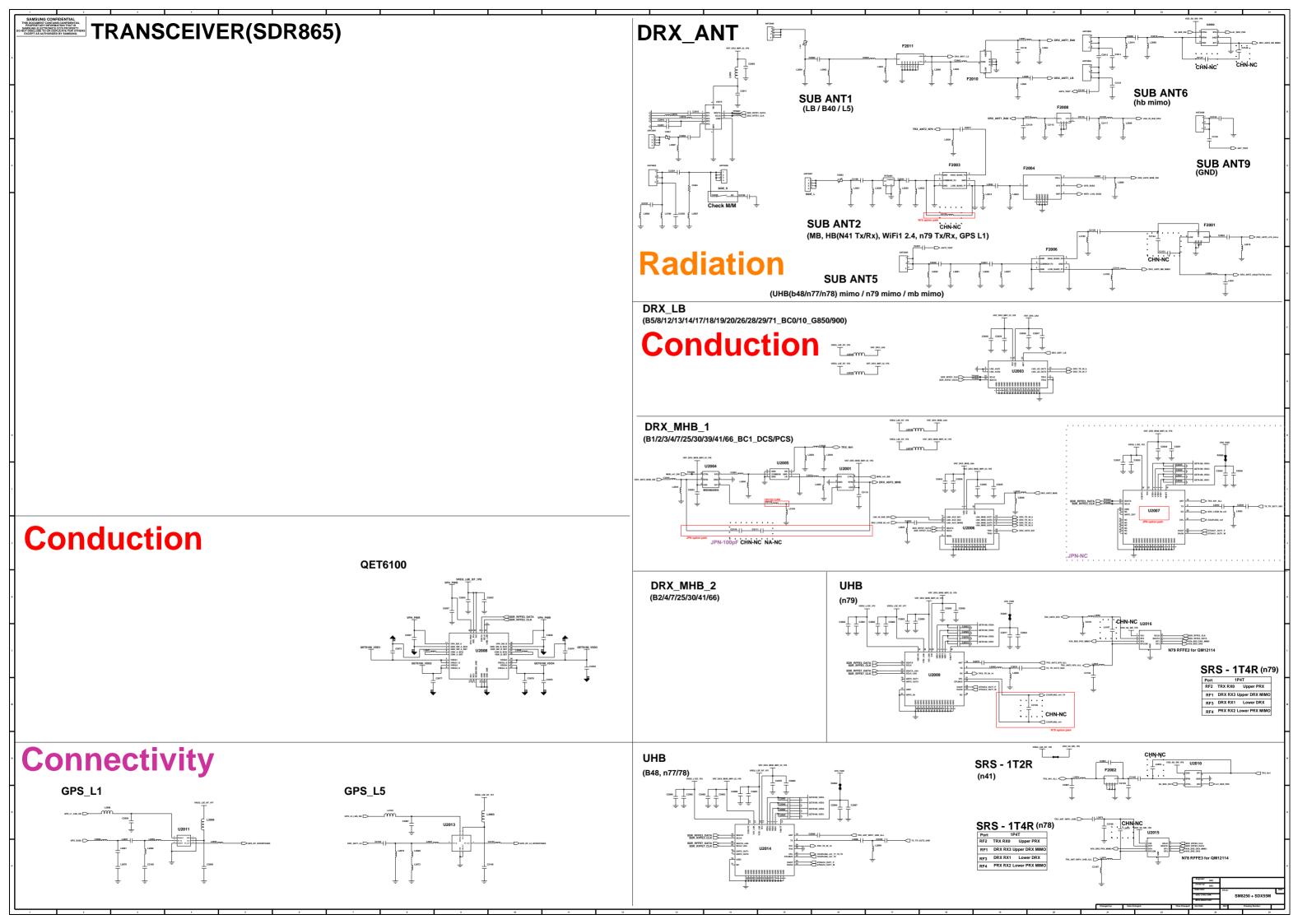
sheet10: DISPLAY

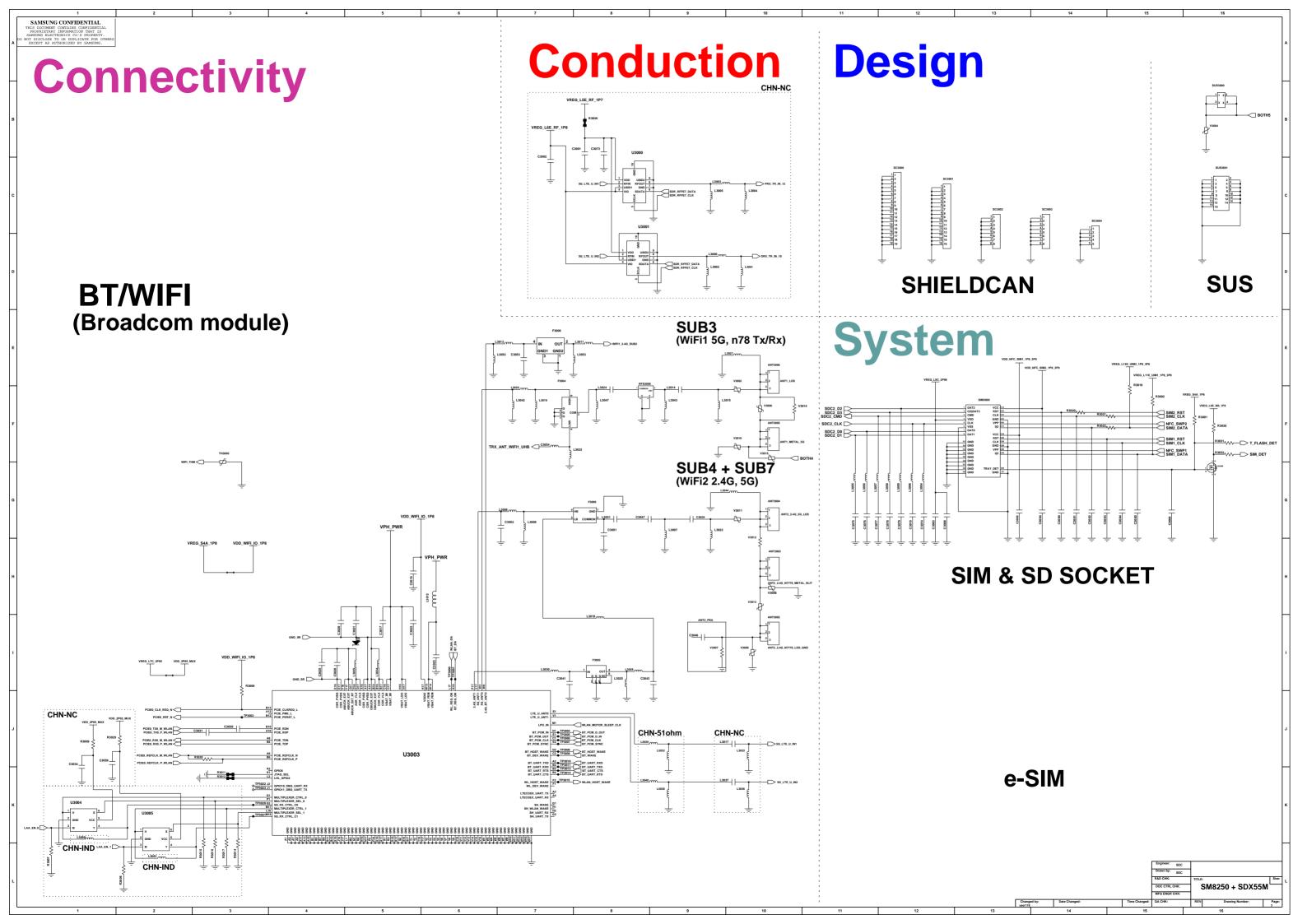
sheet11: CP\_SDX55M

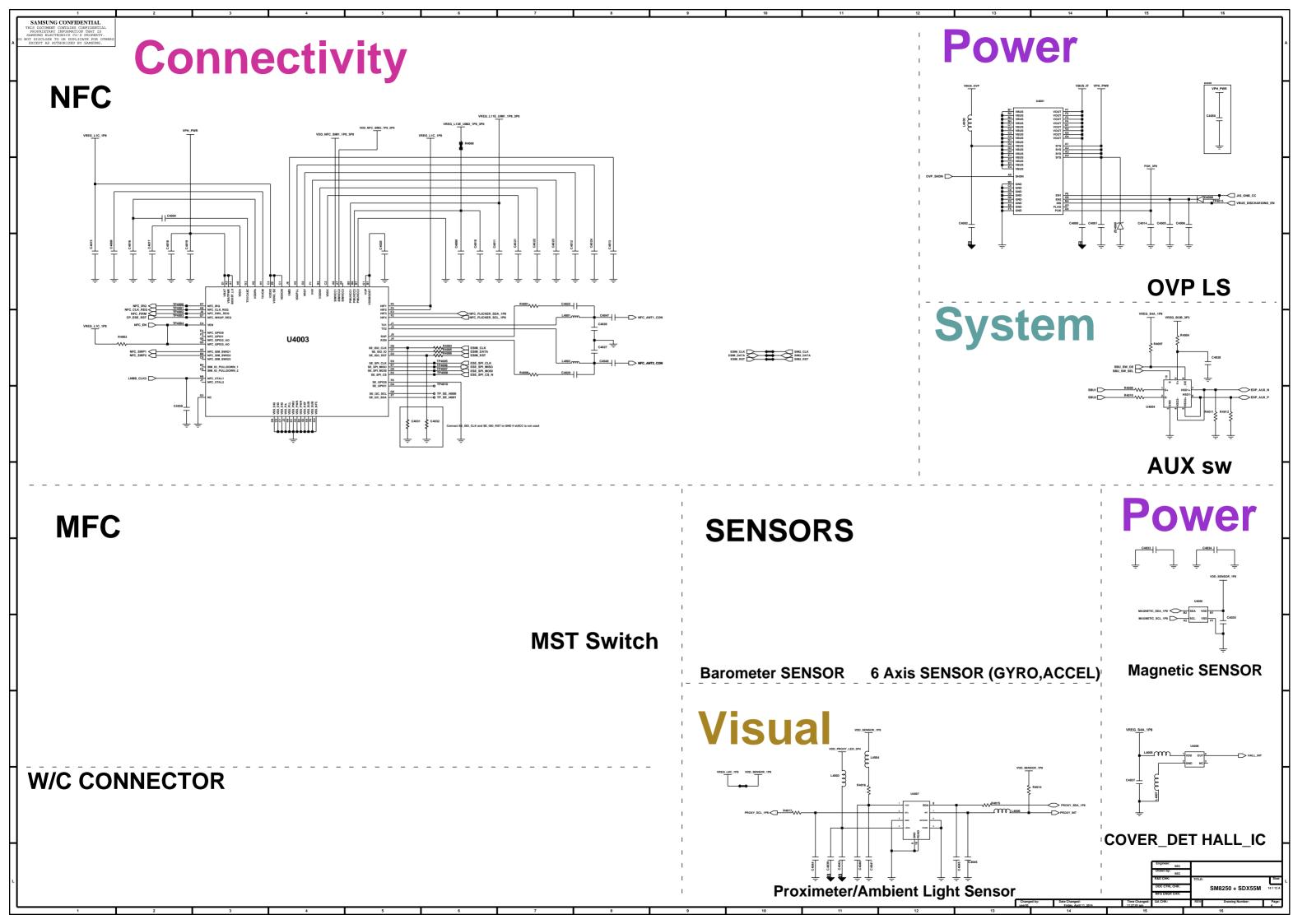
sheet12: CP PMIC, 5G IFIC, 5G Conn

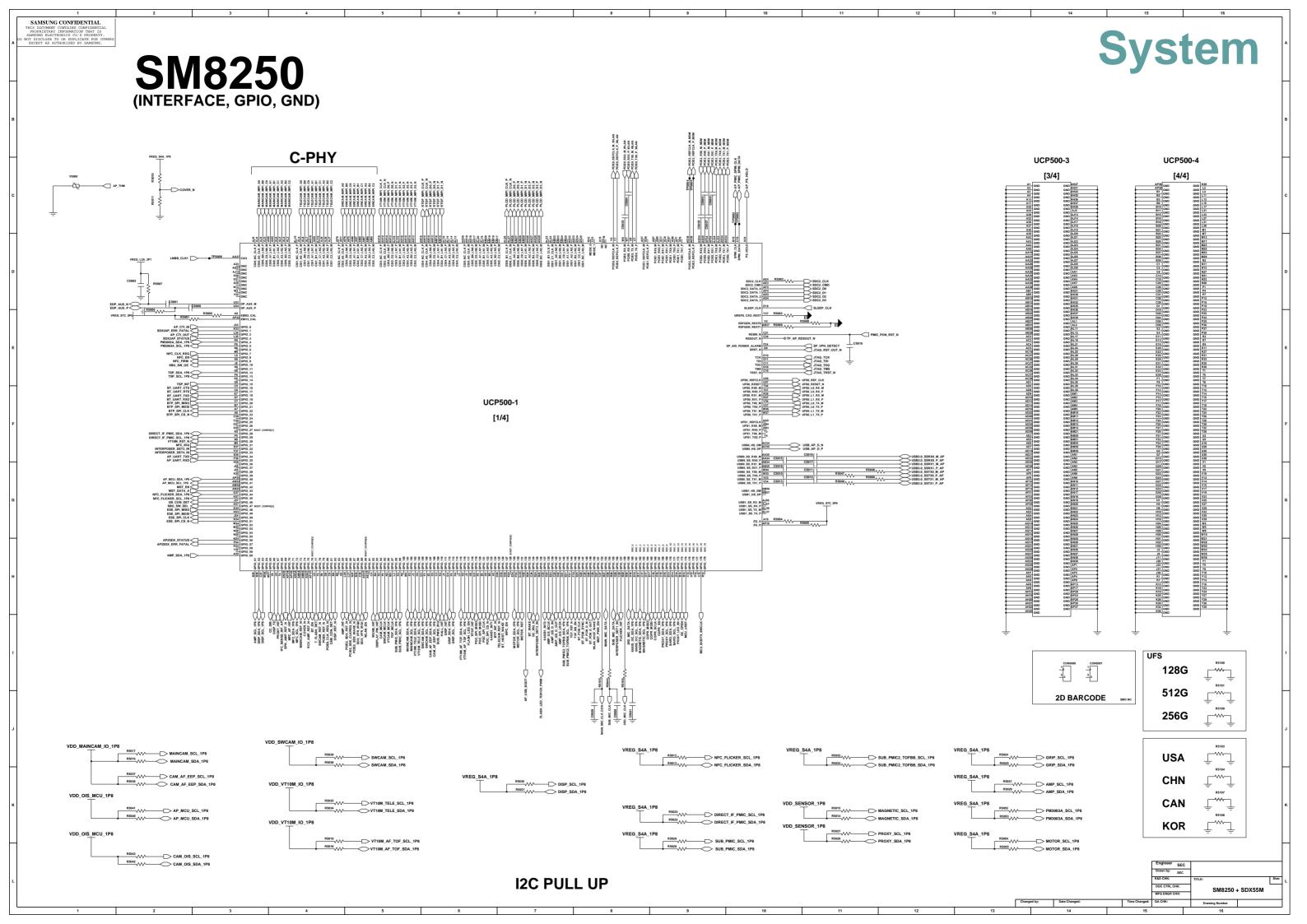
sheet13: INTERPOSER

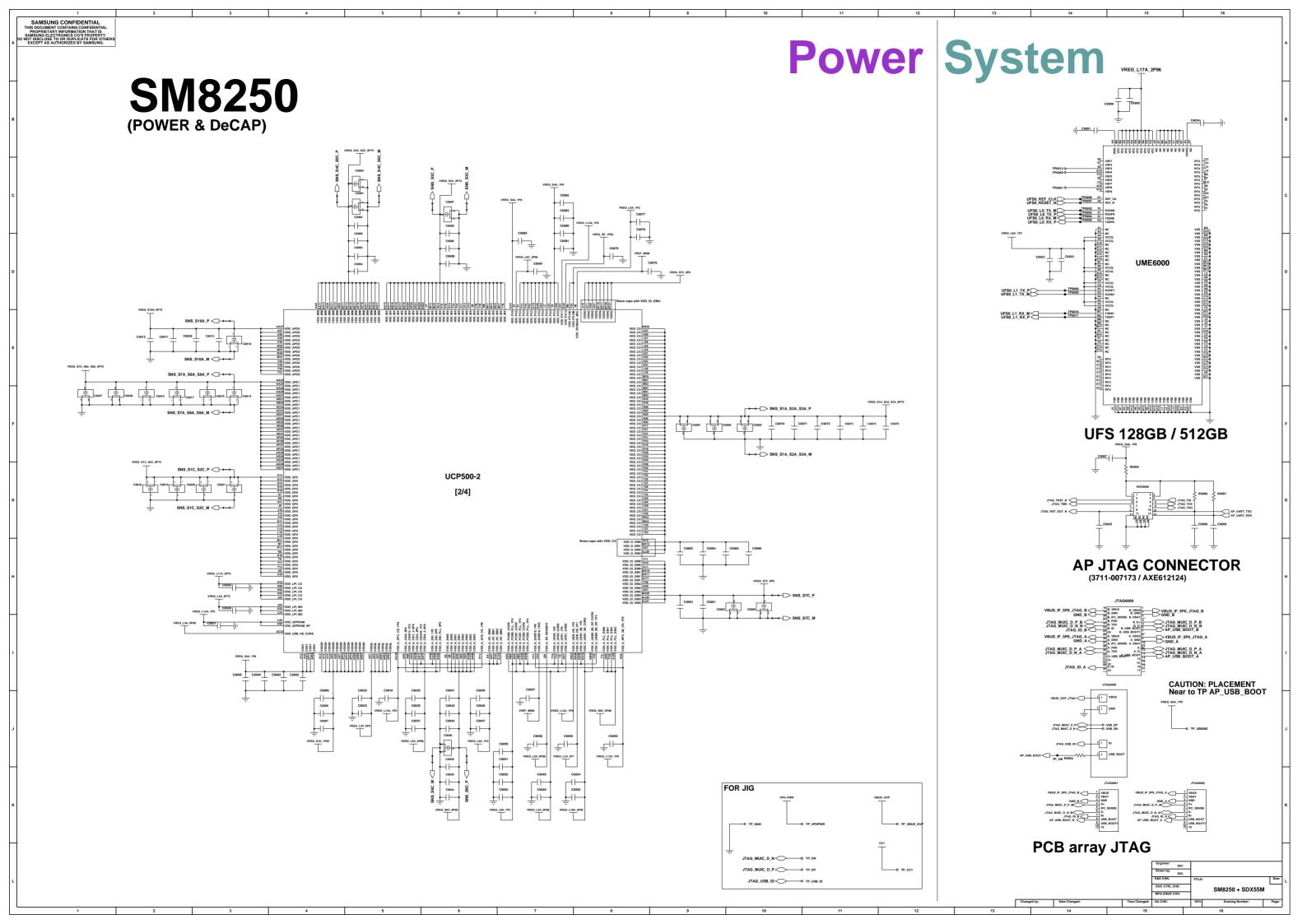
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MAIN ANT	, , ,	
MAIN1-1 ANT		
MAIN1-2 ANT		
	OMH LPAMID (B1/2/3/4/7/25/30/34/38/39/40/41/66, G1800/1900, BC1)	
MAIN4 ANT		
MAIN2 ANT		
M1-1 M1-2 M2 M2 M3		
MAIN3 ANT	UHB	
FRC connector	UHB (B48, n77/78/79)	
JPN		
LTE_B21	ET Modulator(QET5100#0)	ET Modulator(QET5100#1)
2G_PA		
	Non-Williams	The Millians
THERMISTER		Equipme MS

