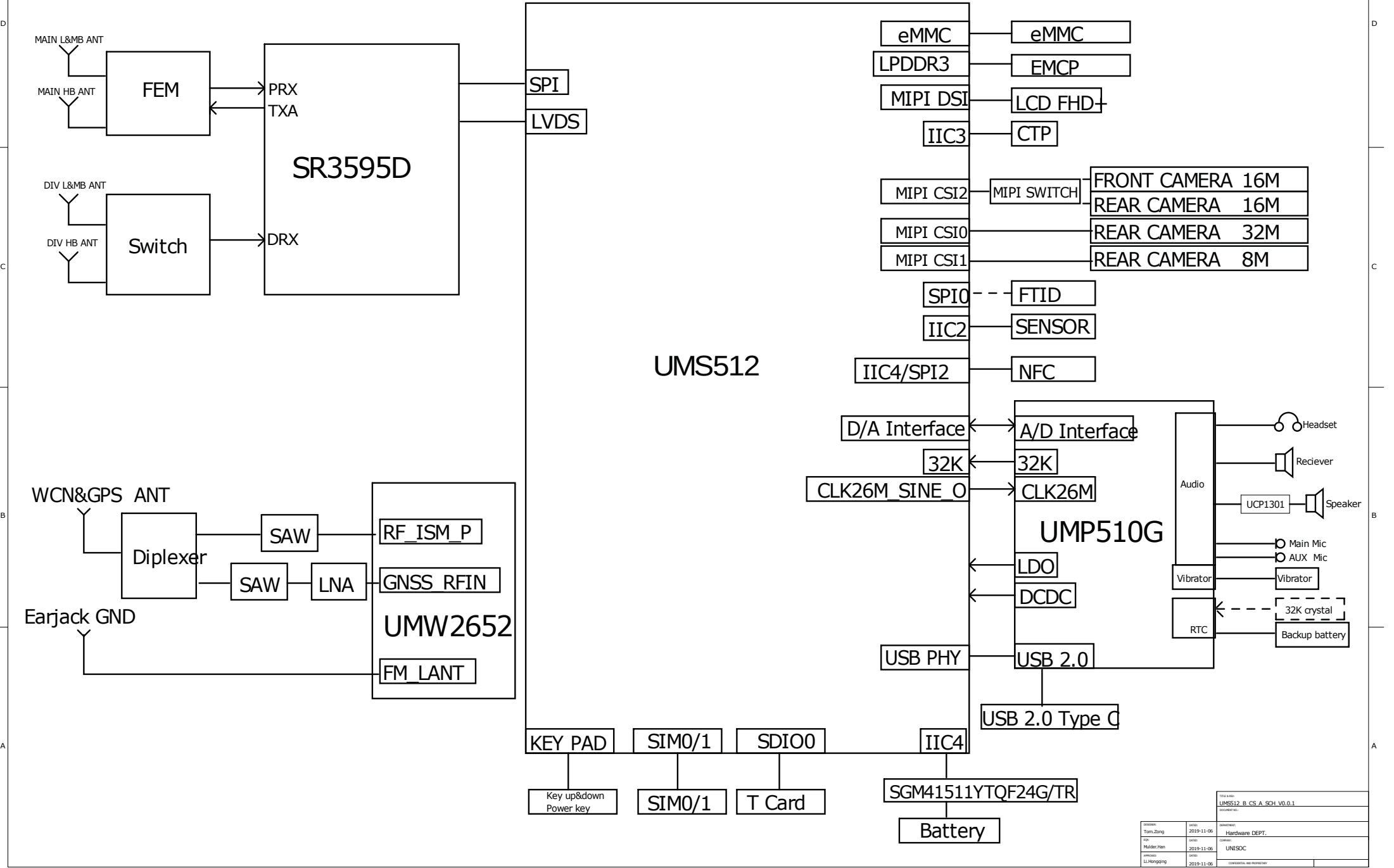
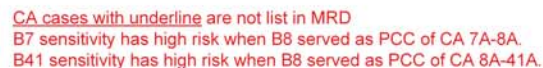


REVISION HISTORY			
CH	DESCRIPTION	APPROVED	DATE

BLOCK DIAGRAM



REVISION RECORD			
CR	REV NO	APPROVED	DATE



		TITLE & NO:	
		DOCUMENT NO.:	
ISSUED BY:	EXTD:	DATE/TIME:	
BY:	EXTD:	COMMENT:	
APPROVED:	EXTD:	CONFIDENTIAL AND PROPRIETARY	

V0.0.1

Change_Note

UMS512_B_CS_A_SCH_V0.0.1

2024/10/13

J575_V1.0Ô- Àí ´ ÓJ527B_6108310_D3EF_V1.1_210909ĐƧ , Ă

- 1.RFĚ«²¿°´ÔÕxíĐĂ²Í¿¼Ěè¼ĚĚ¬Ĭ»°ĂĚ«²¿±ă, ũ
- 2.¼ŮĚĂĚý¼«¹Ů, ĂĬª SOT-523-ăx°Ě¬ĬƧĂ÷μçxè, ũ, Ă·ăx°
- 3.CAMŋĭ´Òă°´ÔÕ¿Ĭ»§ŋĭ´Òă--DVDDμĂLDO, ĂĬªĂĚDFN1.6*1.2-8L
- 4.³ăμçμçĂ·Ôô¼ÓCCĐ-ÔéIC---ýĐƧ, ĂĬøĂç
- 5.LCMP´ÔÕ¿Ĭ»§ŋĭ´Ôă
- 6.NFCμĂVENÔô¼ÓĚĬĂ-μçĂ·¼ăĚĚýxĬ¹ăIC
- 7.³ăμçIC, ĂĬªĂ·¼ŋĭ³ăĚ¬Ĭ»°ĂR6109, ĂĬªR6130
- 8.Ě¼³ý°ăĬũ¹ă¼ă, ĐĚ¬, ĂĬª¿Ĭ»§10PĬă¼Ů¹ă¼ă, Đ
- 9.°´¼Ůŋĭ´Ôă°´ÔÕ¿Ĭ»§ŋĭ´ÔăĚ¬Ôô¼ÓSOS
- 10.WIFIμĂGNDμĭĚ¬Ôô¼ÓORμçxè
- 11.SIMĭ´, ĂĬªJ563μĂ¿ĭ¬xũ
- 12.SPK, ĂĬªAW87390Ě¬xçÔăĚă³ôμçxè·ăx°0603
- 13.MICE¼³ýĂĚ¹ăĂóĚè¼ĚĚ¼ăĚĚýμĂμçxè
- 14.Ě¼³ý¼ăĚĚýμĂEMMC

2024/12/31 Éý¼ŋV1.1

- 1.PAŋĚÔô¼Ó1610μĂŋƧ¼ŋĭ·Ă»xĂĚÔ¿¹Ů
- 2.ĂŋÔªμĚÔô¼Ó²ăĚÔμă
- 3.¹ă, Đ¹@μç, ĂĬªVDDLDO1
- 4.μç³ĐxũμĂ7°Ĭ9PIN, ĂĬªI2CE¬xôμçĂ¿¼ĚĚ¹ÔĂ

