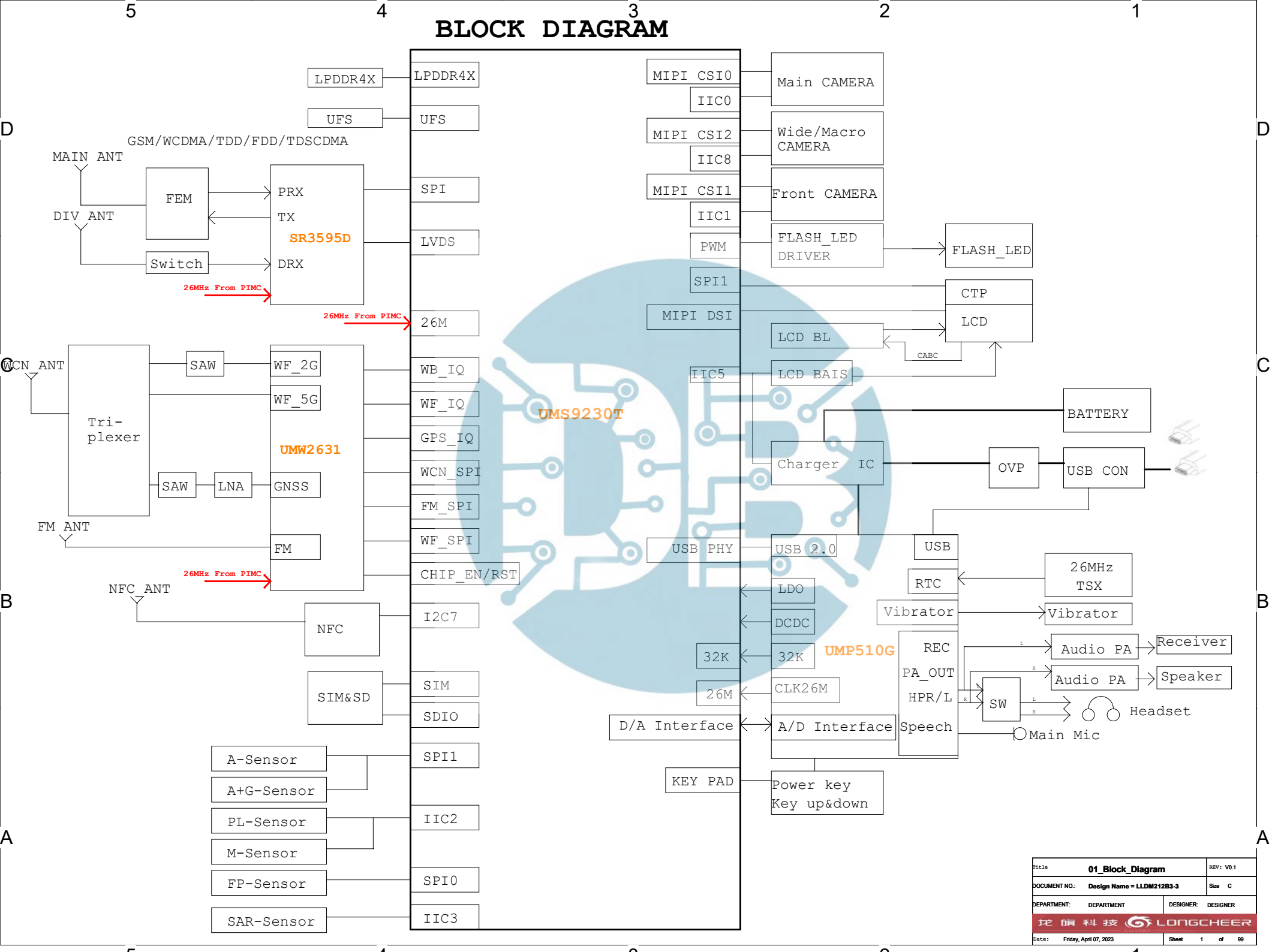
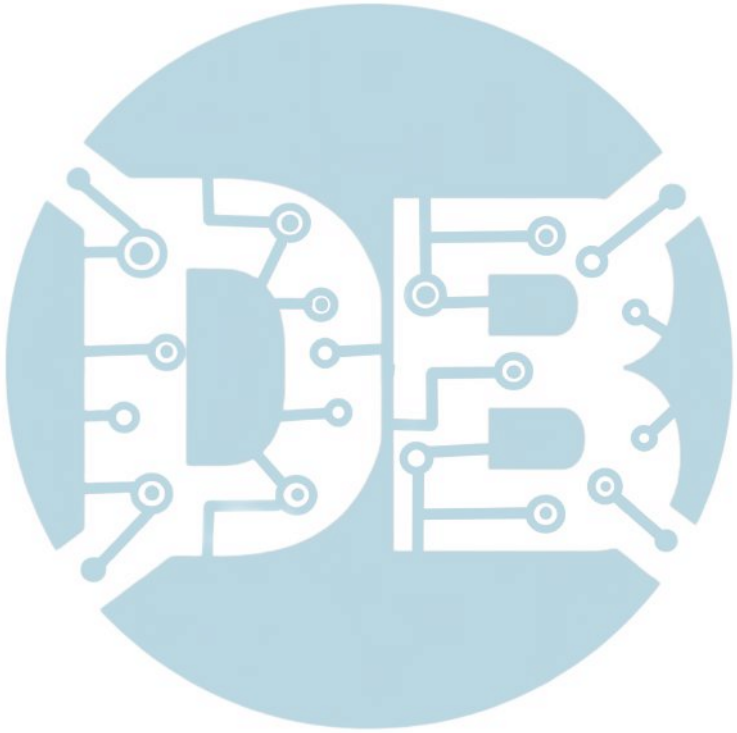
BLOCK DIAGRAM

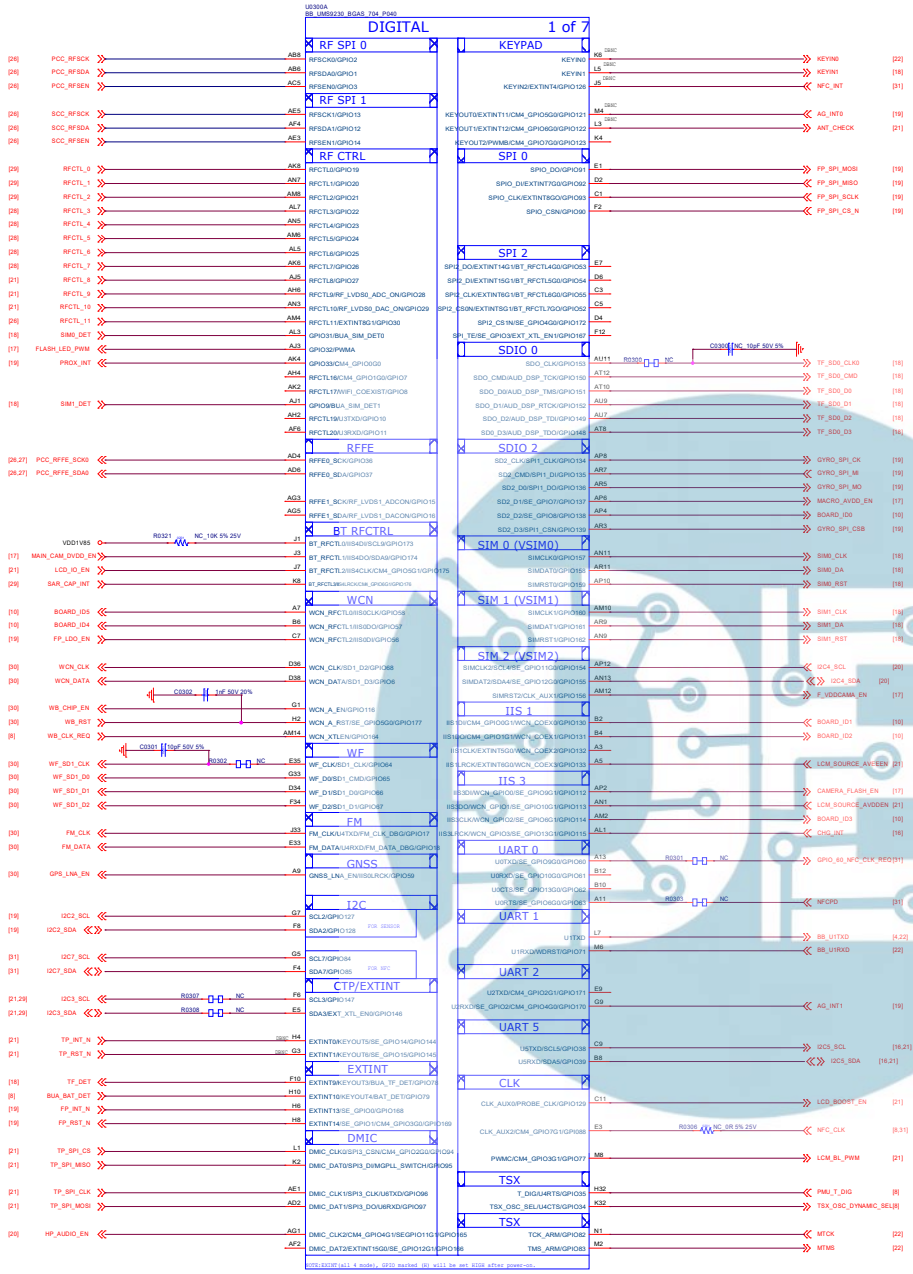


Title	01_Block_Diagram	REV: V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size C
DEPARTMENT:	DEPARTMENT	DESIGNER: DESIGNER
龙旗科技 LONGCHEER		
Date: Friday, April 07, 2023	Sheet 1 of 99	

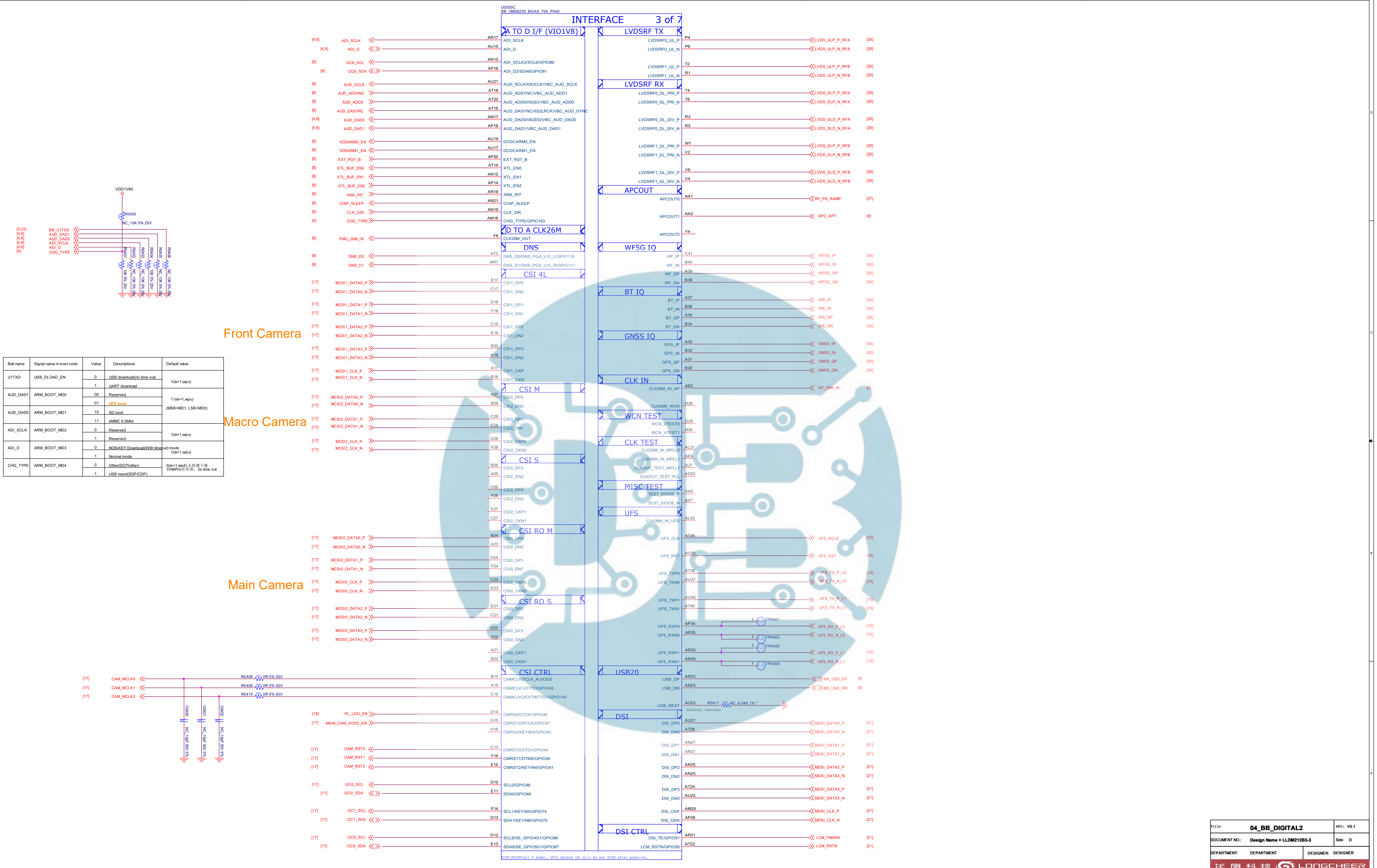
REV	Description
REV0.1	Initial release



Title	02_BB_change list	REV: V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size B
DEPARTMENT: DEPARTMENT		DESIGNER: DESIGNER
龙旗科技 LONGCHEER		
Date: Friday, April 07, 2023		Sheet 2 of 99