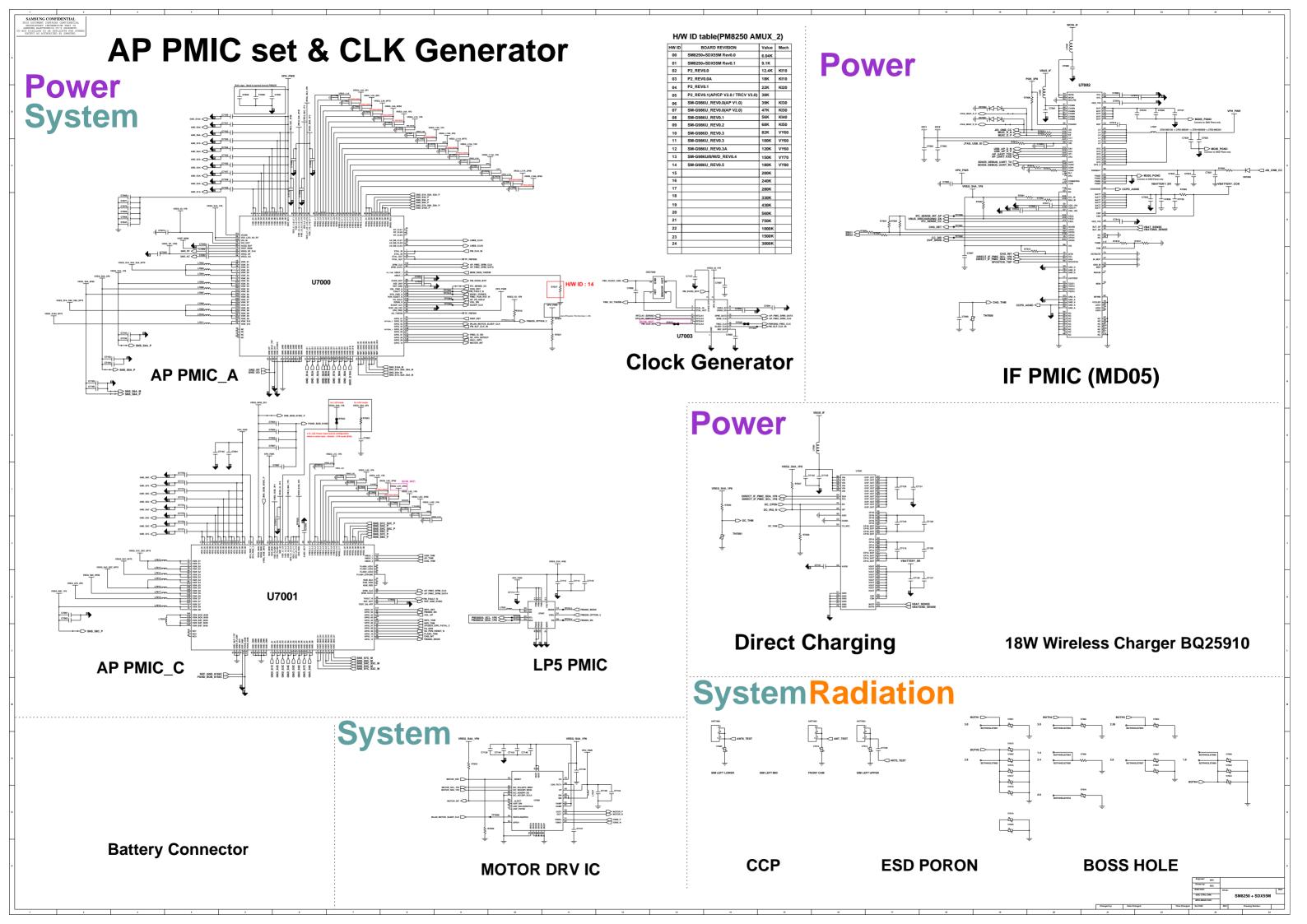


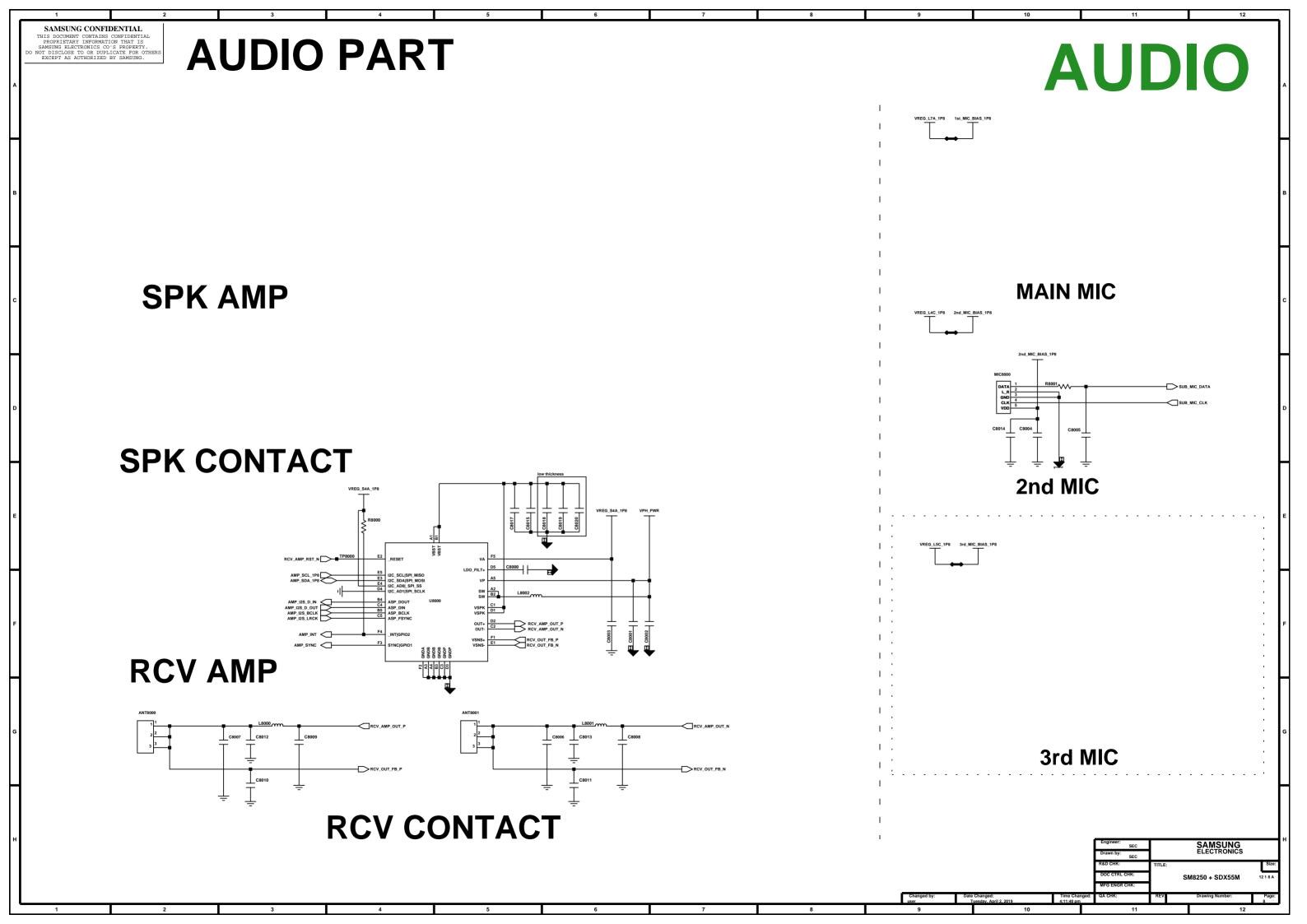


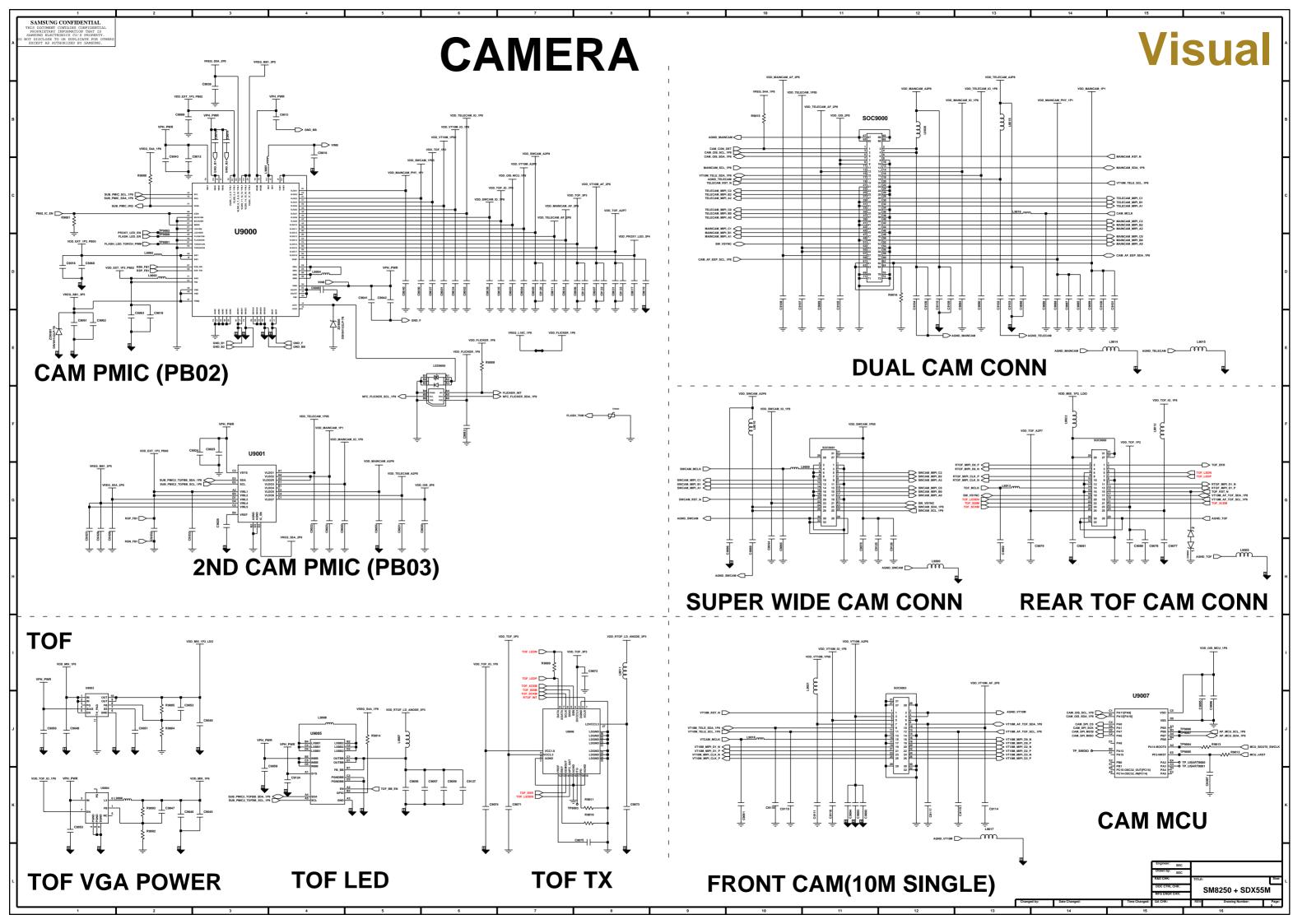








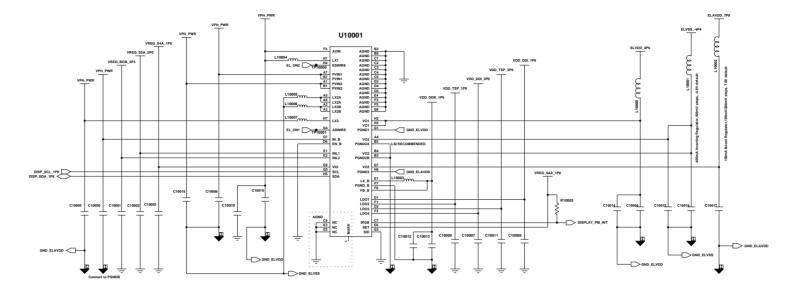




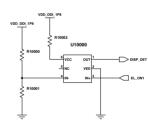
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# Visual

# **DISPLAY**



**DISPLAY PMIC** 



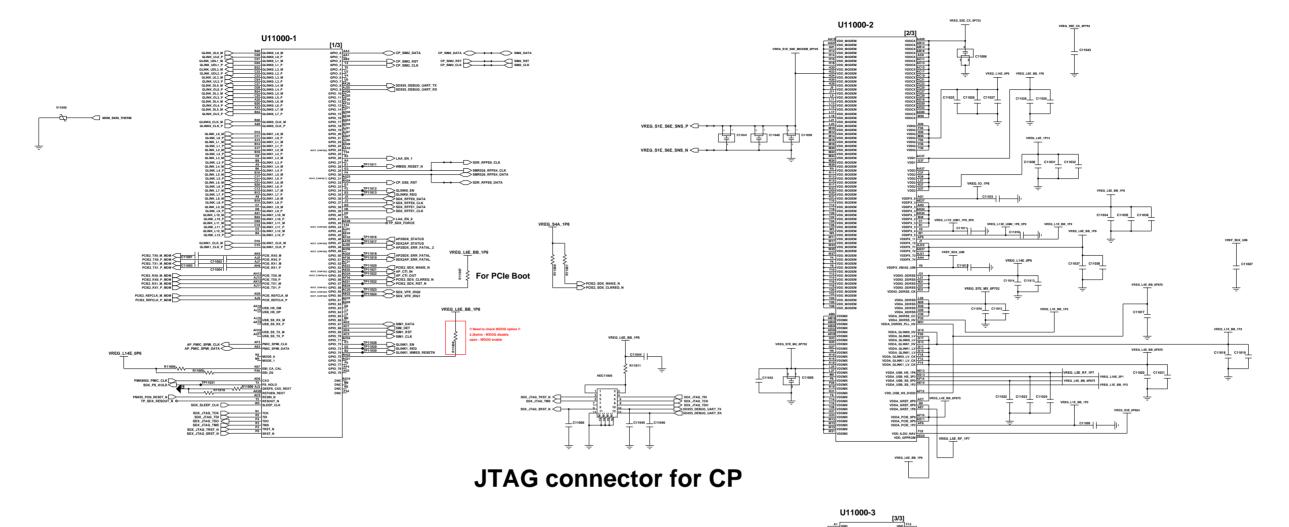
#### **DISPLAY CONNECTOR**

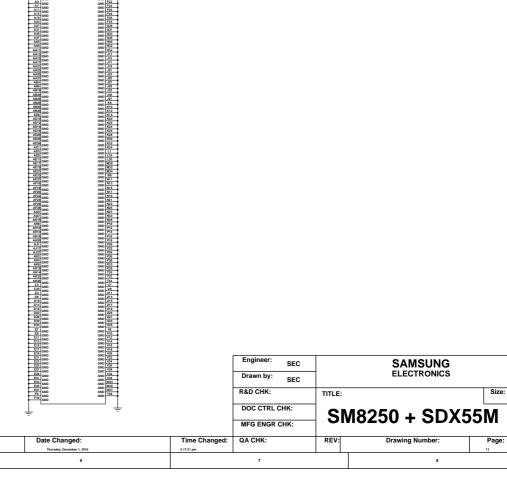
				Drawn by: SEC R&D CHK:	TITL	E:	Size:	L
				DOC CTRL CHK: MFG ENGR CHK:		SM8250 + SDX55	м	1
r:	Date Changed:		Time Changed:	QA CHK:	REV	Drawing Number:	Page:	1
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#### SDX55M