2025/01/16 Éý¼ŋV2.0

- 1.Ôô¼ÓEMMCE¬°ă±¼ă, ĂĬªD3EFV1.1
- 2.ĬýĬ²Ôô¼ÓŮxé°, ĂĬ

2025/03/20 Éý¼ŋV2.1

- 1.ĐƧ, Ăμç³Đxũŋĭ´Ôă

TOTAL REV.			
REVISION NO.			
DESCRIPTION	DATE	DEPARTMENT	
REV.	DATE	COMPANY	
APPROVAL	DATE	COMPANY AND PROJECT	

REVISIONS			
NO.	DESCRIPTION	APPROVED	DATE

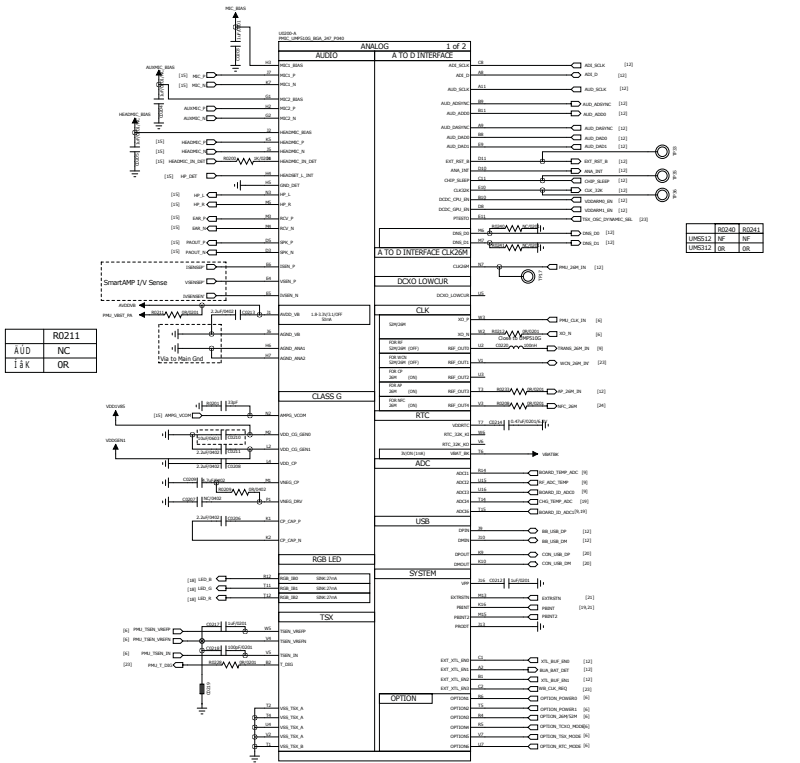
Change_Note

V0.0.1

UMSS12_B_CS_A_SCH_V0.0.1

DESIGNER		DATE	TITLE & NO.	
EAP		DATE	DOCUMENT NO.	
APPROVED		DATE	REVISION/REMARK	
COORDINATOR AND REPRESENTATIVE			SHEET : 1 OF 1	

PMU_ANALOG



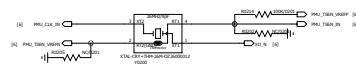
UMPS10G 6 Interrupt Input IO

1st function	2nd function	3rd function	Platform	note
EXT-XTL-EN0	NA	UMPS12	CP	
EXT-XTL-EN1	VBATDET_OK	BLA		
EXT-XTL-EN2	NA	NA	Sensor Hub	
EXT-XTL-EN3	NA	UMW2052		
PTESID	EXT_XTL-EN4	T_SEL		
DCDCCPU-EN	EXT_XTL-EN5			

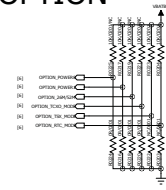
BKBT



TSX£ " PMU£ ©



OPTION

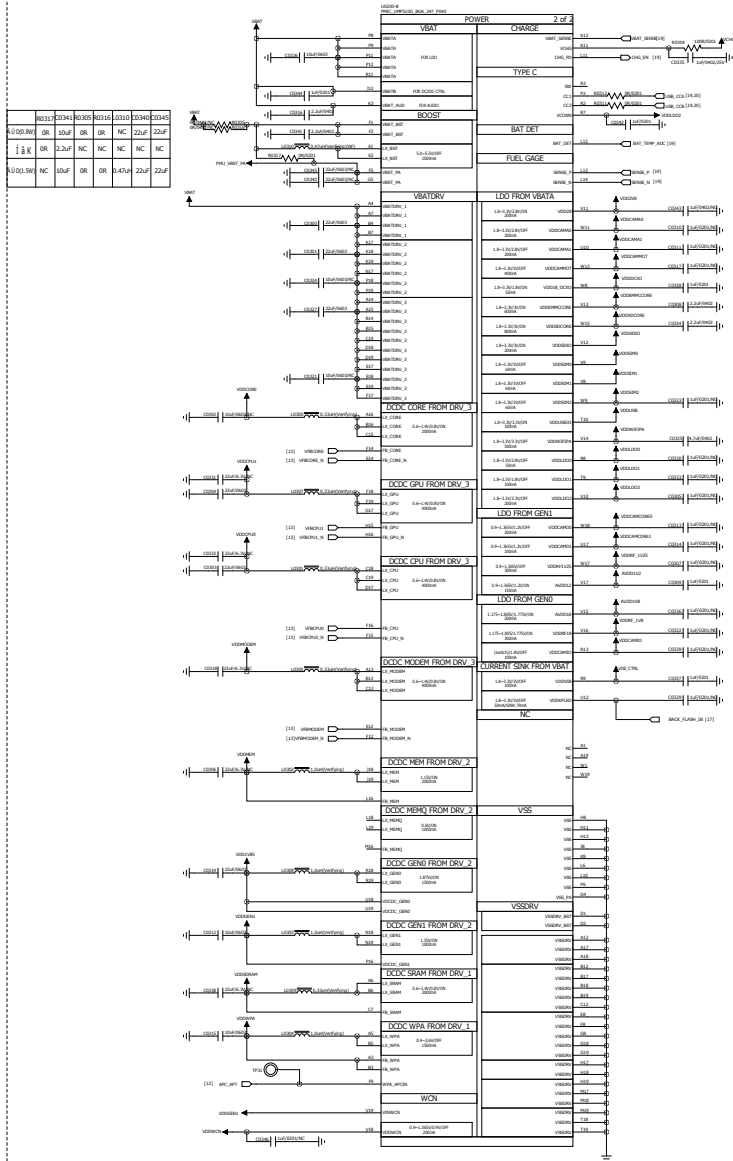


Item	Scenario	Option1	Option2
0	UMPS12+UMPS10G	0	0
1	UMPS12+UMPS10G+DCDC	0	1
2	UMPS12+UMPS10G+DCDC+VDD3/4VDDM02 power supply for SDRAM	1	0
3	UMPS12+UMPS10G+DCDC+VDD3/4VDDM02 power supply for SDRAM	1	1