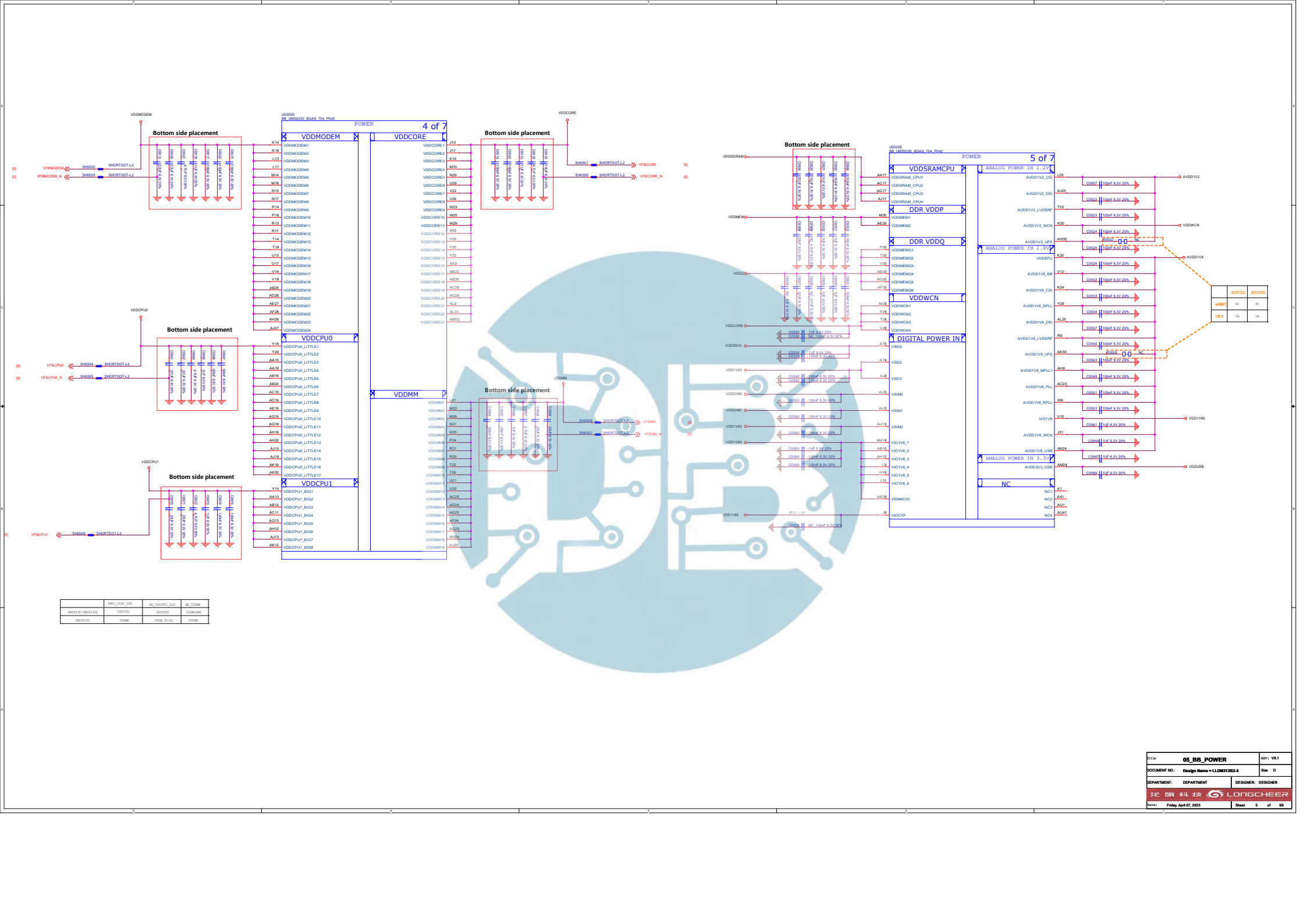


Title	03_BB_DIGITAL1		SZV: V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3		Size: D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Friday, April 07, 2023	Sheet 3 of 99	



Ball name	Signal name in boot code	Value	Descriptions	Default value
U1TXD	USB_DLOAD_EN	0	USB download(no time out)	1(ie=1,wpu)
		1	UART download	
AUD_DAD1	ARM_BOOT_MD0	00	Reserved	11(ie=1,wpu) (MSB=MD1, LSB=MD0)
		01	UFS boot	
AUD_DAD0	ARM_BOOT_MD1	10	SD boot	
		11	eMMC 6.5Mhz	
ADI_SCLK	ARM_BOOT_MD2	0	Reserved	1(ie=1,wpu)
		1	Reserved	
ADI_D	ARM_BOOT_MD3	0	NON-KEY Download(With timeout) mode	1(ie=1,wpu)
		1	Normal mode	
CHG_TYPE	ARM_BOOT_MD4	0	Other(DCP/other)	0(ie=1,wpd) 无按键下载和N6Pro有差别，3s time out
		1	USB insert(SDP/CDP)	

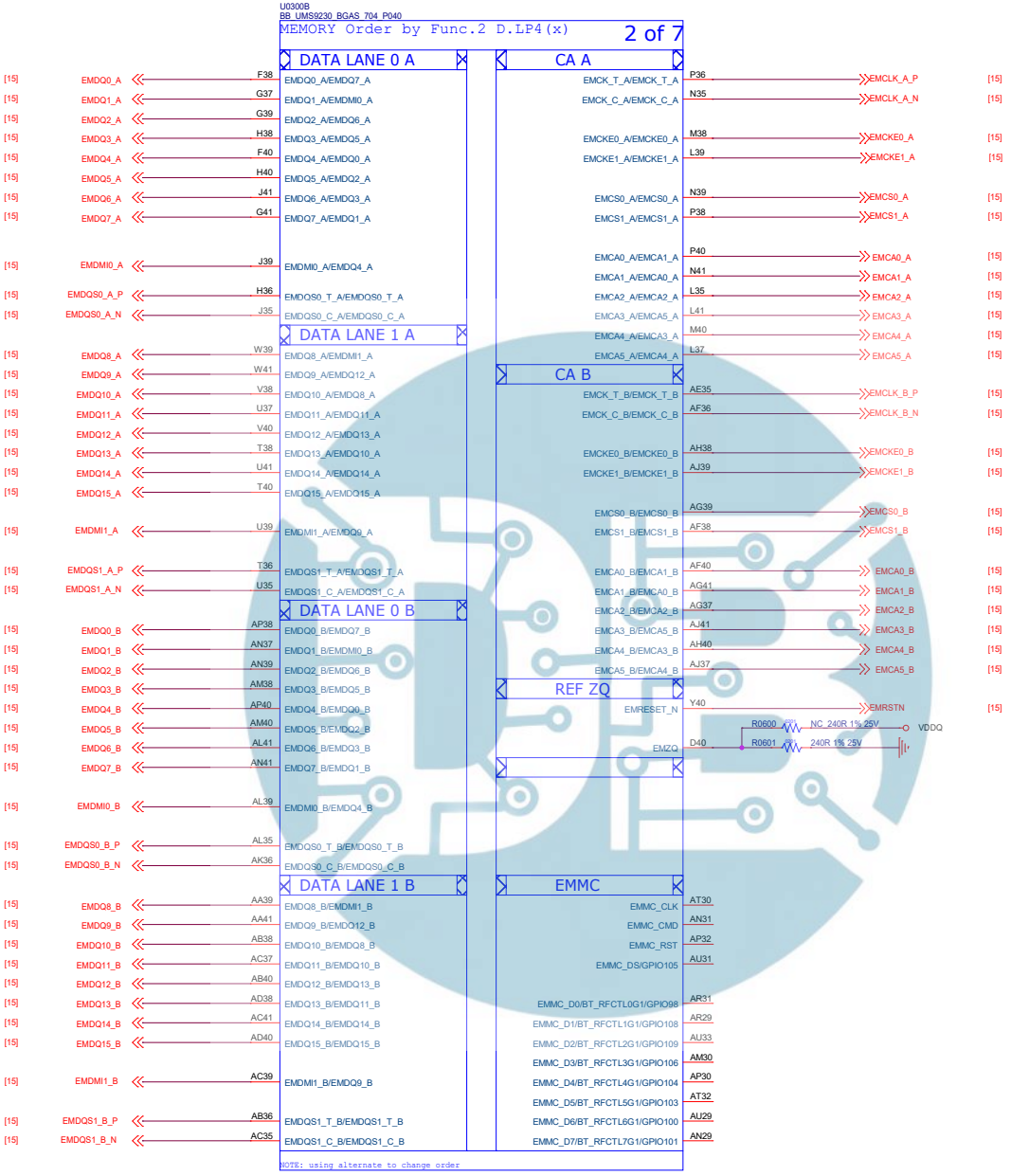
Title	04_BB_DIGITAL2	REV:	V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size	D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
Date:	Friday, April 07, 2023	Sheet 4 of 99	



	PMIC_DCDC_GPU	8B_VDDCPU1_BIG	8B_VDDMM
UMS9230/UMS9230i	VDDCPU1	VDDCPU1	VDDMODEM
UMS9230T	VDD0M	FROM DC-DC	VDDMM

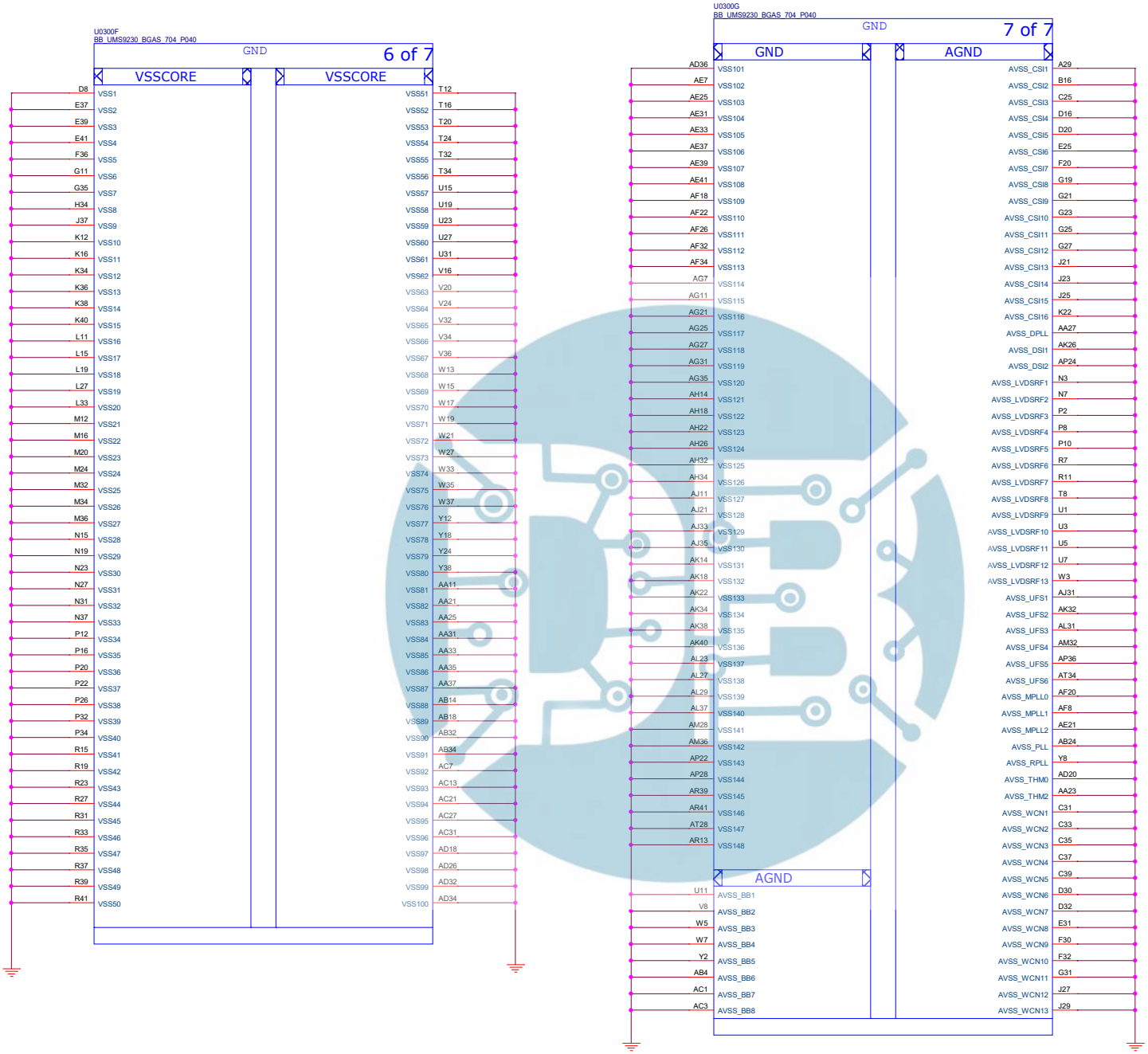
Title	05_BB_POWER
DOCUMENT NO.:	Design Name = LLDM212B3-3
DEPARTMENT:	DEPARTMENT
DESIGNER:	DESIGNER
Date:	Friday, April 07, 2023
REV:	V0.1
Size	D
Sheet	5 of 99