#### **System**

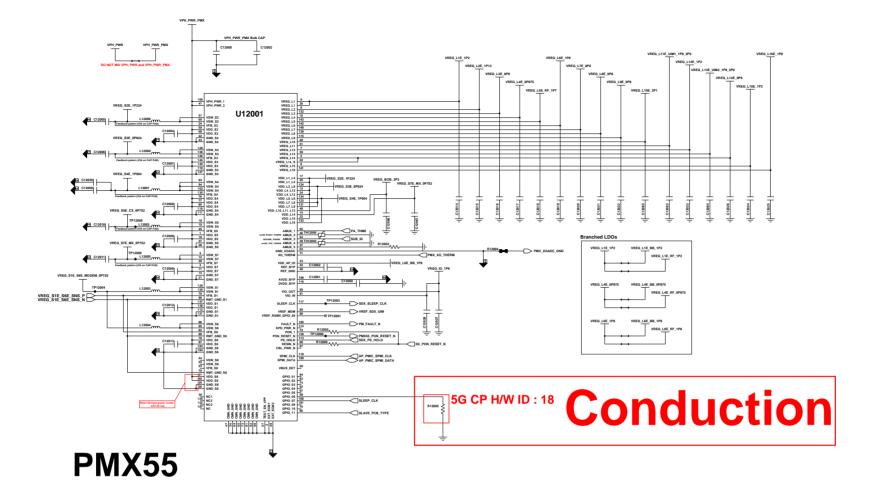




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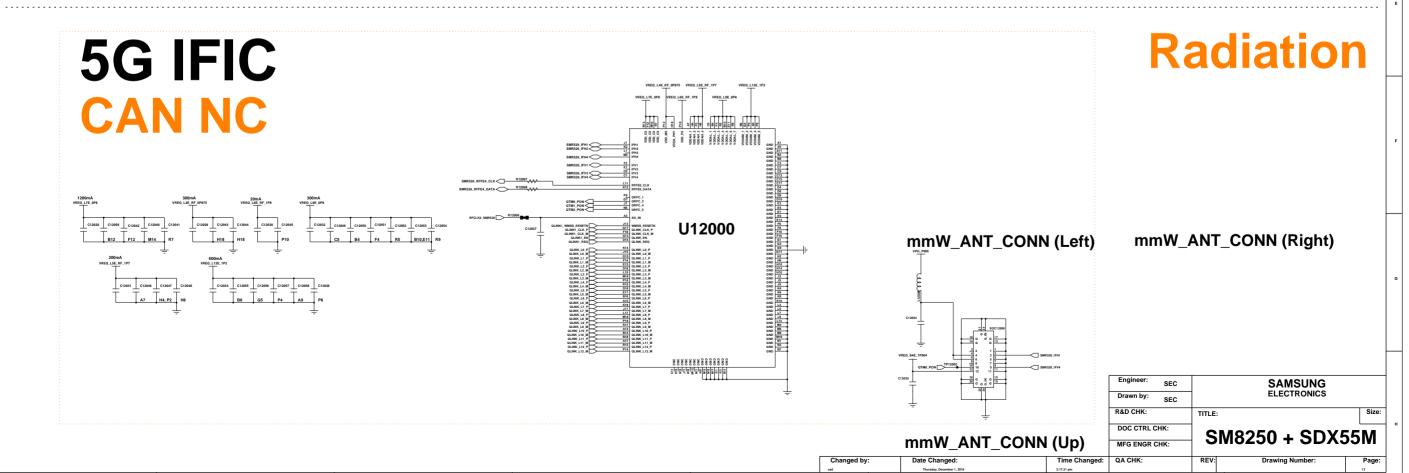
**CP PMIC** 