Scenario	Option1(26M/52M)	Option2(TC10_MODULE)	Option3(TS10_MODULE)	Option4(ETC_MODULE)
26M TC10+32K Crystal	0	1	0	0
26M TSX+32K Crystal	0	0	1	0
26M TSX+32K-less from PMIC internal	0	0	1	1
26M DCDC+32K-less from PMIC internal	0	1	1	1
26M DCDC+32K Crystal	0	1	1	0

Title & Rev		
REVISED	DATE	REMARK
FOR	DATE	CONTENT
APPROVED	DATE	
CONFIDENTIAL AND PROPRIETARY		

PMU_POWER



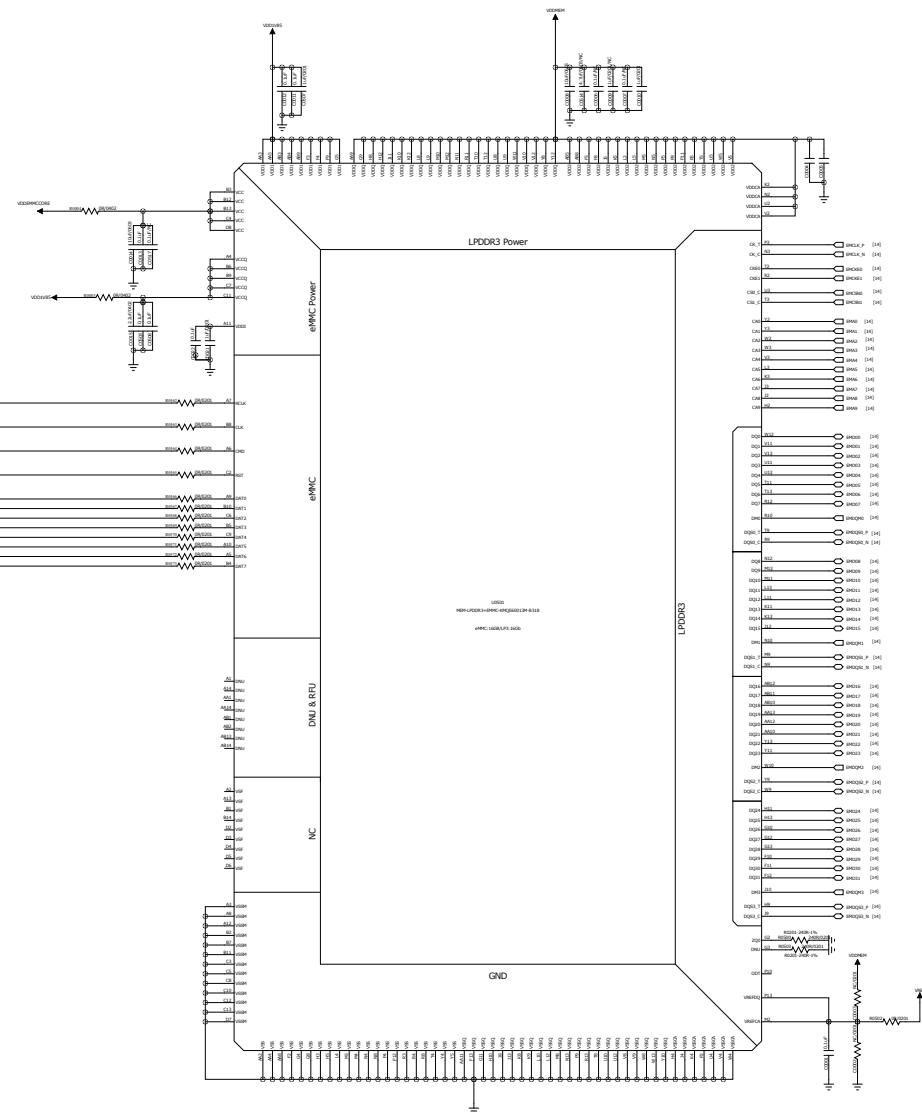
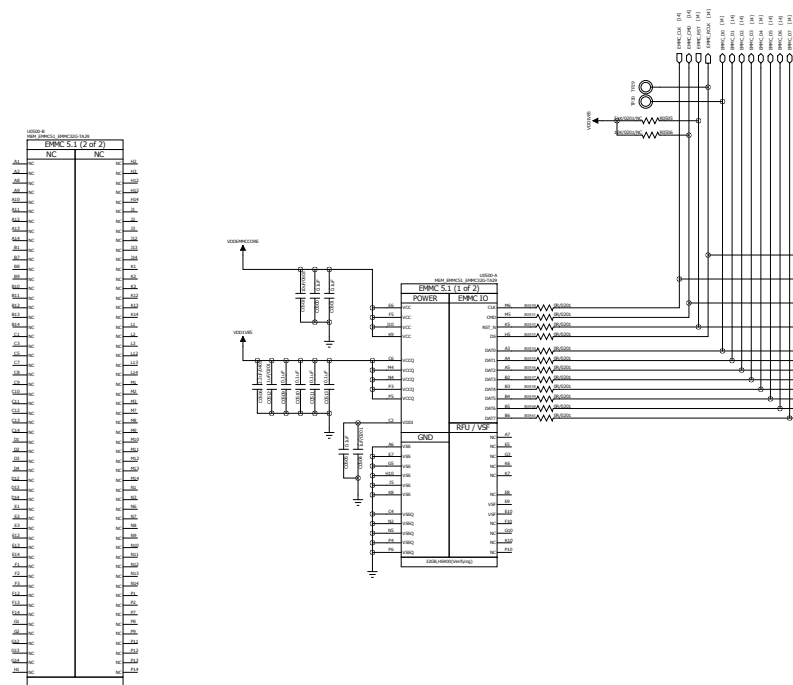
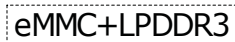
UMP510G DCDC output

Input Power	Power Name	Output Voltage (V)	Output Current (mA)	Default Voltage (V)	Default
VBAT	DCDC CORE	0.3-1.3	2000	0.8	ON
	DCDC GPU	0.3-1.3	4000	0.8	ON
	DCDC CPU	0.3-1.3	4000	0.8	ON
	DCDC MODEM	0.3-1.3	4000	0.8	ON
	DCDC MEM	0.25-1.25	2000	1.15	ON
	DCDC MEMQ	0.25-1.25	1000	0.6	ON
	DCDC GEN0	1.8-2.5	1500	1.85	ON
	DCDC GEN1	0.6-1.5	1000	1.3	ON
	DCDC SRAM	0.3-1.3	2000	0.8	ON
	DCDC WPA	0.6-3.3	1500	/	OFF