龙 旗 科 技 LONGCHEER



UFS 删除
EMMC使用

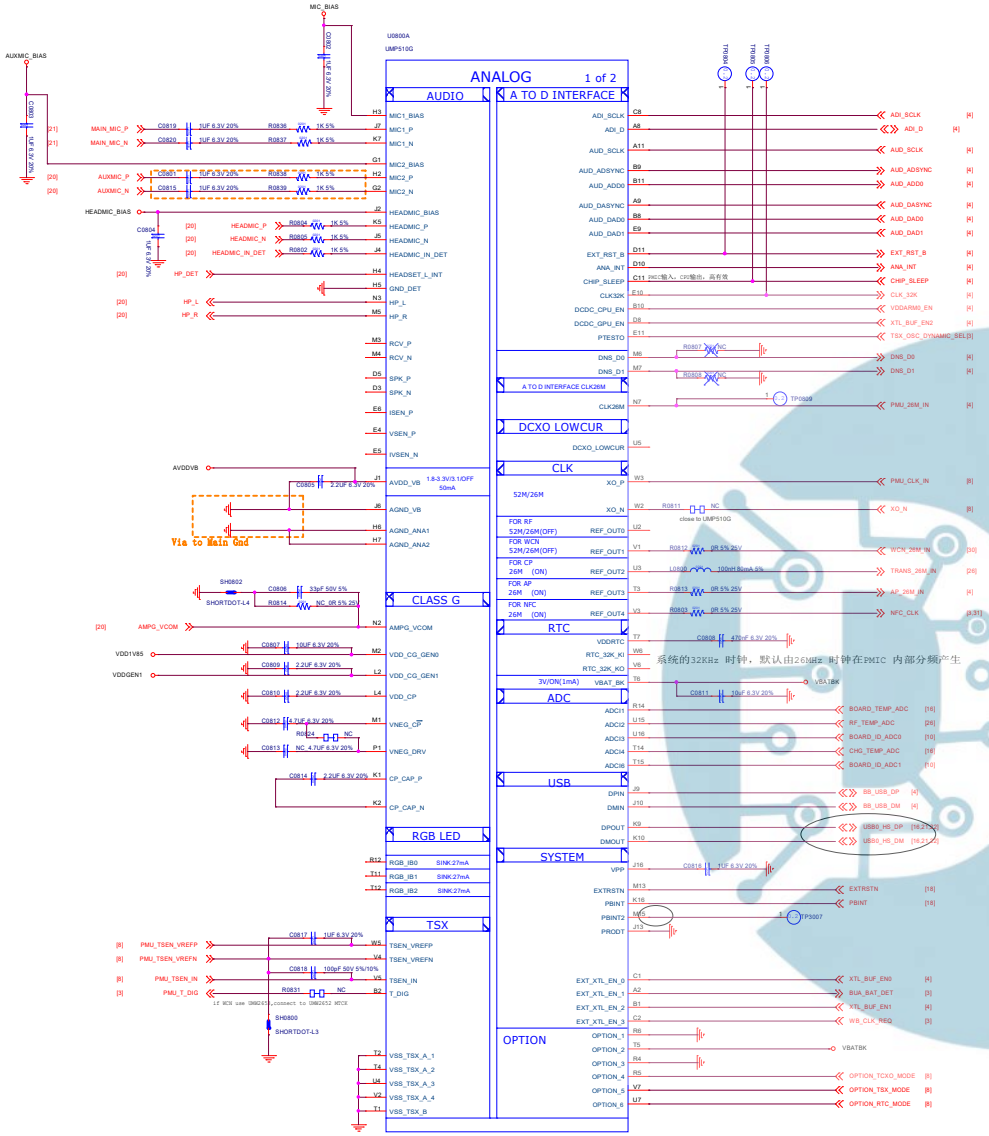
Title	06_BB_Memory		REV: V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3		Size C
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date: Friday, April 07, 2023		Sheet 6 of 99	

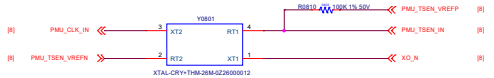


Title	07_BB_GND		REV: V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3		Size C
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date: Friday, April 07, 2023		Sheet 7 of 99	

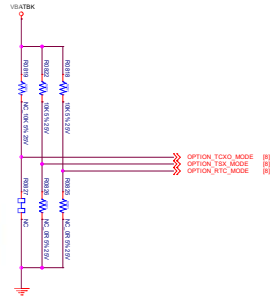
PMU_ANALOG

TSX（PMU）Only





Board ID

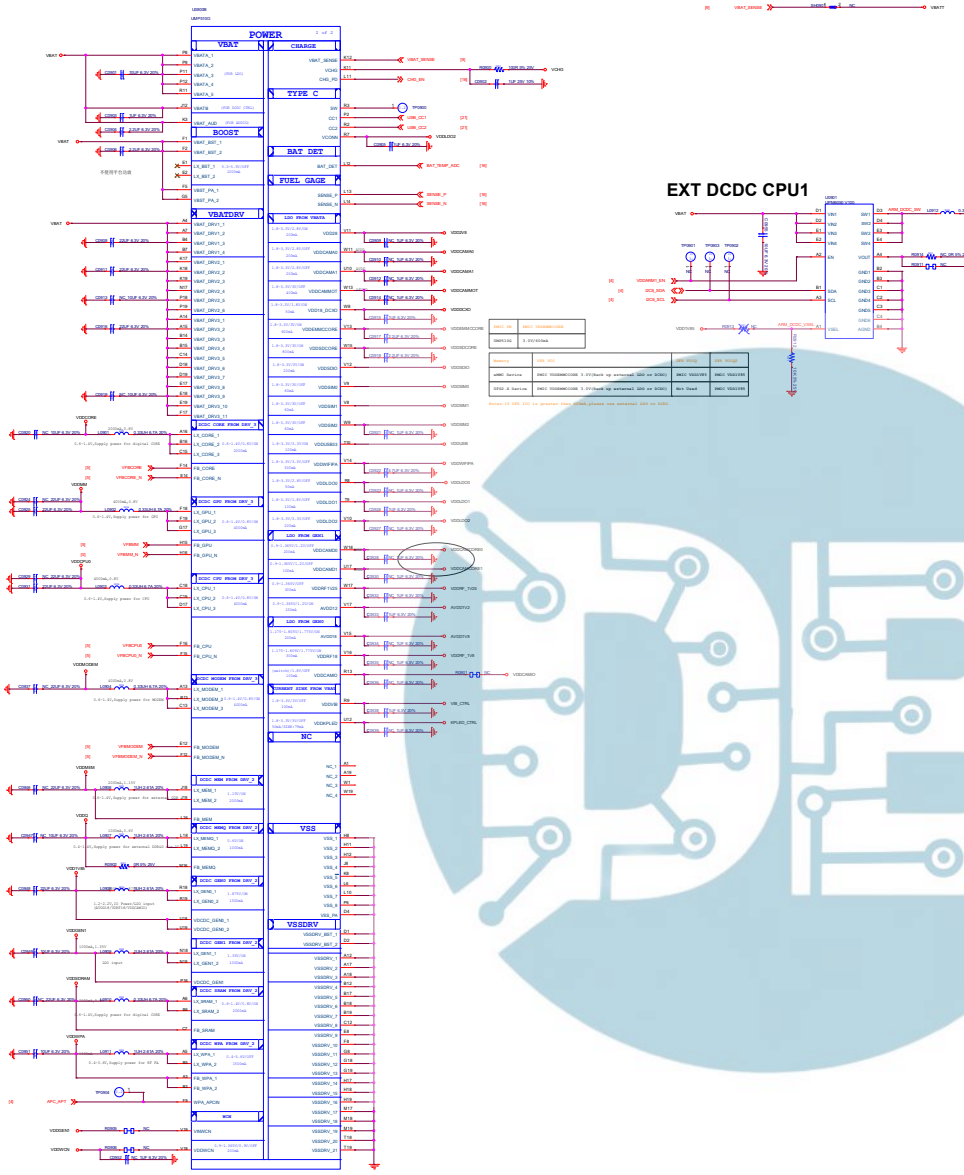


Item	Scenario	Option1	Option2
0	Qogir L6+UMP510G	0	0
--> 1	Qogir L6+UMP510G+DCDC	0	1
2			
3			

Scenario	Option3(26M/52M)	Option4(TCXO_MODE)	Option5(TSX_MODE	Option6(RTC_MODE)
26M TCXO+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 DCXO+32K-less from PMIC internal	0	1	1	1
26M DCXO+32K Crystal	0	1	1	0

Option1	Option2	Description
0	0	The DCDCGPU controlled by UMP510G ADI interface signal DCDC_GPU_EN. The typical application of DCDCGPU is Unisoc BB chip CPU power supply.
0	1	The DCDCGPU default on and uncontrollable by UMP510G ADI interface signal DCDC_GPU_EN
1	0	
1	1	The DCDCMEMQ controlled by UMP510G ADI interface signal DCDC_GPU_EN. The typical application of DCDCMEMQ is Unisoc BB chip dual rail SRAM power supply.

Title: 08_UMP510G_Digital		REV: V0.1
DOCUMENT NO.: Design Name = LLDM212B3-3		Size: D
DEPARTMENT: DEPARTMENT	DESIGNER: DESIGNER	
龙 飙 科 技 LONGCHEER		
Date: Friday, April 07, 2023	Sheet 8 of 99	



Power name	Output Voltage(V)	Output Current	Default Voltage(V)	Default status	Feedback Sense	Usage
DCDCCORE	0.6-1.4	2000mA	0.8	ON	Remote	Supply power for digital CORE
DCDCGPU	0.6-1.4	4000mA	0.8	ON	Remote	Supply power for GPU
DCDCCPU	0.6-1.4	4000mA	0.8	ON	Remote	Supply power for CPU
DCDCMODEM	0.6-1.4	4000mA	0.8	ON	Remote	Supply power for MODEM
DCDCMEM	0.6-1.4	2000mA	1.15	ON	Local	Supply power for external DDR
DCDCMEMQ	0.4-1.4	1000mA	0.6	ON	Local	Supply power for external DDR & D die IO
DCDCGEN0	1.2-2.2	1500mA	1.875	ON	Local	IO Power/LDO input (AVDD18/VDRF18/VDDCAMIO)
DCDCGEN1	0.6-1.95	1000mA	1.35	ON	Local	LDO input (VDDCAMD0/VDDCAMD1/VDDRF1V25/AVDD12)
DCDCSRAM	0.6-1.4	2000mA	0.8	ON	Local	Supply power for digital CORE
DCDCWPA	0.4-3.6	1500mA	NA	OFF	Local	Supply power for RF PA
VBST_PA	5.0-6.0	1000mA	NA	OFF	Local	Audio PA Power