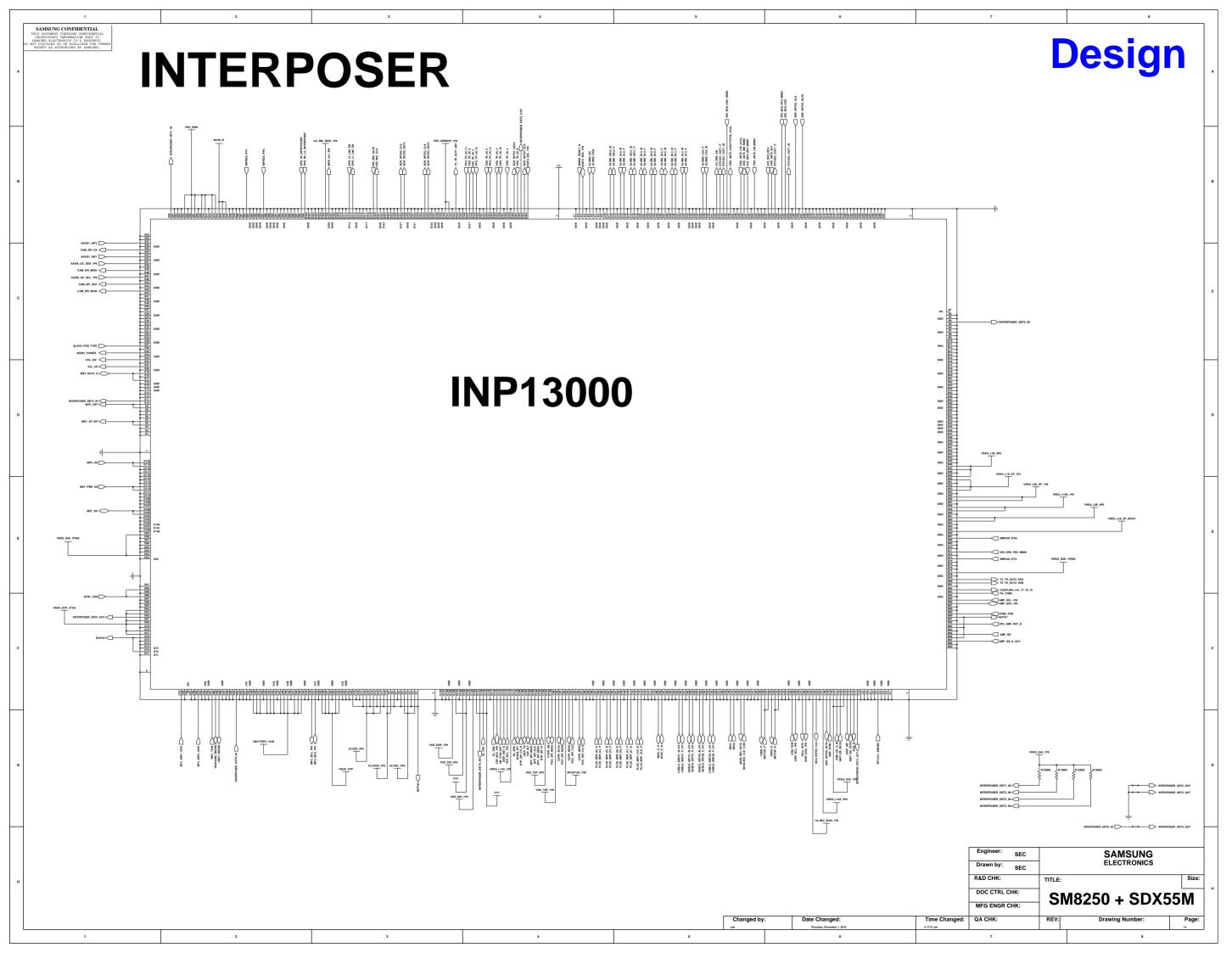
#### **Power**



#### CP H/W ID table (PMX55 GPIO\_06)

HW ID	BOARD REVISION	Value	Mech
00	SM8250+SDX55M Rev0.0	6.04K	
01		9.1K	
02	P2_REV0.0	12.4K	KI10
03	P2_REV0.0A	18K	KI10
04	P2_REV0.1	22K	KI20
05	P2_REV0.1(AP/CP V2.0 / TRCV V3.0)	30K	
06	SM-G986U_REV0.0(AP V1.0)	39K	KI30
07	SM-G986U_REV0.0(AP V1.0)	47K	KI30
08	SM-G986U_REV0.1	56K	KI40
09	SM-G986U_REV0.1 (QPM6585 NC)	68K	KI40
10	SM-G986U_REV0.1 (QPM6585,8972 NC	82K	KI40
11	SM-G986U_REV0.2	100K	KI50
12	SM-G986U_REV0.3	120K	VY60
13	SM-G986U_REV0.3A	150K	VY60
14	SM-G986U_REV0.4	180K	VY70
15	SM-G986U_REV0.4 (QAT5515)	200K	VY70
16	SM-G986U_REV0.5	240K	VY75
17	SM-G986U_REV0.5A	280K	VY75
18	SM-G986U_REV0.5A	330K	VY75
19		430K	
20		560K	
21		750K	
22		1000K	
23		1500K	
24		3000K	





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#### **HUBBLE 2 CAN SLAVE REV0.5A**