UMP510G LDO output

Input Power	Power Name	Output Voltage (V)	Output Current (mA)	Default Voltage (V)	Default
VBAT	VDD28	1.8-3.3	200	2.8	ON
	VDDCAMA0	1.8-3.3	200	2.8	OFF
	VDDCAMA1	1.8-3.3	200	2.8	OFF
	VDDCMMOT	1.8-3.3	400	3	OFF
	VDD18_DCKO	1.8-3.3	50	1.8	ON
	VDDMMCCORE	1.8-3.3	600	3	ON
	VDDSDCORE	1.8-3.3	800	3	ON
	VDDSDIO	1.8-3.3	200	3	ON
	VDDSIM0	1.8-3.3	60	3	OFF
	VDDSIM1	1.8-3.3	60	3	OFF
	VDDSIM2	1.8-3.3	60	3	OFF
	VDDUSB33	1.8-3.3	100	3.3	ON
	VDDWIFIPA	1.8-3.3	500	3.3	OFF
	VDDLDO0	1.8-3.3	50	2.8	OFF
	VDDLDO1	1.8-3.3	100	3.3	OFF
	VDDLDO2	1.8-3.3	200	3.3	OFF
GEN1	VDDCAMD0	1.0-1.25	400	1.1	OFF
	VDDCAMD1	1.0-1.25	200	1.1	OFF
	VDDRF1V25	1.0-1.25	300	1.25	OFF
GEN0	AVDD12	1.0-1.25	150	1.2	ON
	AVDD18	1.2-1.8	200	1.8	ON
GEN1	VDDRF18	1.2-1.8	300	1.8	ON
	VDDCAMIO	1.2-1.8	100	1.8	OFF
GEN1	WCN	1.0-1.6	200	1	OFF

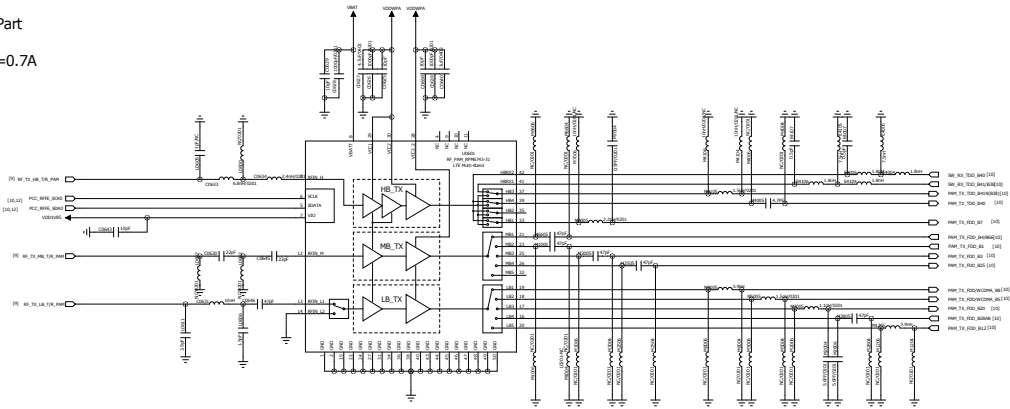
DESIGNED	DATE	DESIGNED BY
CHECKED	DATE	CHECKED BY
APPROVED	DATE	APPROVED BY
CONFIDENTIAL AND PROPRIETARY		



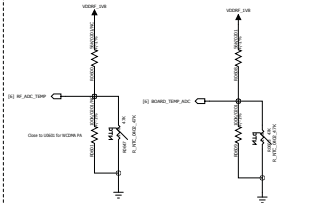
REVISION HISTORY			
VER.	REV. NO.	REVISION	DATE

LTE/WCDMA PAM

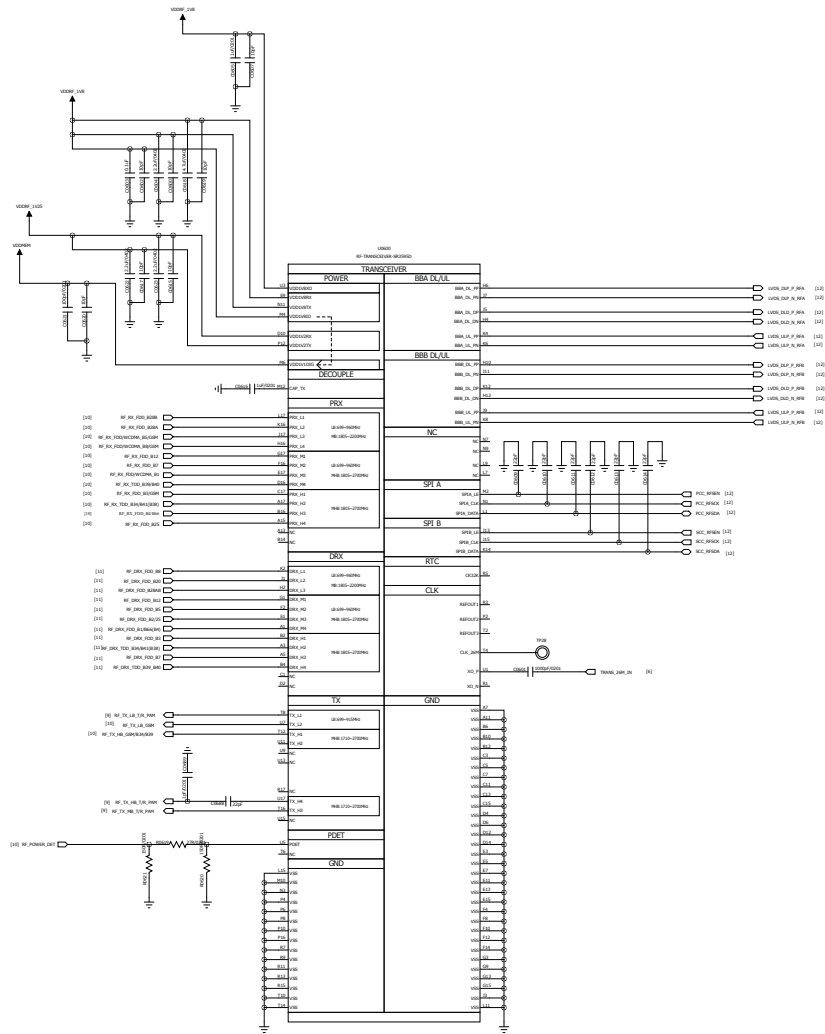
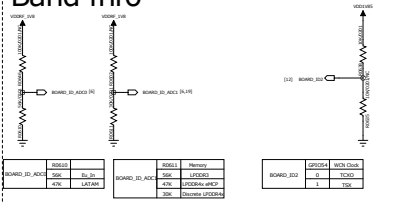
PA Part
Ipp=0.7A



NTC



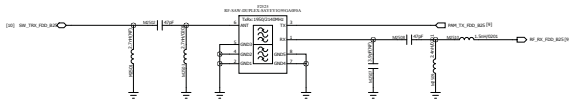
Band info



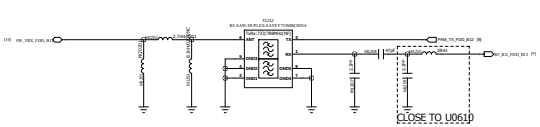
DESIGN & REV			
DOCUMENT NO.			
DESIGNER	DATE	REVISION	REVISION
QA	DATE	REVISION	REVISION
APPROVED	DATE	CONFIDENTIAL AND PROPRIETARY	