Power From	Power Name	Output Voltage (V)	Output Current (mA)	Trace width (mm)	Default voltage(V)	Default status	Usage
VBAT	VDDCAMA0	1.8-3.3	200	±0.2	2.8	OFF	Camera analog power supply
	VDDCAMA1	1.8-3.3	200	±0.2	2.8	OFF	Camera analog power supply
	VDDCAMMOT	1.8-3.3	400	±0.4	3.0	OFF	Camera Auto Focus motor power supply
	VDDSDCORE	1.8-3.3	800	±0.8	3.0	ON	SD Card power supply
	VDDSIM0	1.8-3.3	60	±0.1	3.0	OFF	SIM card power supply
	VDDSIM1	1.8-3.3	60	±0.1	3.0	OFF	SIM card power supply
	VDDSIM2	1.8-3.3	60	±0.1	3.0	OFF	SIM card power supply
	VDD28	1.8-3.3	200	±0.2	2.8	ON	IO/ LCD analog power supply
	VDDEMMCCORE	1.8-3.3	600	±0.6	3.0	ON	eMMC core power supply
	VDDLDO0	1.8-3.3	50	±0.1	2.8	OFF	GPS LNA、RF switch
	VDDLDO1	1.8-3.3	100	±0.1	1.8	OFF	Normally voltage mode for vibrator
	VDDLDO2	1.8-3.3	200	±0.2	3.3	OFF	Normally voltage mode for vibrator
	VDDSDIO	1.8-3.3	200	±0.2	3.0	ON	SDIO power supply
	VBATBK	2.45-3.30	1	±0.1	3.0	ON	Supply for RTC domain
	VDDVIO	1.8-3.3	100	±0.2	3.0	OFF	Voltage mode for vibrator
	VDDKPLED	1.8-3.3	50	±0.1	3.0	OFF	Voltage mode for KPLED
	VDDWIFIPA	1.8-3.3	500	±0.5	3.3	OFF	WIFI Power Amplifier (PA) supply
	VDD18_DCXO	1.8-3.3	50	±0.1	1.8	ON	DCXO power supply
	VDDUSB33	1.8-3.3	100	±0.1	3.3	ON	USB IP (Internal) power supply

UMP510G5 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

UMP510G5 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
	VDDCAMMOT	1.8-3.3	400	3	OFF
	VDD18_DCXO	1.8-3.3	50	1.8	ON
	VDDEMMCCORE	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
	AVDD12	1.0-1.25	150	1.2	ON
GEN0	AVDD18	1.2-1.8	200	1.8	ON
	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

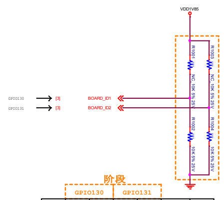
UMS9230	T606	不需要外部DCDC供电
UMS9230H	T612	VDD_CPU1使用PMIC DCDC_GPU供电
UMS9230T	T616	需要外部DCDC供电

Title	09_UMP510G_POWER
DOCUMENT NO.	Design Name = LUA9230-3
DEPARTMENT	DEPARTMENT
DESIGNED	DESIGNER
Date	Friday, April 07, 2023

Board_ID

BB 部分

试产阶段ID-阶段

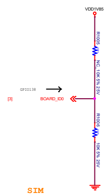


阶段

	R1001	R1002	R1003	R1004	GPIO130	GPIO131
EVB&EVT	NC	10K	NC	10K	0	0
DVT1	NC	10K	10K	NC	0	1
DVT2	10K	NC	NC	10K	1	0
PVT	10K	NC	10K	NC	1	1

*相对上一个阶段需要变更标红

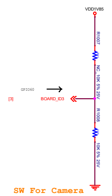
SIM ID-单/双卡



SIM

	R1005	R1006	GPIO138	
	NC	10K	0	Two SIM Card
	10K	NC	1	One SIM Card

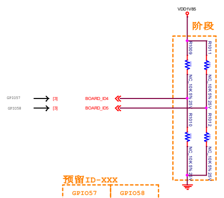
Camera ID-是否印度配置



SW For Camera

	R1007	R1008	GPIO114	Camera
SW	NC	10K	0	No India
SW	10K	NC	1	India

预留ID-XXX

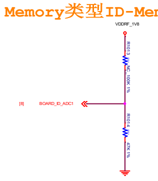


预留ID-XXX

	R1009	R1010	R1011	R1012	GPIO130	GPIO131
TBD	NC	10K	NC	10K	0	0
TBD	NC	10K	10K	NC	0	1
TBD	10K	NC	NC	10K	1	0
TBD	10K	NC	10K	NC	1	1

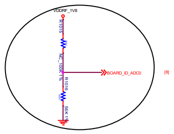
*相对上一个阶段需要变更标红

Memory类型ID-Memory



BOARD_ID_ADC1	R1014	Memory
	56K+/-1%	LPDDR4x eMCP
	47K+/-1%	LPDDR4x uMCP
	39K+/-1%	Discrete LPDDR4x + emmc
	30K+/-1%	Discrete LPDDR4x + UFS2
	24K+/-1%	Discrete LPDDR4x + UFS3

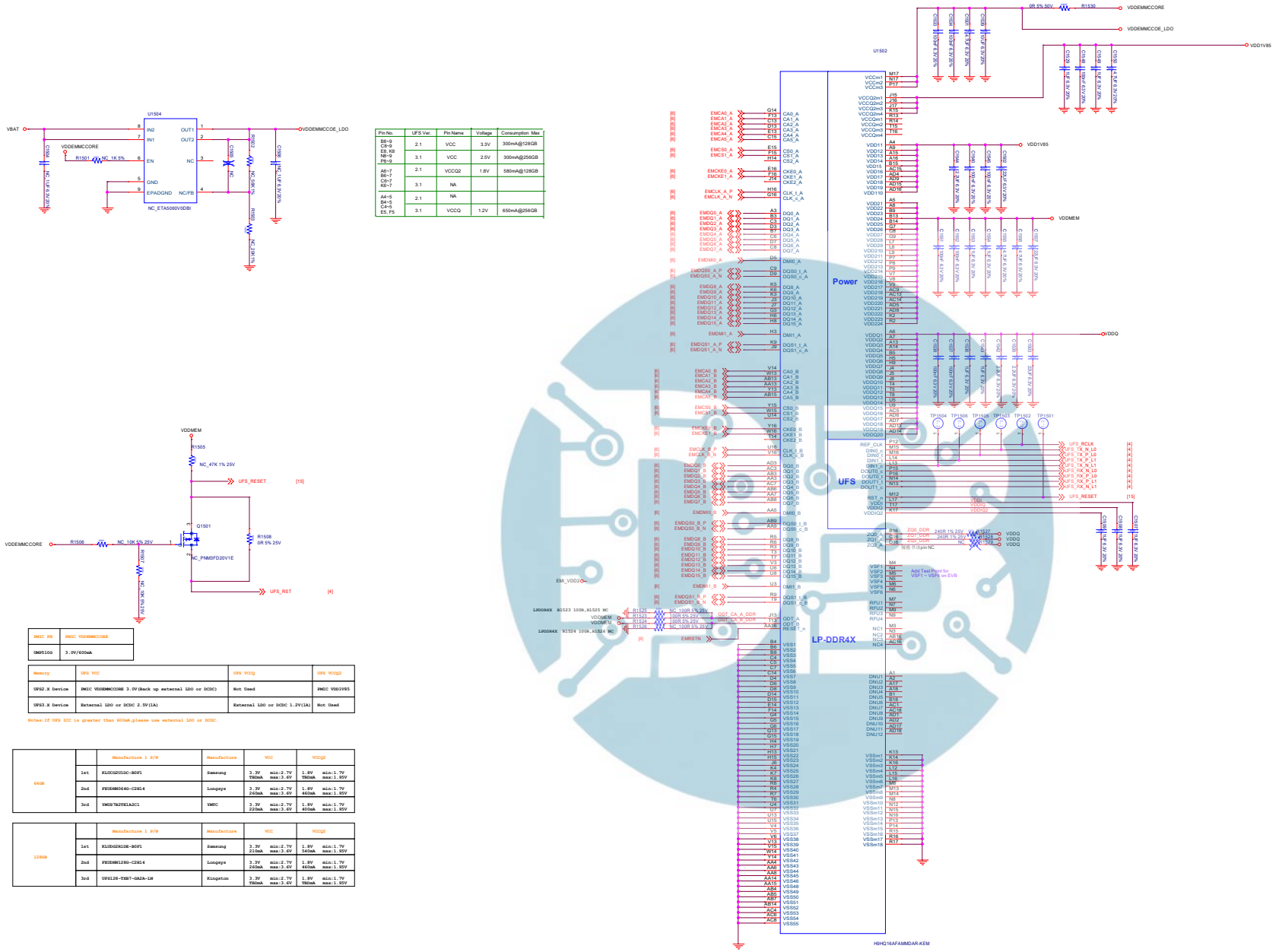
RF 部分



射频PA区分

BOARD_ID_ADC0	R1016	项目名称	RF SKU	BOM配置	频段	
	56K+/-1%	M201	SKU2	A系列	LA+BR	
	47K+/-1%		SKU4	C系列 M系列	AP/MEA AP/MEA+NFC	
	39K+/-1%		SKU3	G系列	EU/IN+NFC	G系列-欧洲
	30K+/-1%		SKU6	K系列	EU+IN	K系列-印度
	56K+/-1%	M202	SKU1	A系列	LA+BR	
	24K+/-1%	M203	SKU5	xxx系列	XXX	

Title	10.Board_ID	REV:	V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size	E
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
Date:	Friday, April 07, 2023	Sheet	10 of 99



Pin No.	UFS Ver.	Pin Name	Voltage	Consumption Max
B8~9 C8~9 E8, K8 N8~9 P8~9	2.1	VCC	3.3V	300mA@128GB
	3.1	VCC	2.5V	300mA@256GB
A6~7 B6~7 C6~7 K6~7	2.1	VCCQ2	1.8V	580mA@128GB
	3.1	NA		
A4~5 B4~5 C4~5 E5, F5	2.1	NA		
	3.1	VCCQ	1.2V	650mA@256GB

PMIC PN	PMIC VDDEMMCCORE
SM9510G	3.0V/600mA

Memory	UFS VCC	UFS VCCQ	UFS VCCQ2
UFS2.X Device	PMIC VDDEMMCCORE 3.0V(Back up external LDO or DCDC)	Not Used	PMIC VDD1V85
UFS3.X Device	External LDO or DCDC 2.5V(1A)	External LDO or DCDC 1.2V(1A)	Not Used

Notes: If UFS ICC is greater than 600mA, please use external LDO or DCDC.

		Manufacture 1 P/N	Manufacture	VCC	VCCQ2
64GB	1st	KLUCG2Q1DC-B0F1	Samsung	3.3V min:2.7V 750mA max:3.6V	1.8V min:1.7V 750mA max:1.95V
	2nd	FEUDN8064G-C2N14	Longsys	3.3V min:2.7V 260mA max:3.6V	1.8V min:1.7V 460mA max:1.95V
	3rd	YMG9T8Y2E1A2C1	YMTC	3.3V min:2.7V 220mA max:3.6V	1.8V min:1.7V 400mA max:1.95V

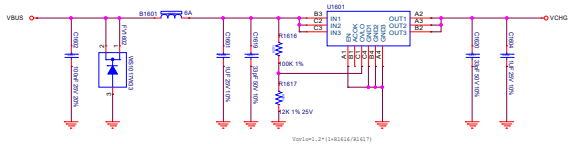
		Manufacture 1 P/N	Manufacture	VCC	VCCQ2
128GB	1st	KLUDG2K1DE-B0F1	Samsung	3.3V min:2.7V 210mA max:3.6V	1.8V min:1.7V 540mA max:1.95V
	2nd	FEUDN8128G-C2N14	Longsys	3.3V min:2.7V 260mA max:3.6V	1.8V min:1.7V 460mA max:1.95V
	3rd	UFS128-TX87-GAZA-LN	Kingston	3.3V min:2.7V 750mA max:3.6V	1.8V min:1.7V 750mA max:1.95V

Title	15_UMCP_LPDDR4X
DOCUMENT NO.:	Design Name = LLDM212B3-3
DEPARTMENT:	DEPARTMENT
DESIGNER:	DESIGNER
Date:	Friday, April 07, 2023
Sheet	15 of 99
REV:	V0.1
Size	D

龙 飒 科 技 LONGCHEER

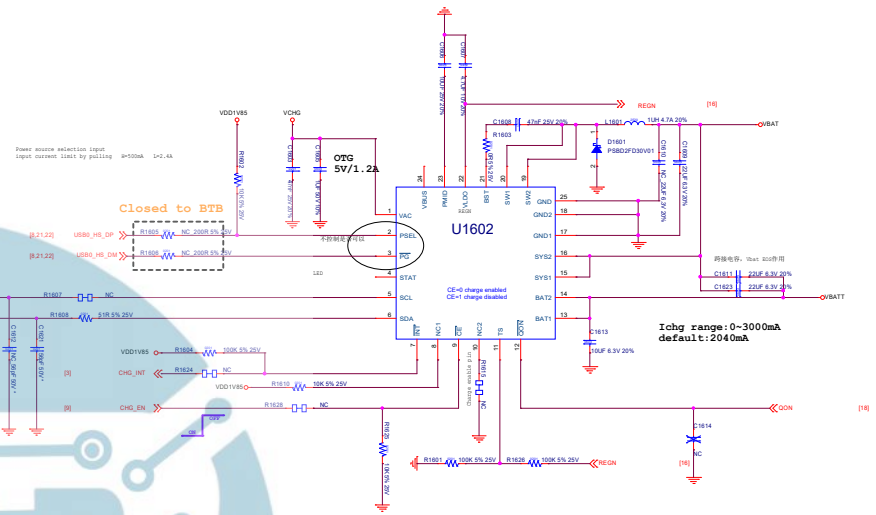
OVP

U1601		
	Manufacture 1 P/N	Manufacture
1st	AW32905	AWINIC
2nd	SGM40666ASYG/TR	SGMICRO
3rd		