2019. 12.16

METAL Ver(200107) 0210 change R21004, R21005

sheet01: RF (1/2), MMW Conn

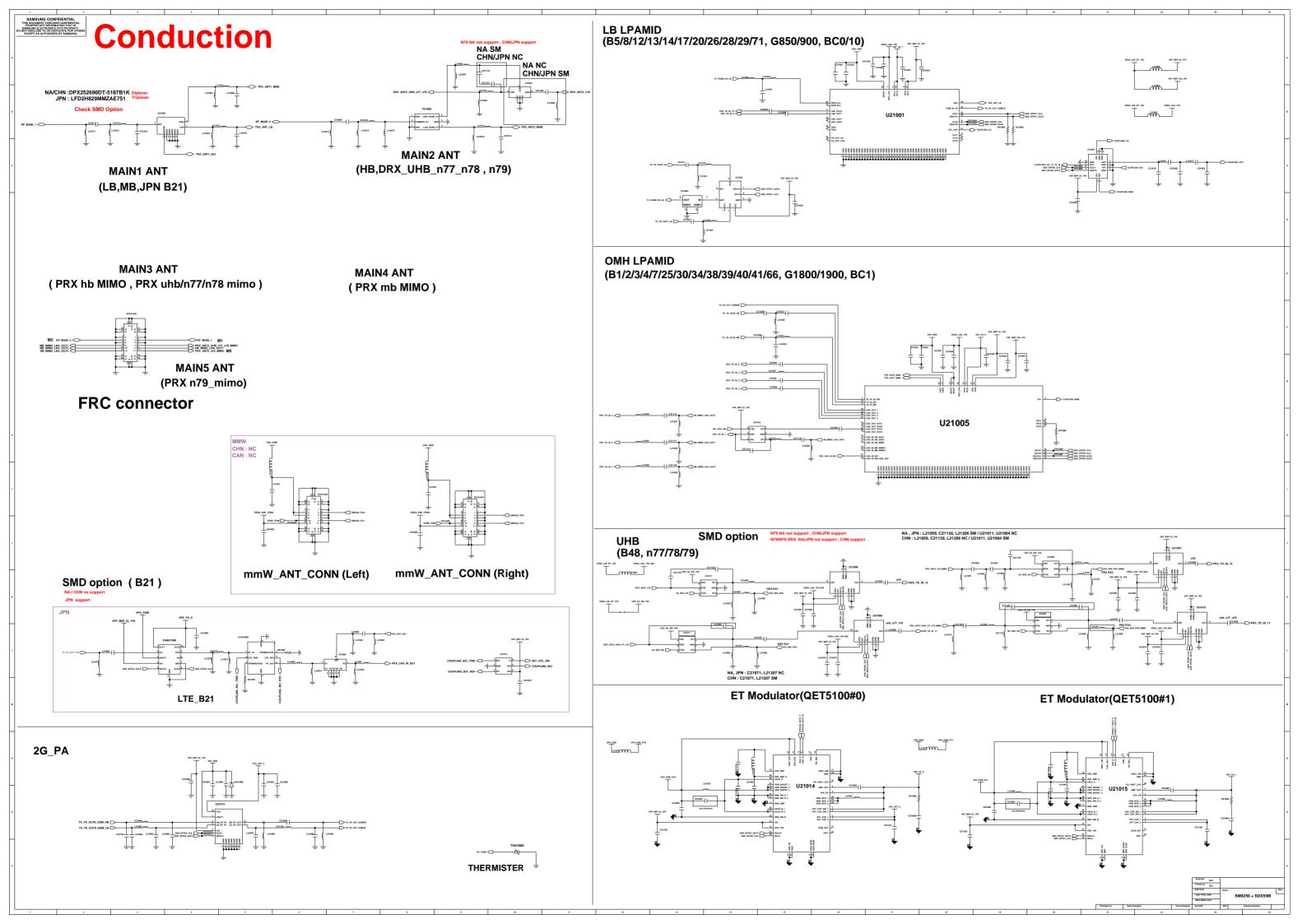
sheet02: RF (2/2), TRCV\_SDR865

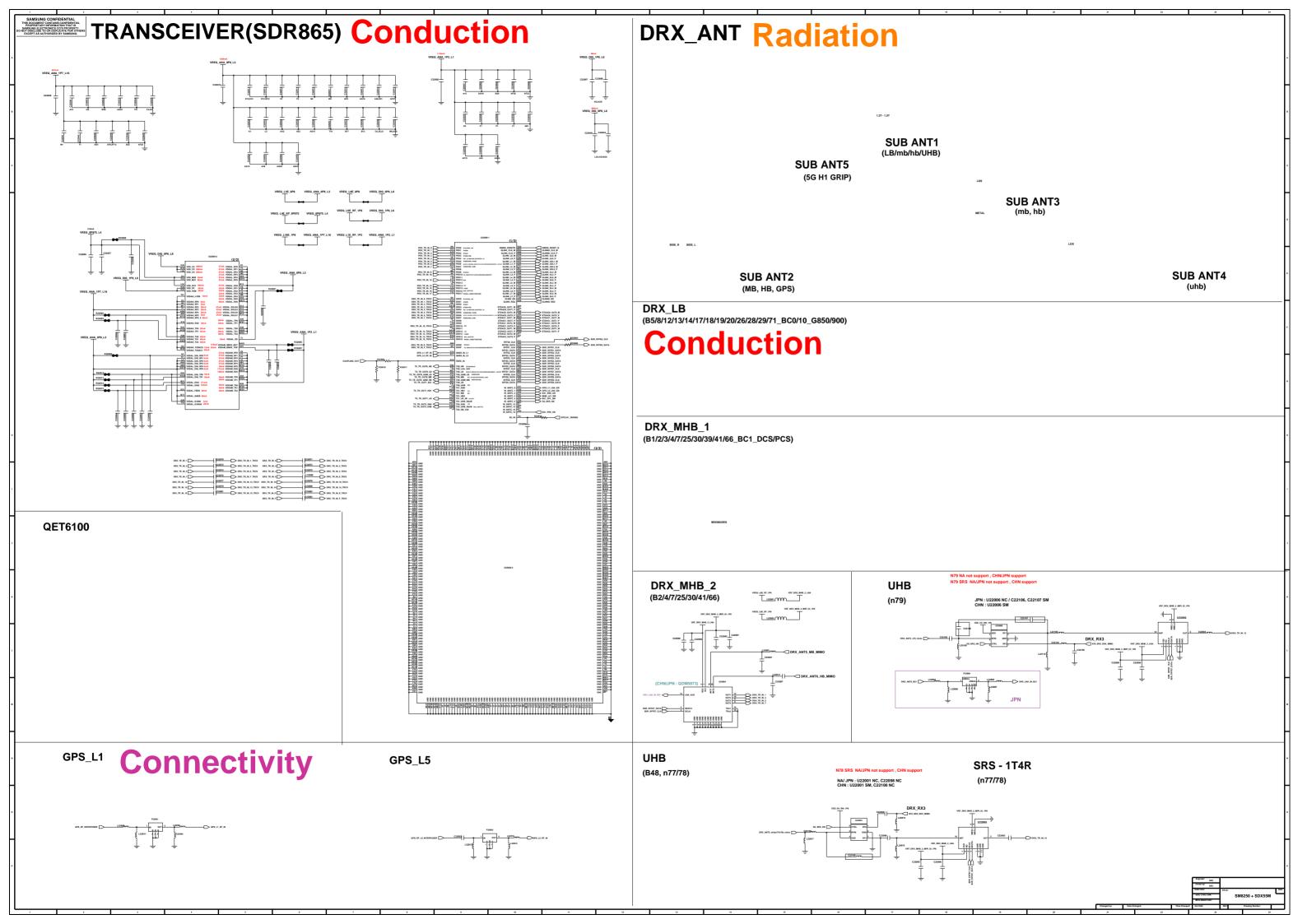
sheet03: BT/WIFI, SIM, SHILDCAN

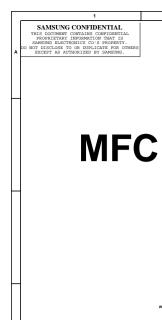
sheet04: MFC, MFC Conn, 6XIS, BATT Conn, SPK AMP

sheet05: Lower SUB Conn, KEYLESS, DISPLAY Con

sheet06: INTERPOSER



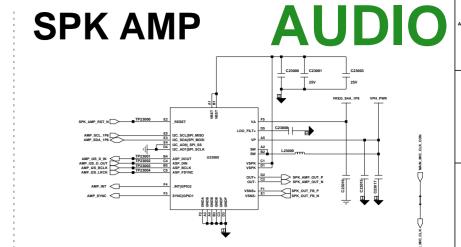


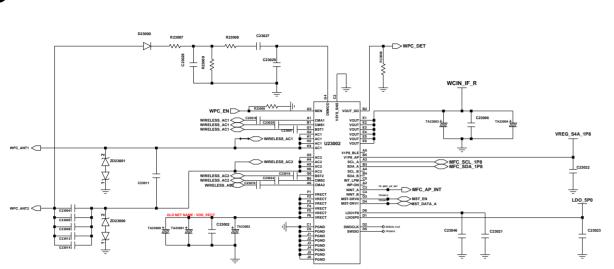


#### **Power**



#### **MST Switch**



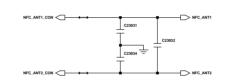


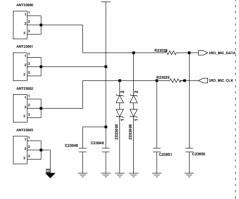
**NFC** 

#### 3rd MIC

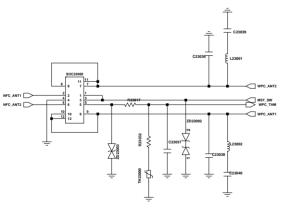






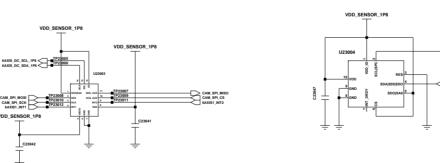


#### W/C CONNECTOR

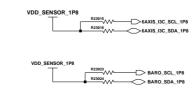


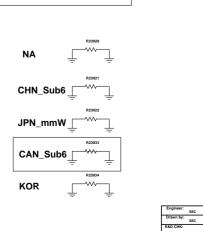
#### **Power**

#### **SENSORS**





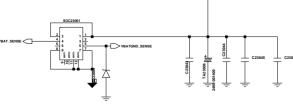