REVISION HISTORY			
REV.	REASON	APPROVED	DATE

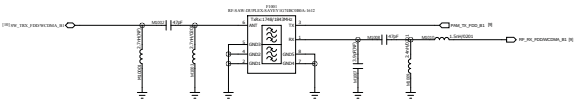
FDD_LTE_B2/B25



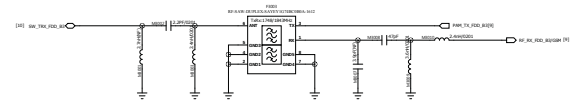
FDD_LTE_B12/17



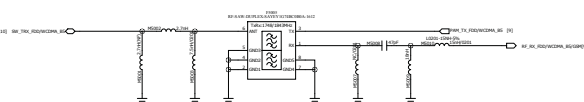
FDD_LTE_B1



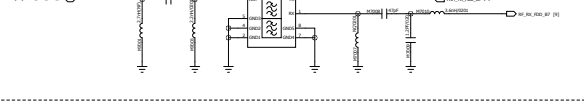
FDD_LTE_B3



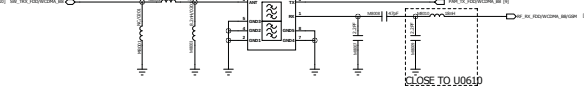
FDD_LTE_B5/B26_WCDMA_B5_GSM



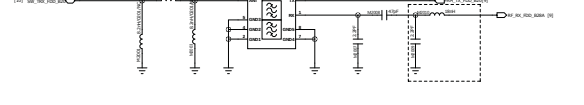
FDD_LTE_B7



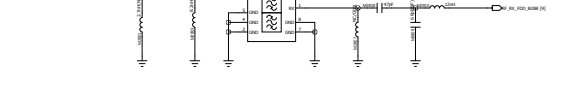
FDD_LTE_WCDMA_B8



FDD_LTE_B20

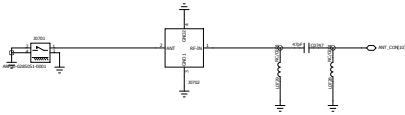


FDD_LTE_B28AB

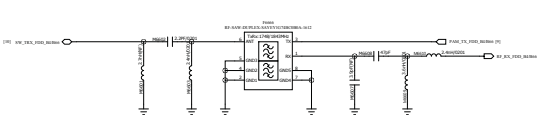


GSM1900

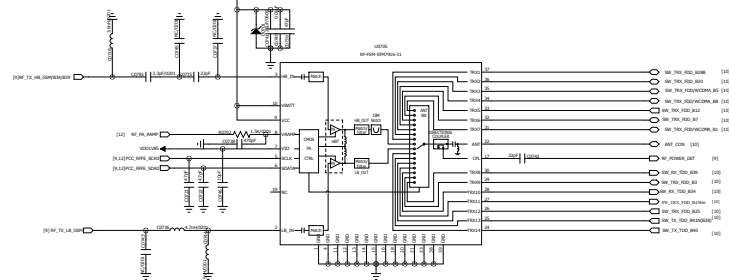
Primary Antenna



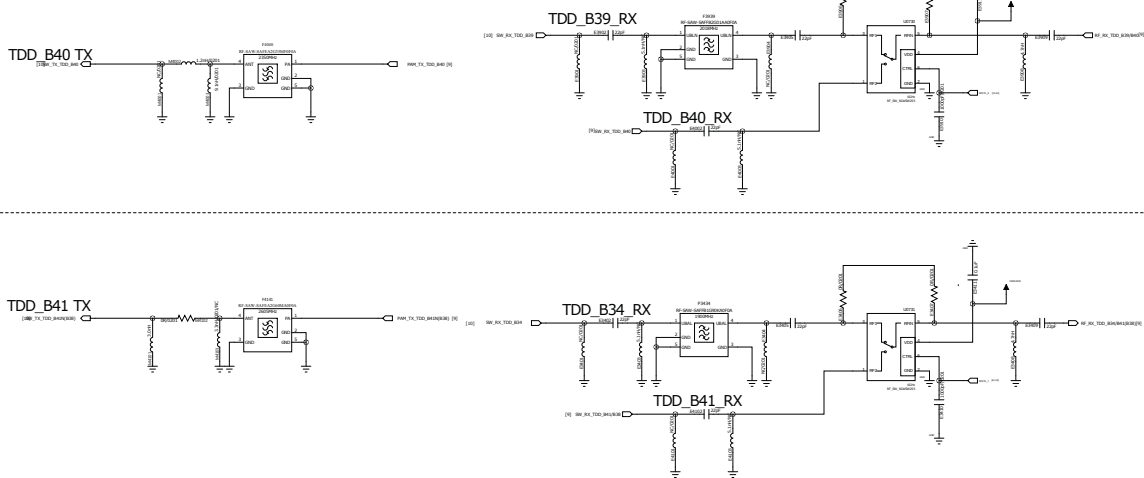
FDD_LTE_WCDMA_B4/B66



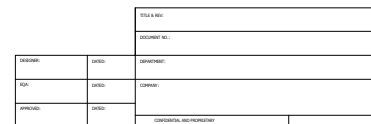
TDD B34/B39/GSM PA + Switch

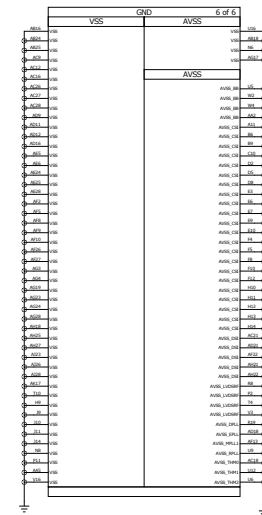
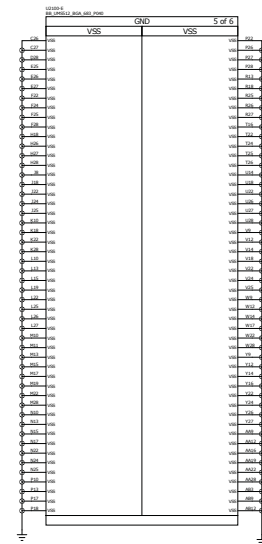
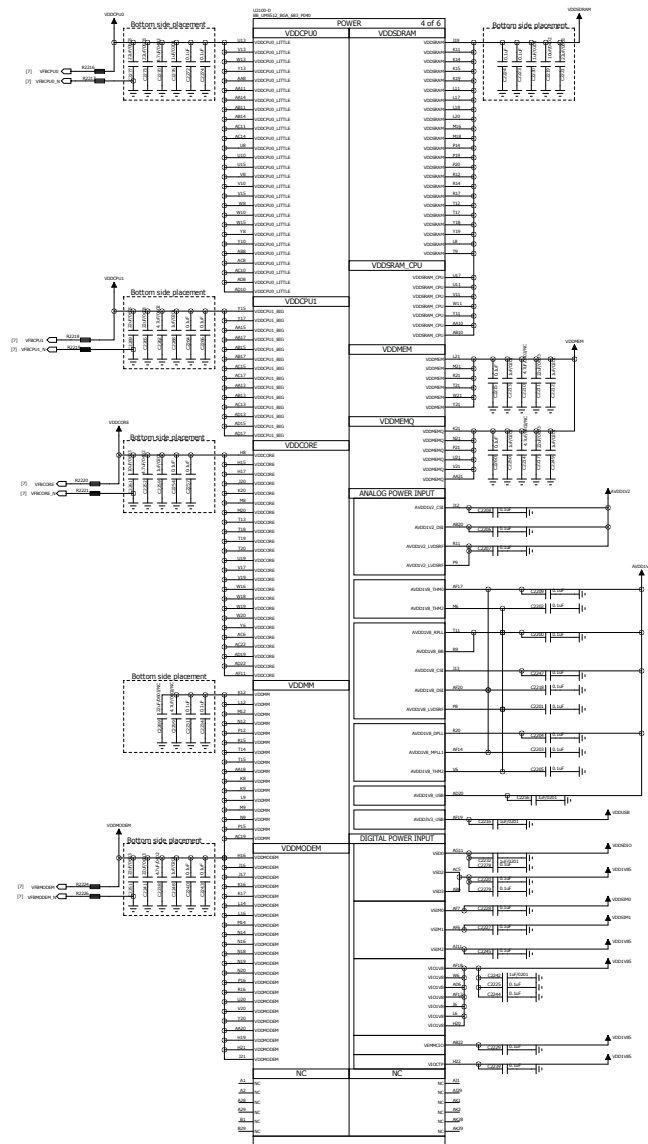


TDD B34_B38_B39_B40_B41



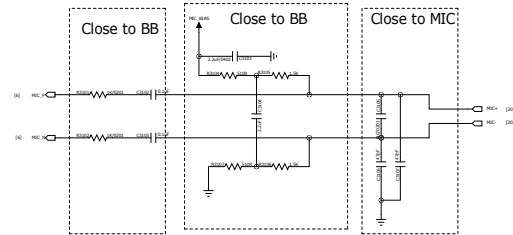
TDD & B34		
REVISION HISTORY		
REVISION	DATE	APPROVED
1.0	2018-01-10	
APPROVED	DATE	REVISION
CONFIDENTIAL AND PROPRIETARY		



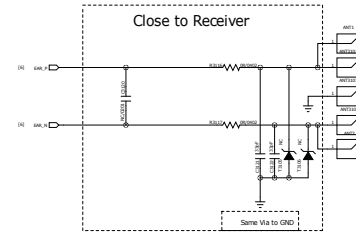


		TITLE & NO.	
		DOCUMENT NO.	
ISSUER	DTG	DEPARTMENT	
RCN	DTG	COMMENT	
APPROVAL	DTG	CONFIDENTIAL AND INCORPORATION	

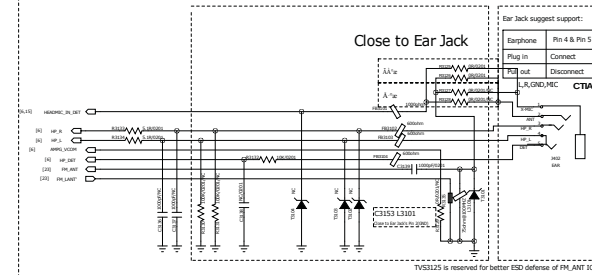
MAIN MIC



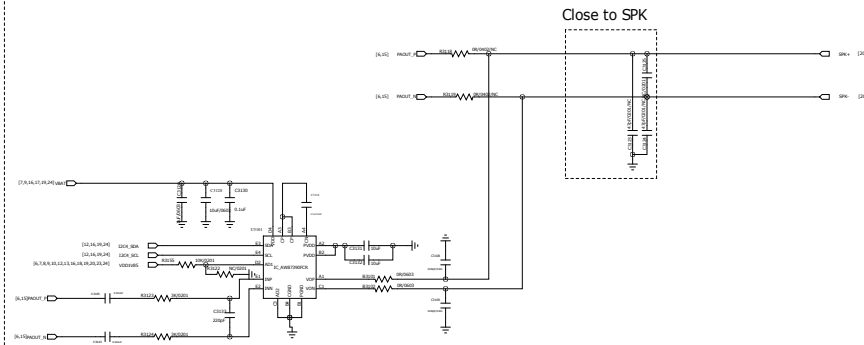
RECEIVER



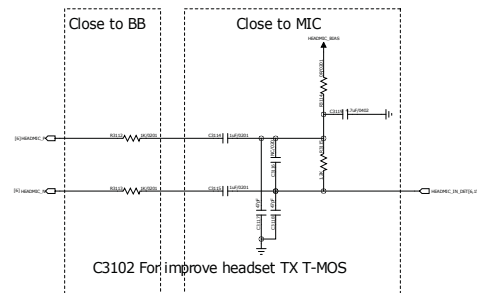
3.5mm Ear Jack TypeC Ear Jack



SPEAKER



HEAD MIC

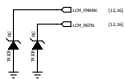
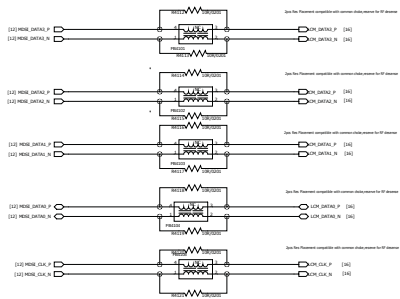
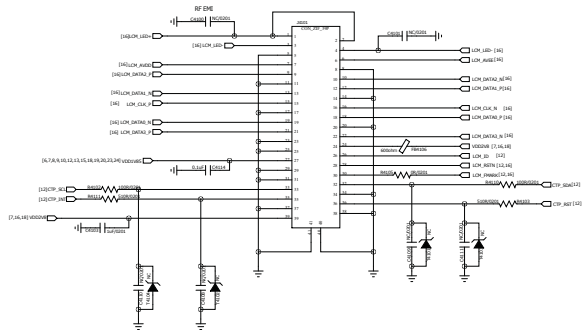


REVISION RECORD			
LTN	ECO NO	APPROVED	DATE

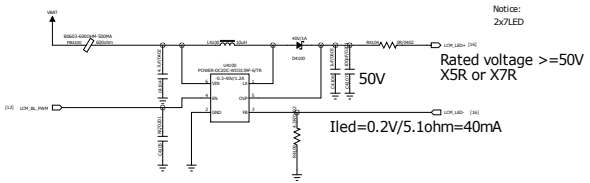
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		Document No.:	
ISSUING	DATE:	ISSUING/ISSUED:	
FOR	DATE:	COMPLAINT	
OFFICER:	DATE:	FIVE/FOUR/FOUR, AND ONE/ONE/ONE/ONE	

REVISION HISTORY			
REV	REASON	APPROVED	DATE

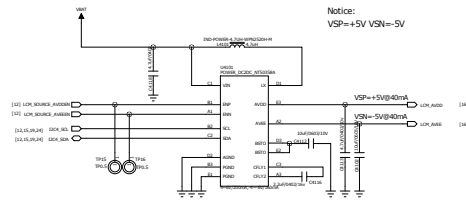
5.99" LCM(MIPI)



Back Light Driver



Source Driver

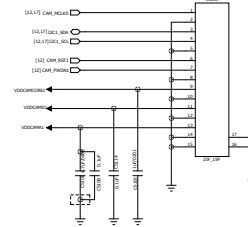


REVISION HISTORY			
REV	REASON	APPROVED	DATE

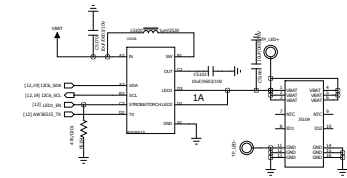
Rear Camera 0: Main 32M



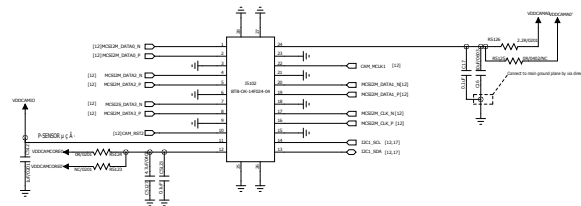
Rear Camera : 8M



LED



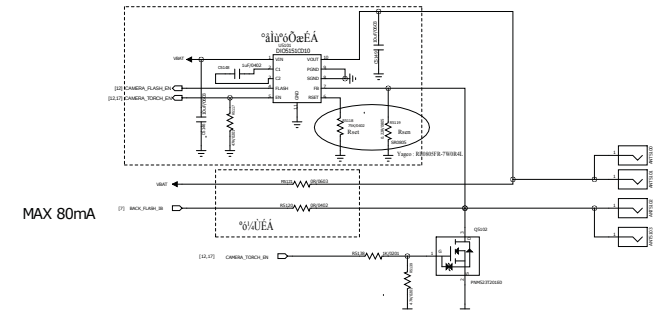
Front Camera 2:16M



For Battery Back-up, please refer to the following:



Back FLASH LED

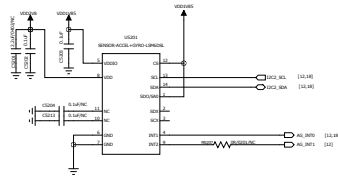


MAX 80mA

REVISION HISTORY			
REV.	DATE	DESCRIPTION	BY
1.0	2018-01-10	Initial Release	XXX
1.1	2018-01-10	Initial Release	XXX
1.2	2018-01-10	Initial Release	XXX
1.3	2018-01-10	Initial Release	XXX
1.4	2018-01-10	Initial Release	XXX
1.5	2018-01-10	Initial Release	XXX
1.6	2018-01-10	Initial Release	XXX
1.7	2018-01-10	Initial Release	XXX
1.8	2018-01-10	Initial Release	XXX
1.9	2018-01-10	Initial Release	XXX
2.0	2018-01-10	Initial Release	XXX
2.1	2018-01-10	Initial Release	XXX
2.2	2018-01-10	Initial Release	XXX
2.3	2018-01-10	Initial Release	XXX
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2.8	2018-01-10	Initial Release	XXX
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3.1	2018-01-10	Initial Release	XXX
3.2	2018-01-10	Initial Release	XXX
3.3	2018-01-10	Initial Release	XXX
3.4	2018-01-10	Initial Release	XXX
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3.8	2018-01-10	Initial Release	XXX
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4.1	2018-01-10	Initial Release	XXX
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4.7	2018-01-10	Initial Release	XXX
4.8	2018-01-10	Initial Release	XXX
4.9	2018-01-10	Initial Release	XXX
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5.9	2018-01-10	Initial Release	XXX
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6.6	2018-01-10	Initial Release	XXX
6.7	2018-01-10	Initial Release	XXX
6.8	2018-01-10	Initial Release	XXX
6.9	2018-01-10	Initial Release	XXX
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7.7	2018-01-10	Initial Release	XXX
7.8	2018-01-10	Initial Release	XXX
7.9	2018-01-10	Initial Release	XXX
8.0	2018-01-10	Initial Release	XXX
8.1	2018-01-10	Initial Release	XXX
8.2	2018-01-10	Initial Release	XXX
8.3	2018-01-10	Initial Release	XXX
8.4	2018-01-10	Initial Release	XXX
8.5	2018-01-10	Initial Release	XXX
8.6	2018-01-10	Initial Release	XXX
8.7	2018-01-10	Initial Release	XXX
8.8	2018-01-10	Initial Release	XXX
8.9	2018-01-10	Initial Release	XXX
9.0	2018-01-10	Initial Release	XXX
9.1	2018-01-10	Initial Release	XXX
9.2	2018-01-10	Initial Release	XXX
9.3	2018-01-10	Initial Release	XXX
9.4	2018-01-10	Initial Release	XXX
9.5	2018-01-10	Initial Release	XXX
9.6	2018-01-10	Initial Release	XXX
9.7	2018-01-10	Initial Release	XXX
9.8	2018-01-10	Initial Release	XXX
9.9	2018-01-10	Initial Release	XXX
10.0	2018-01-10	Initial Release	XXX

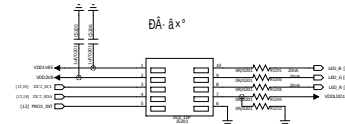
REVISION HISTORY			
CH	REASON	APPROVED	DATE

Accelerometer:

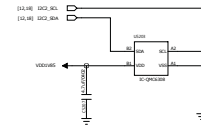


TS210 For ICH20600 FSYNC
RS216 not NF for ICH20600 when FSYNC not connected
RS216 NF for LSM6DS/BMI160
RS215&RS214 NF for BMI160& ICH20600
CS213 NF for LSM6DS/BMI160
CS213 not NF for ICH20600

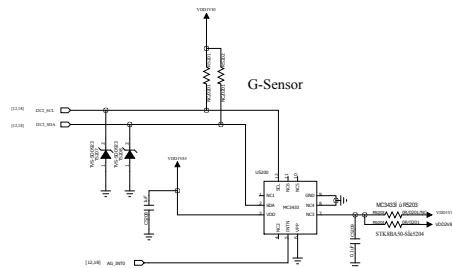
ALS & PROX



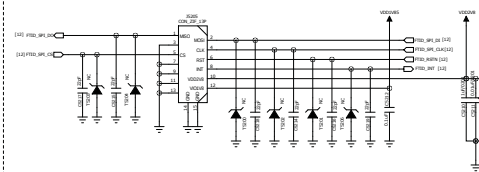
Magnetic Sensor:



G Sensor



FingerPrint ID

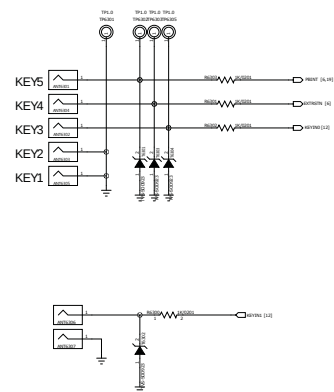


TITLE & NO.			
DOCUMENT NO.			
DESIGNER	DATE	DESIGN CHECKED	
ECO	DATE	COPIED	
APPROVED	DATE	CONSTRUCTION AND MODIFICATION	

REVISION RECORD			
CTR	REASON	APPROVED	DATE

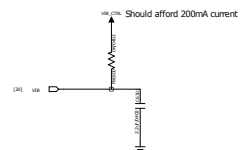
Volume Key + POWER KEY

Two keys Reset :EXTRSTN+PBINT

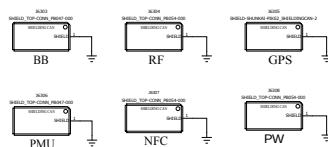


Two keys :EXTRSTN+PBINT

VIBRATOR



SHIELDING



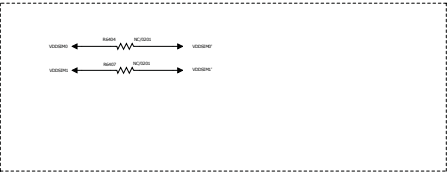
MARK POINT



		TOTAL & BAL	
		DOCUMENT NO.:	
EXERCISE:	DATED:	DEPARTMENT:	
TOP:	DATED:	COMMENT:	
APPROVED:	DATED:	(SIGNATURE, NAME AND DESIGNATION)	

REVISIONS/REVIEWS			
REV	REV NO	APPROVED	DATE

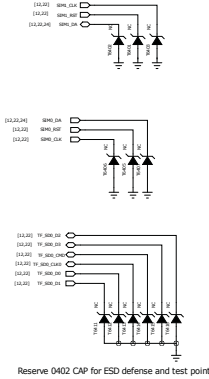
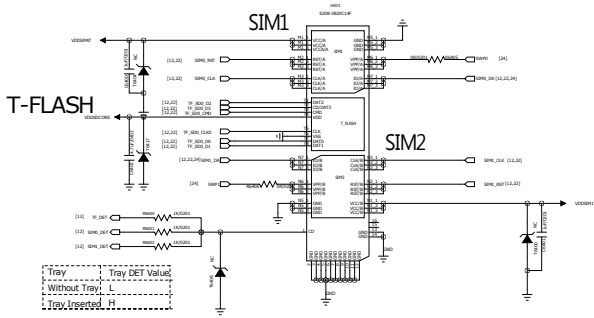
NO NFC



SIM0 & SIM1 & T-Flash

R7201	R7110	R6404	R6407	R6405	R6406
WITH NFC	OR	OR	NF	NF	OR
No NFC	NF	NF	OR	OR	NF

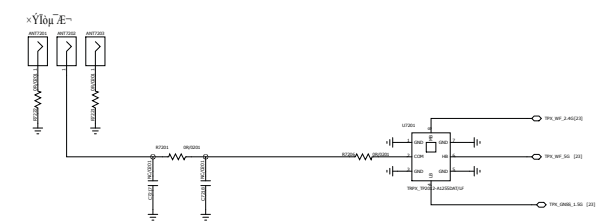
micro/nano sim1+ nano sim2+Tcard



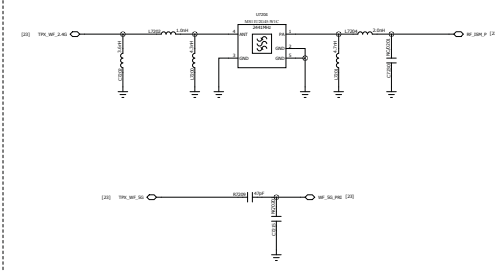
		TITLE & NO.	
		DOCUMENT NO.	
DESIGNER	DATE	REVISION	
RCA	DATE	REVISION	
APPROVAL	DATE	REVISION	
		CONFIDENTIAL AND PROPRIETARY	

REVISION HISTORY			
VER.	REV. NO.	APPROVAL	DATE

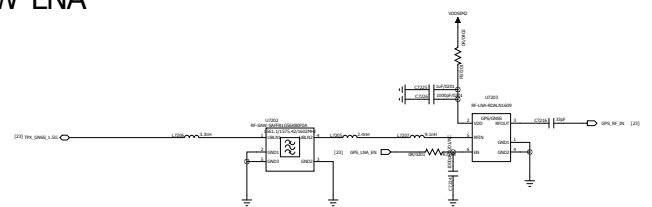
WIFI&BT ANT



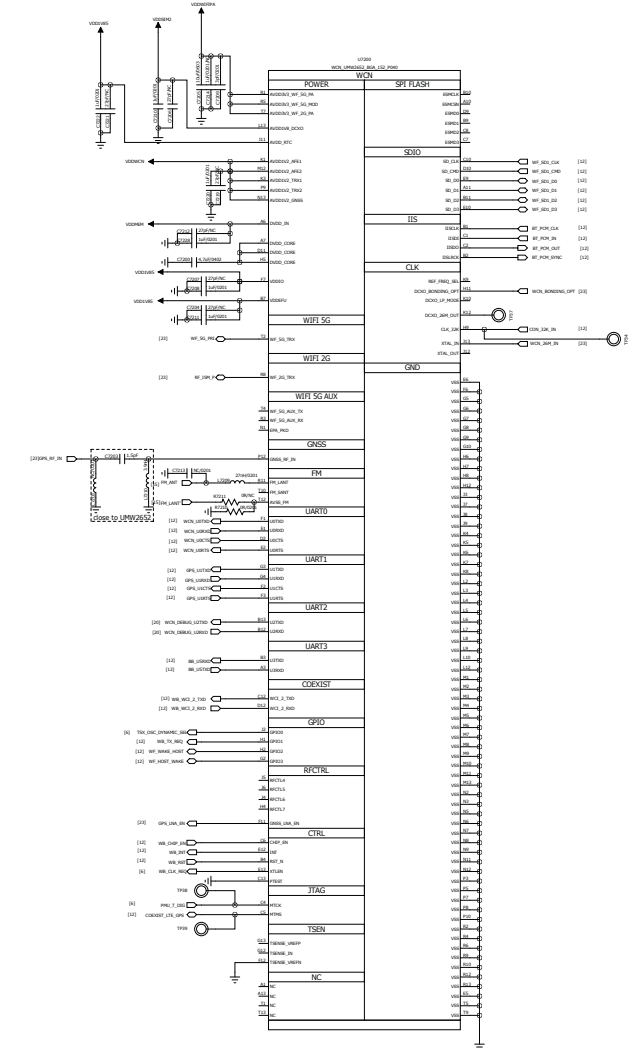
WIFI/BT SAW



GNSS SAW LNA



WCN



Strapping Pin

BONDING OPT	
0	buffer mode
1	XO mode



	R7202	R7205	X7200	R7207	C7223	C7201
TSX (PMU) Only for UM512	OR	NF	NF	NF	NF	NF
TOCDE* WONE @ for UM5312	NF	OR	TCO	OR	22pF	1uF



DESIGNER		DATE		DRAWN		DATE	
EAP		DATE		CHECKED		DATE	
APPROVAL		DATE		CONFIRMED		DATE	