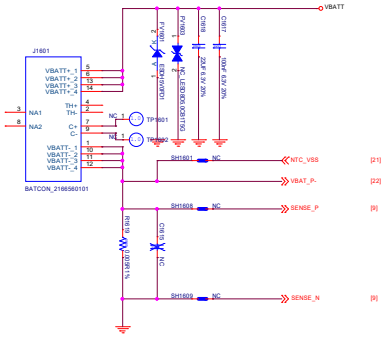


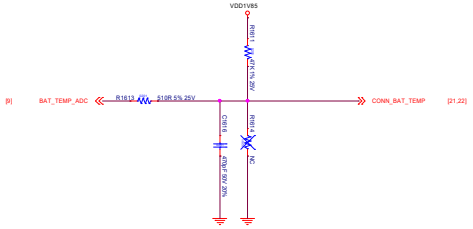
Switching Charger

U1602		I2C	
	Manufacture 1 P/N	Manufacture	W	R
1st	SGM41543DYTQF24G/TR	SGM	0X16	0X17
2nd	UPM6920	Unisemi	0XD4	0XD5
3rd	TBD	TBD		



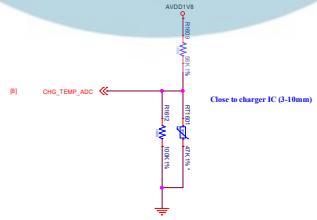
BATTERY CONNECTOR



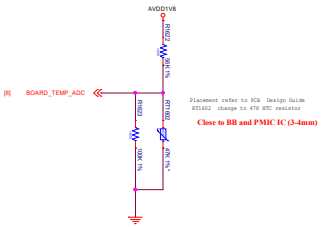


NTC

Switching charger:can reserved
Linear charger:must add



BOARD NTC

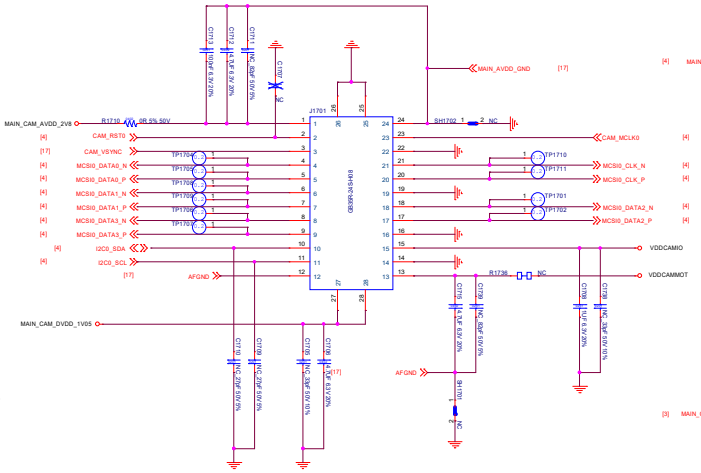


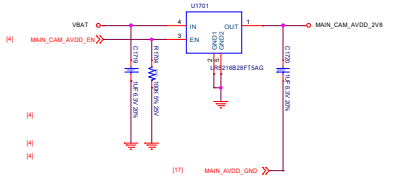
Title	16_PERI_CHARGER_BAT CONN V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3 Size D
DEPARTMENT:	DEPARTMENT DESIGNER: DESIGNER
Date:	Friday, April 07, 2023 Sheet 16 of 99

龙旗科技 LONGCHEER

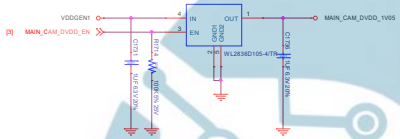
REAR CAMERA:50M

	AVDD	DVDD	IOVDD	AFVDD	I2C
Typ	2.8V 49.2mA	1.05V 167mA	1.8V 2mA	2.8V TBD	0XAC(W) 0XAD(R)
Min	2.7V	0.95V	1.7V	TBD	
Max	2.9V 59.04mA	1.15V 217mA	1.9V 4mA	TBD	





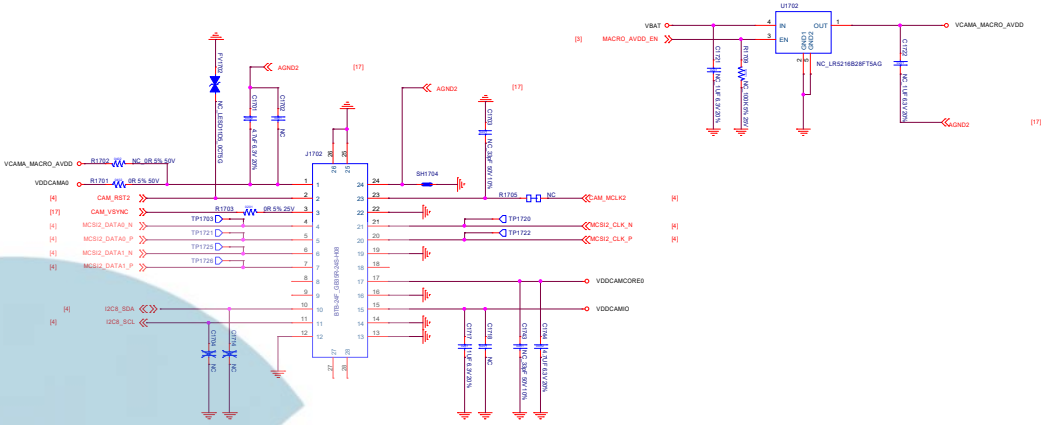
For 50M
1.05V 200.54mA(Max 260.7)



Macro CAMERA:2M
Wide CAMERA:5M

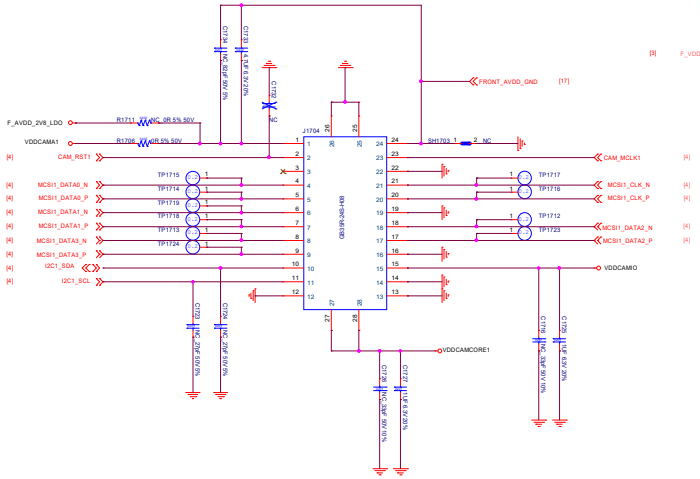
2M Macro Camera	AVDD	DVDD	IOVDD	AFVDD	I2C
Typ	2.8V 13.5mA	NA	1.8V 18.6mA	NC	2M 0X5C(W) 0X6D(R)
Min	2.7V	NA	1.7V	NC	
Max	2.9V 19mA	NA	1.9V 27mA	NC	

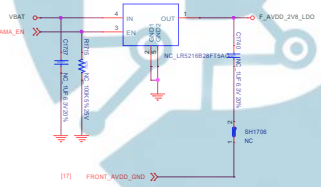
5M Wide Camera	AVDD	DVDD	IOVDD	AFVDD	I2C
Typ	2.8V 30mA	1.2V(W) 60mA	1.8V 0.1mA	NC	5M 0X78(W) 0X79(R)
Min	2.6V	1.14V	1.7V	NC	
Max	3.0V 35mA	1.3V 70mA	1.9V 0.2mA	NC	



FRONT CAMERA:8M

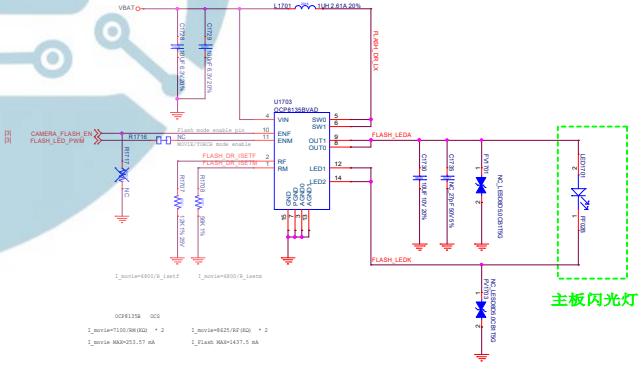
	AVDD	DVDD	IOVDD	AFVDD	I2C
Typ	2.8V TBD	1.2V TBD	1.8V TBD	NC	0X5A(W) 0X5B(R)
Min	2.7V	1.14V	1.7V	NC	
Max	2.9V TBD	1.26V TBD	1.9V TBD	NC	





FLASH LED

U1703	Manufacture 1 P/N	Manufacture
1st	OCP8135BVAD	OCS
2nd	SGM3785YTDF14G/TR	SGMICRO

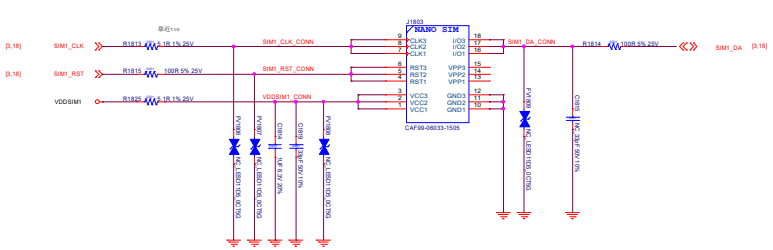


Connect to main ground plane by via directly

Title	17_CAMERA	SIZE: V0.1	
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size: D	
DEPARTMENT:	DEPARTMENT	DESIGNER: DESIGNER	
龙旗科技 LONGCHEER			
Date:	Friday, April 07, 2023	Sheet 17 of 99	

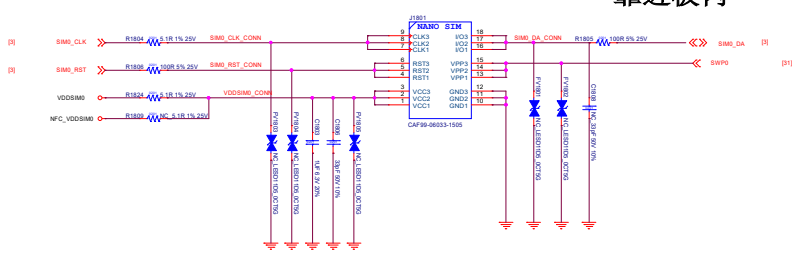
SIM1

靠近板外

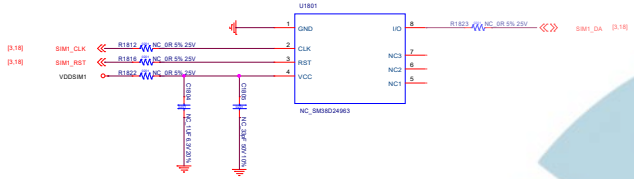


SIM0

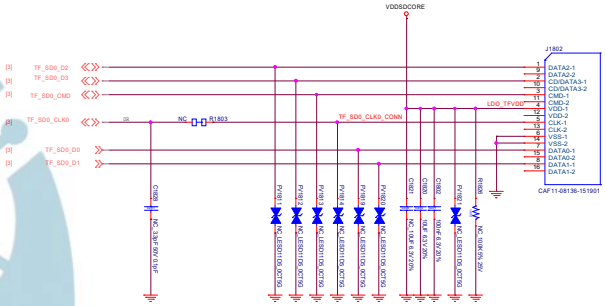
靠近板内



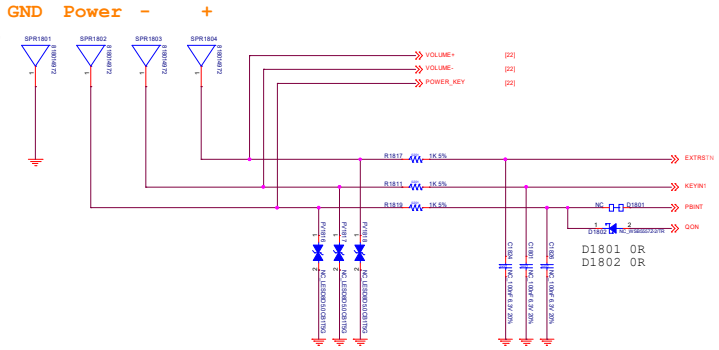
eSIM



SD CARD



Power Key / Key Pad

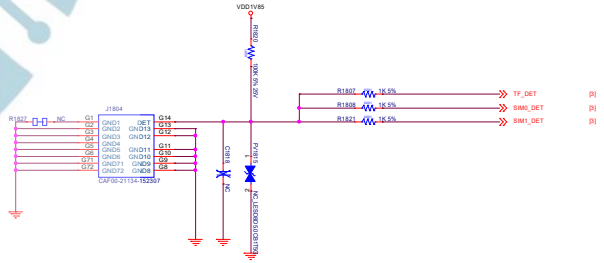


Volume+ Key;Location:Up

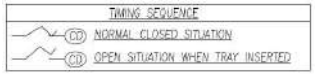
Volume- Key;Location:Down

POWER KEY

Detect



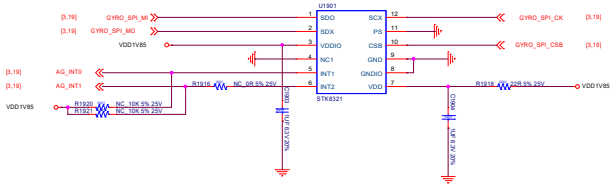
Card IN	1
Card Out	0



Title	18_SIM&SDCARD_SIDEKEY	REV:	V0.1
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size	D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Friday, April 07, 2023	Sheet	18 of 99

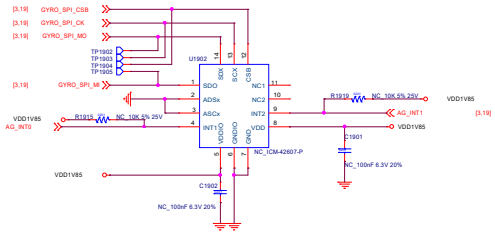
A-Sensor

U1901			
	Manufacture 1 P/N	Manufacture	
1st	STK8321	Sensortek	
2nd	BMA253	BOSCH	
3rd			



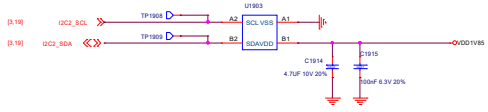
A+G-Sensor

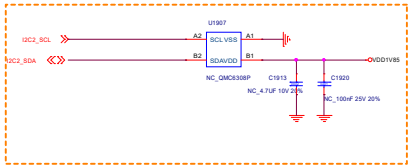
U1902			
	Manufacture 1 P/N	Manufacture	
1st	BMI320	BOSCH	
2nd	ICM-42607-P	TDK	
3rd			



E-compass

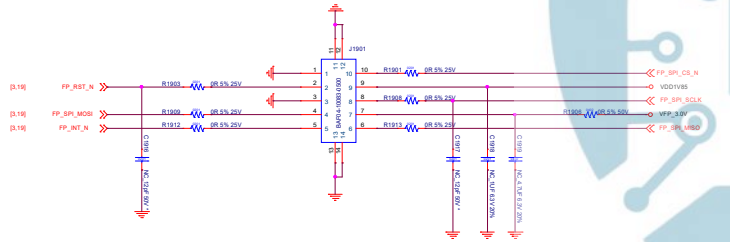
U1903/U1907			I2C	
	Manufacture 1 P/N	Manufacture	W	R
1st	QMC6308P	QST	0X58	0X59
2nd	MMC5603NJL	MEMSIC	0X60	0X61
3rd	NA	NA	NA	NA

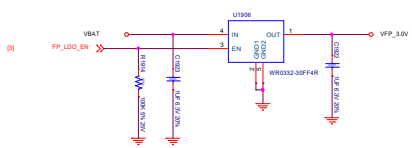


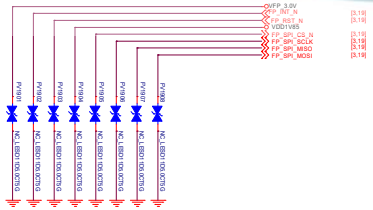


先摆放2个区域，后期根据位置环境选择一个，
先做兼容设计

Finger Print

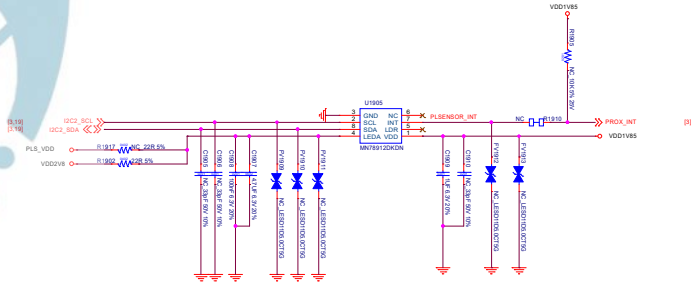


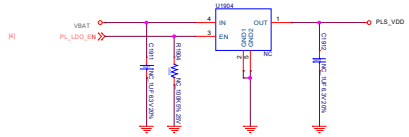




P+L Sensor

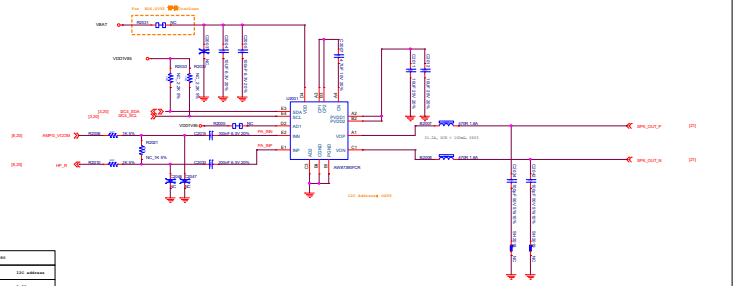
U1905			I2C	
	Manufacture 1 P/N	Manufacture	W	R
1st	MN78912DKDN	EMINENT	0X82	0X83
2nd	NA	NA	NA	NA
3rd	NA	NA	NA	NA



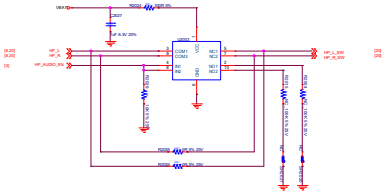


Title	19_SENSOR	SIZE: V0.1	
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size: D	
DEPARTMENT:	DEPARTMENT	DESIGNER: DESIGNER	
龙旗科技 LONGCHEER			
Date: Friday, April 07, 2023		Sheet 19 of 99	

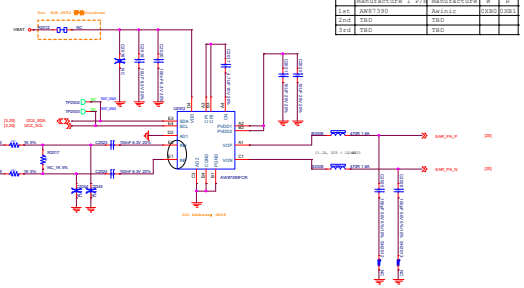
Audio PA For Speaker



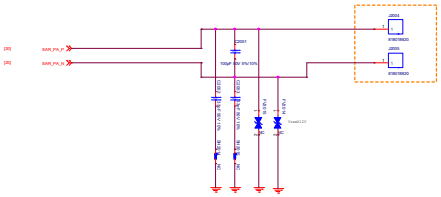
Audio SW



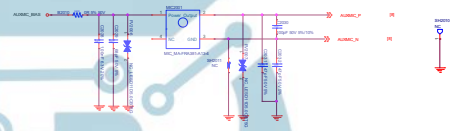
Audio PA For Receiver



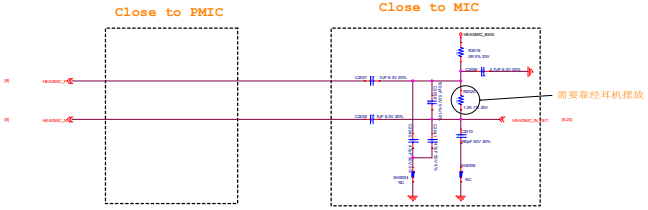
Receiver



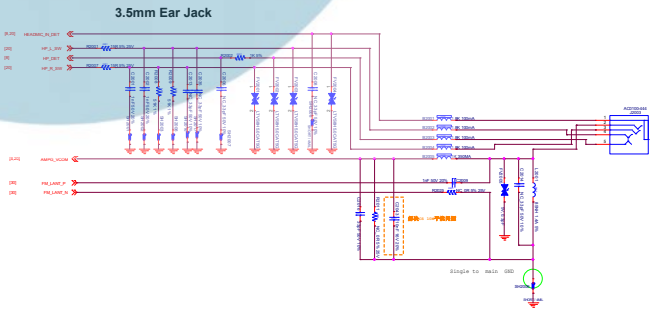
AUX MIC



HEAD MIC

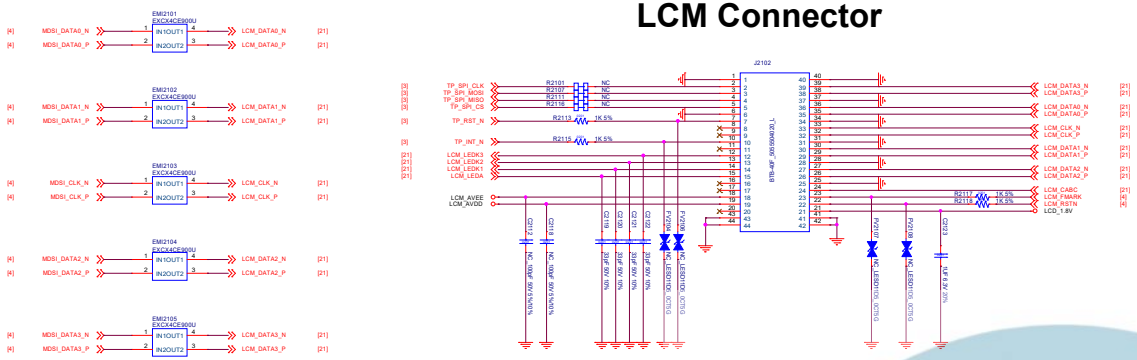


3.5mm Headphone Jack

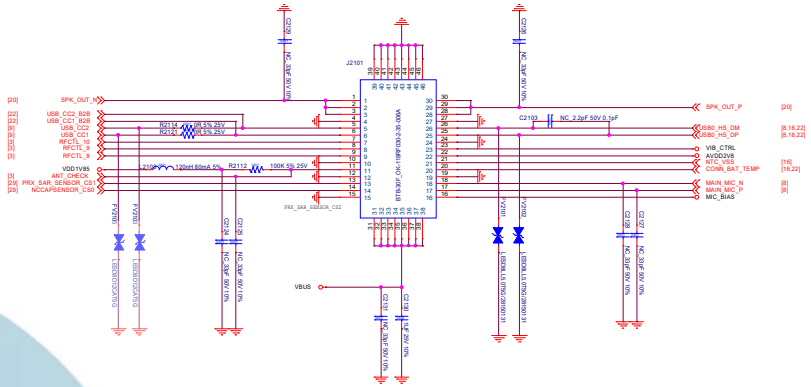


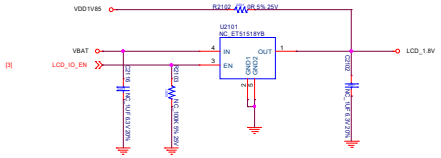
MAIN_LCM_CON

LCM Connector



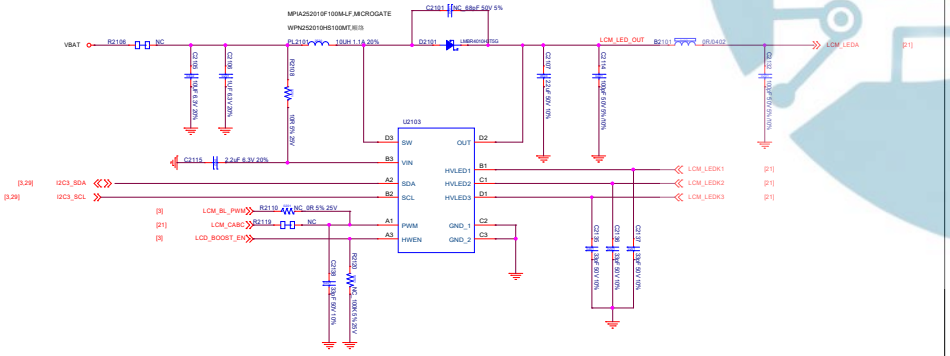
MAIN_SUB_Connector





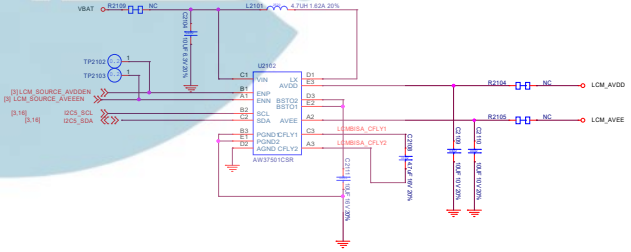
LCM_Backlight

U2103			I2C	
	Manufacture 1 P/N	Manufacture	W	R
1st	AW99703CSR	Awinic	0X6C	0X6D
2nd	KTD3136EUS-TR	Kinetic	0X6C	0X6D
3rd	NA	NA	NA	NA



LCM BIAS

U2102			I2C	
	Manufacture 1 P/N	Manufacture	W	R
1st	AW37501CSR	Awinic	0X7C	0X7D
2nd	OCP2131WPAD-G	OCS	0X7C	0X7D
3rd	NA	NA	NA	NA



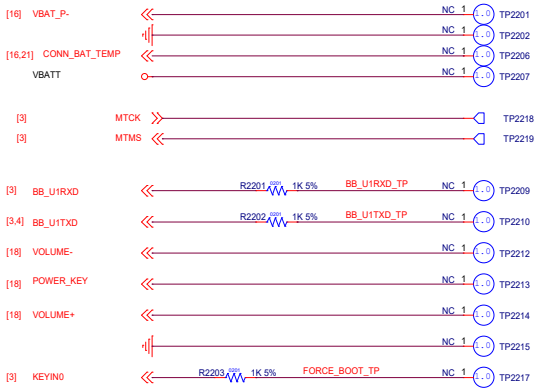
Title	21_SUB-IO_LCM-IF	SIZE: V0.1	
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size: D	
DEPARTMENT:	DEPARTMENT	DESIGNER: DESIGNER	
Date:	Friday, April 07, 2023	Sheet 21 of 99	

龙旗科技 LONGCHEER

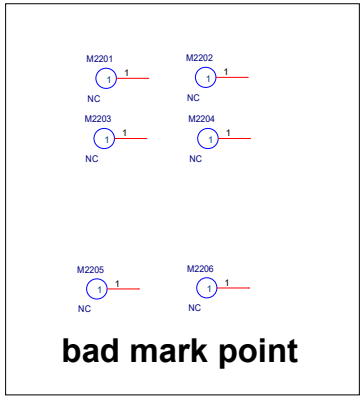
USB TEST POINT

BAT

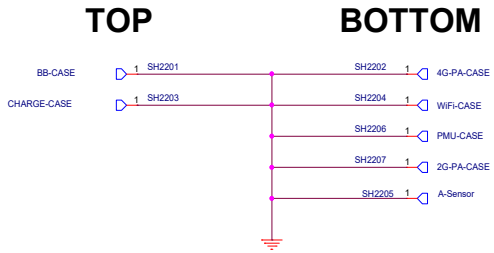
测试点符号不一致



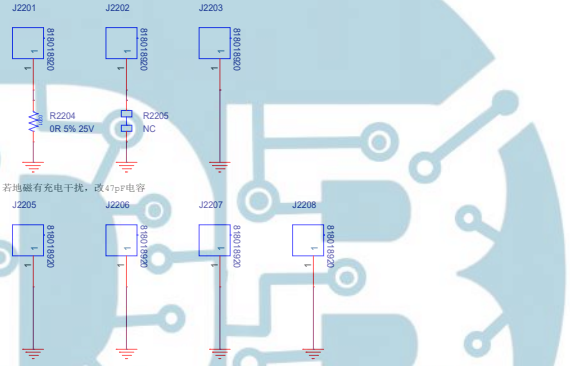
Marks point



Shielding frame



接地弹片



Title	22_Test Point_Shielding	REV: V0.1	
DOCUMENT NO.:	Design Name = LLDM212B3-3	Size	C
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Friday, April 07, 2023	Sheet	22 of 99

Modify List:

1:SAR Sense I2C Port change:I2C5--->I2C3.Reference Design remand

2:TXM TRX Port change:TRX4/6, TRX8/9

3:NFC Transciver change from NXP PN557 to SAMS S3NRN4V

4: LTE MB Tx PA out port adjust 1/3/66 for good routing

5:去除2908/2907

6:WCN VDDFU接地

7:去除R3001,GPS LNA R3018供电由VDD2.8换VDD SIM2

8:RFCTL0/1/2原本连接到TUNNERU2901变更为连接到U2818/U2819/U2802

9:网络名RFCTL17/18名字更换为RFCTL19/20连接到U2901

10:U2607/U2818/U2819/U2802的供电从VDD2V8换成VDDLDO1

11:U2804/U2817供电由VDDSIM2换成AVDD2V8

12:新增C3052

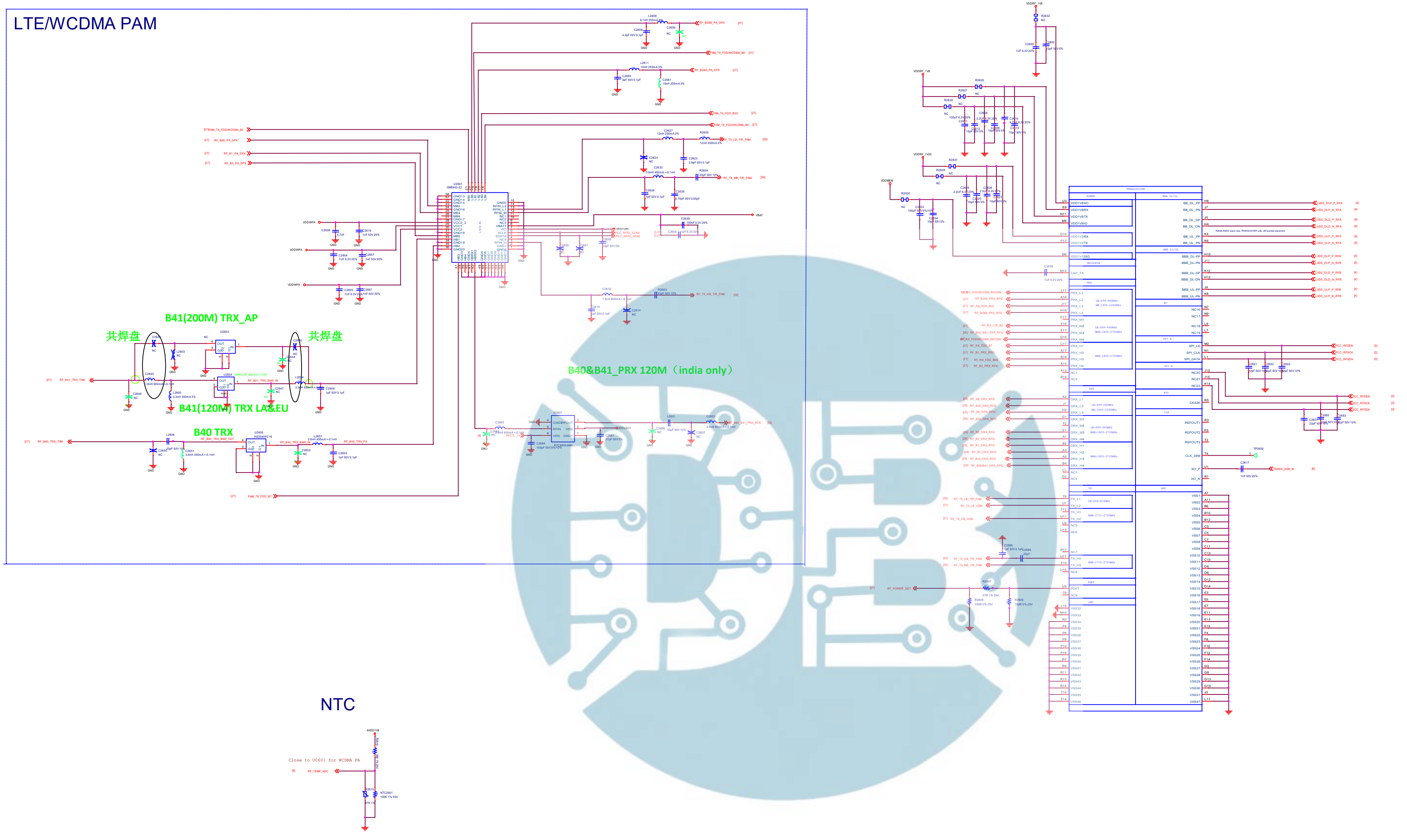
13:RF_B1_TRX_TXM RF_B66_TRX_TXM端口调换

14:U2818控制网络改成RFCTL_16

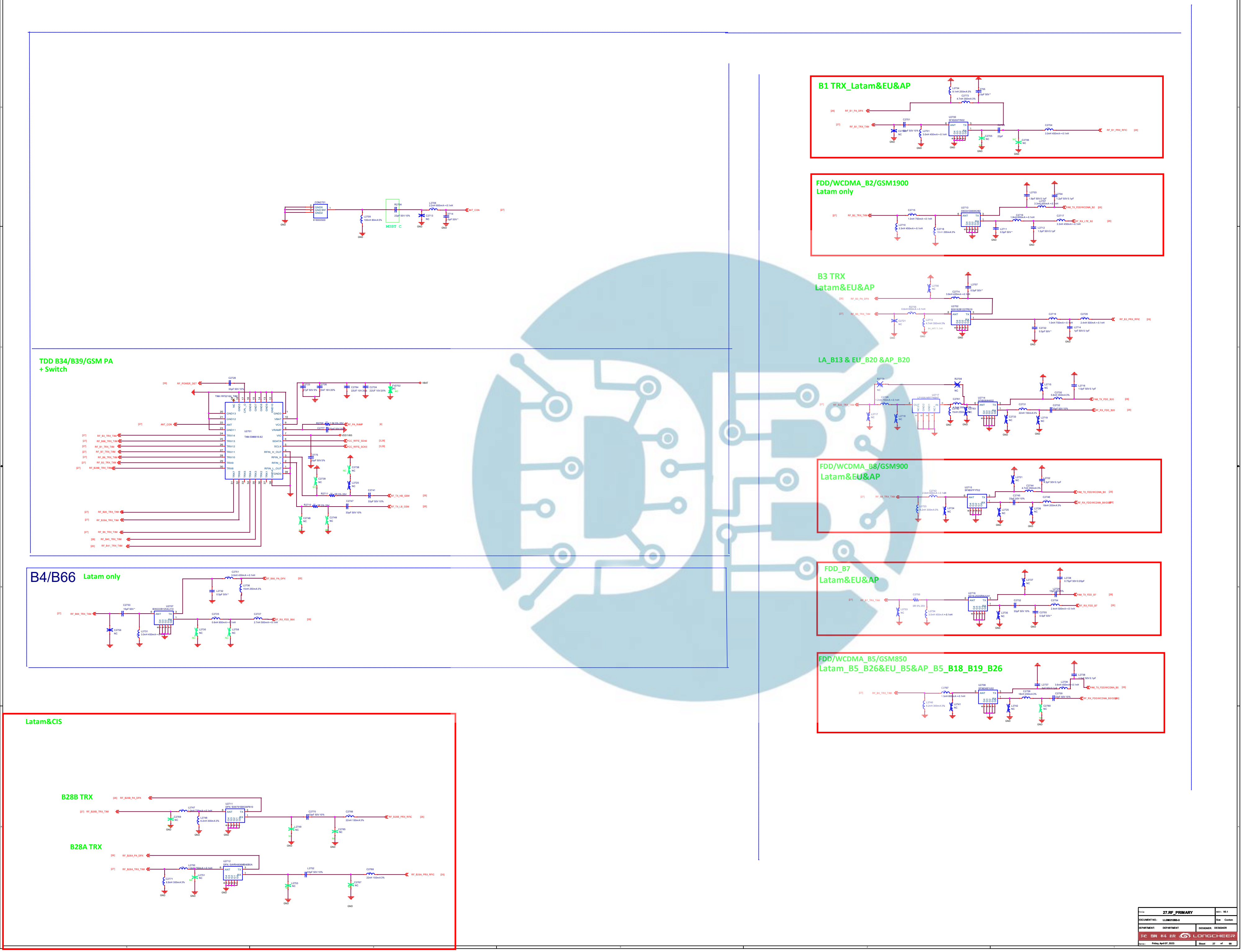
15:+C3053

16:删除物料R1801、R1802

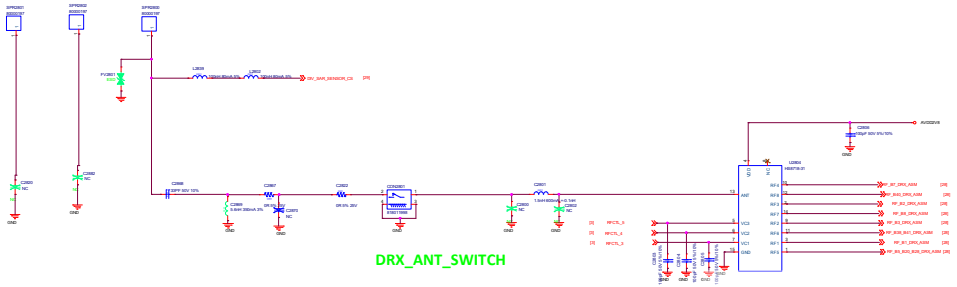
17:调换C3109、C3119至NFC芯片端的网络

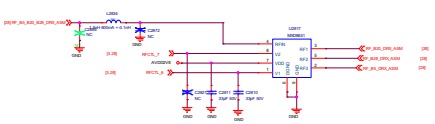


Title	26.RF_CSFB_TRANS	REV:	V0.1
DOCUMENT NO.:	LLDM212B3-3	Size	Custom
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Friday, April 07, 2023	Sheet	26 of 99



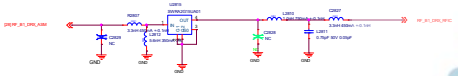
B1 TRX_Latam&EU&AP
FDD/WCDMA_B2/GSM1900
Latam only
B3 TRX
Latam&EU&AP
LA_B13 & EU_B20 &AP_B20
TDD B34/B39/GSM PA
+ Switch
FDD/WCDMA_B8/GSM900
Latam&EU&AP
B4/B66
Latam only
FDD_B7
Latam&EU&AP
FDD/WCDMA_B5/GSM850
Latam_B5_B26&EU_B5&AP_B5_B18_B19_B26
Latam&CIS
B28B TRX
B28A TRX
27.RF_PRIMARY
LONGCHEER





B1&B84/B66 DRX Latam

B1 DRX EU&AP



B5 DRX

Latam_B5/B26&EU_B5 &AP_B5/B18/B19/B26

B3 DRX

Latam&EU&AP

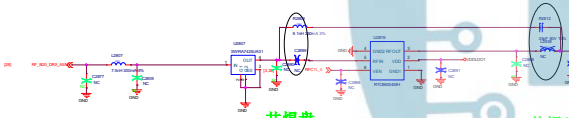
B28 DRX

Latam&AP

B20 DRX SAW

B20 DRX_EU&AP

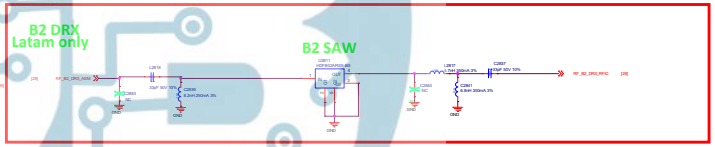
B13 DRX _Latam



B2 DRX

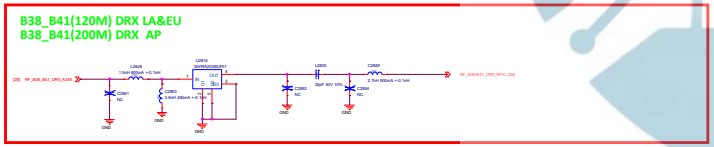
Latam only

B2 SAW



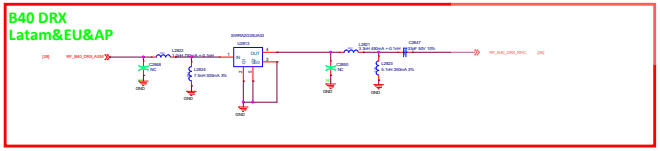
B38_B41(120M) DRX LA&EU

B38_B41(200M) DRX AP



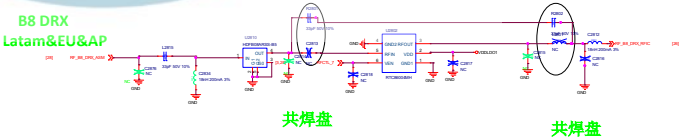
B40 DRX

Latam&EU&AP



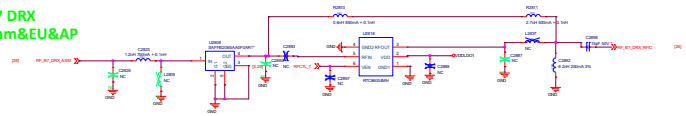
B8 DRX

Latam&EU&AP



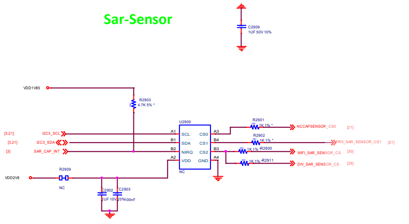
B7 DRX

Latam&EU&AP

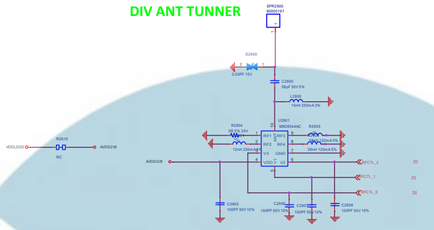


Title	28.RF_DIV	REV.	V0.1
DOCUMENT NO.	LL0821BB3-3	Size	B
DEPARTMENT	DEPARTMENT	DESIGNED	DESIGNER
Date	Friday, April 07, 2023	Sheet	28 of 88

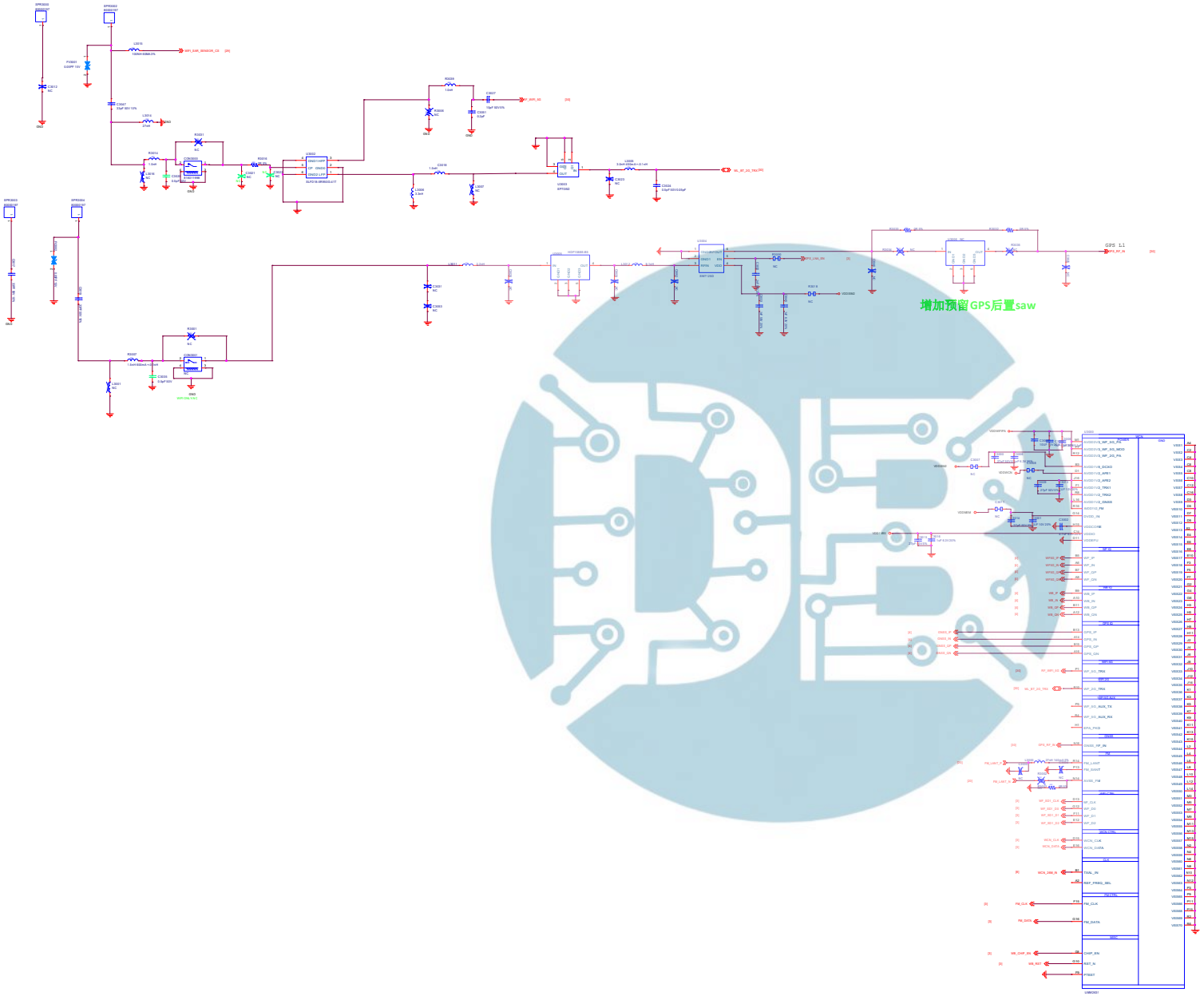
Sar-Sensor

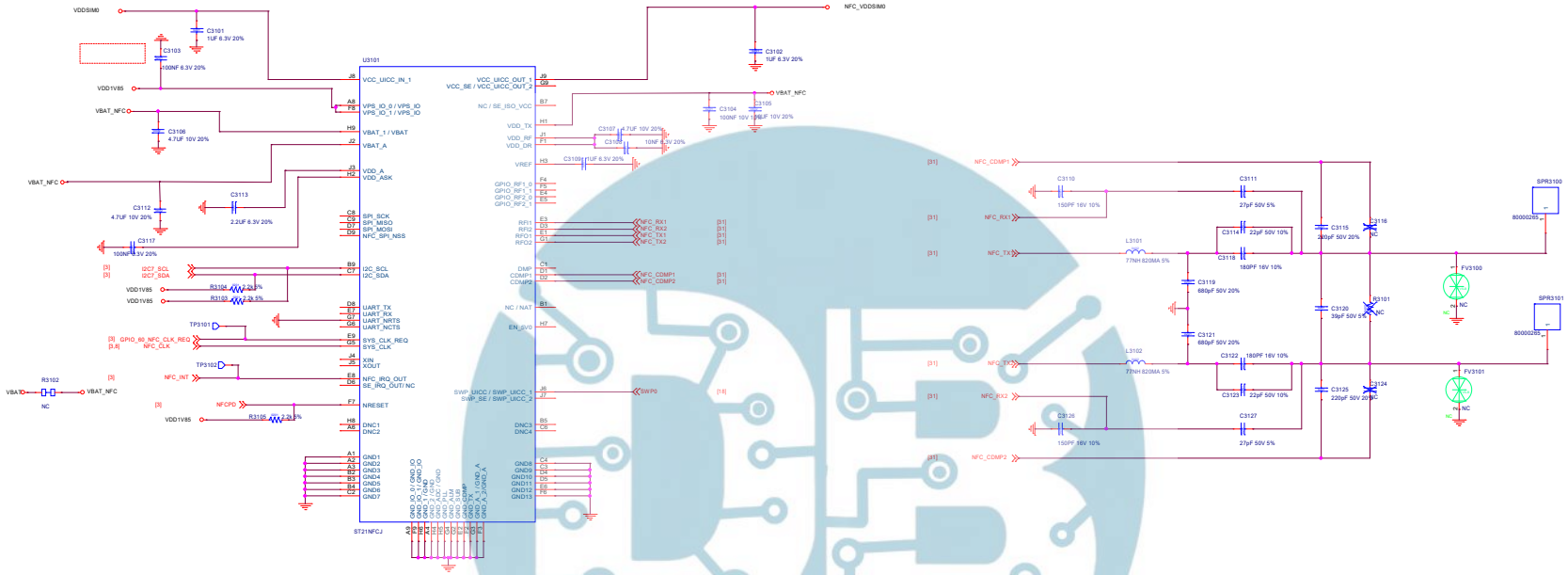


DIV ANT TUNNER



Title	29.Sar sensor_DIV_Tuner	REV:	V0.1
DOCUMENT NO.:	LLDM212B3-3	Size	Custom
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Friday, April 07, 2023	Sheet	29 of 99


增加预留GPS后置saw



Title	31.NFC		REV: V0.1
DOCUMENT NO.:	LLDM212B3-3		Size D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙 旗 科 技 LONGCHEER			
Date:	Friday, April 07, 2023	Sheet	31 of 99