**System** 

┙						
		Engineer: SEC				
		Drawn by: SEC				
		R&D CHK:	TITLE	:		Size:
		DOC CTRL CHK:			SM8250 + SDX55M	16 1 12 A
		MFG ENGR CHK:	Ш.	_		
	Time Changed: 11:27:01 pm	QA CHK:	REV:		Drawing Number:	Page: 4
	15				16	

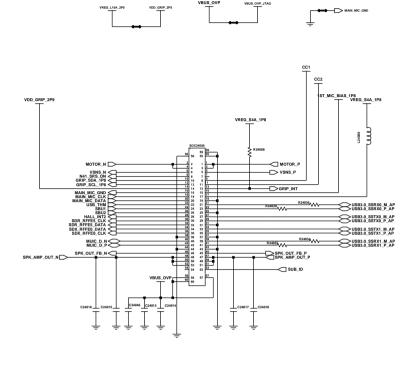
<b>Battery Cor</b>	nnector
	SOC23001



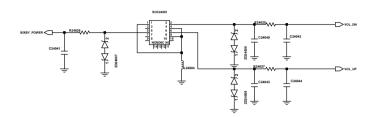
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#### **System**

#### **Lower SUB Conn**

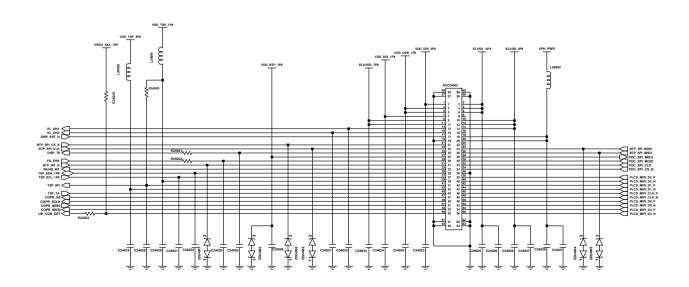


# Vol key



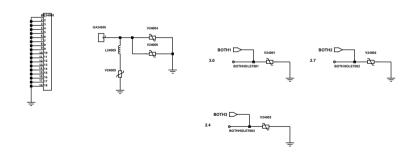
#### **Visual**





#### **DISPLAY CONNECTOR**

#### **Design**



SHIELD CAN

**BOSS HOLE** 



2D BACODE

Engineer:	SEC	SAMSUNG	
Drawn by:	SEC	ELECTRONICS	
R&D CHK:		TITLE:	Size:
DOC CTRL CHK:		SM8250 + SDX55M	
MFG ENGR CHK:			

by: Date Changed: Time Changed: QA CHK: REV: Drawing Number:

