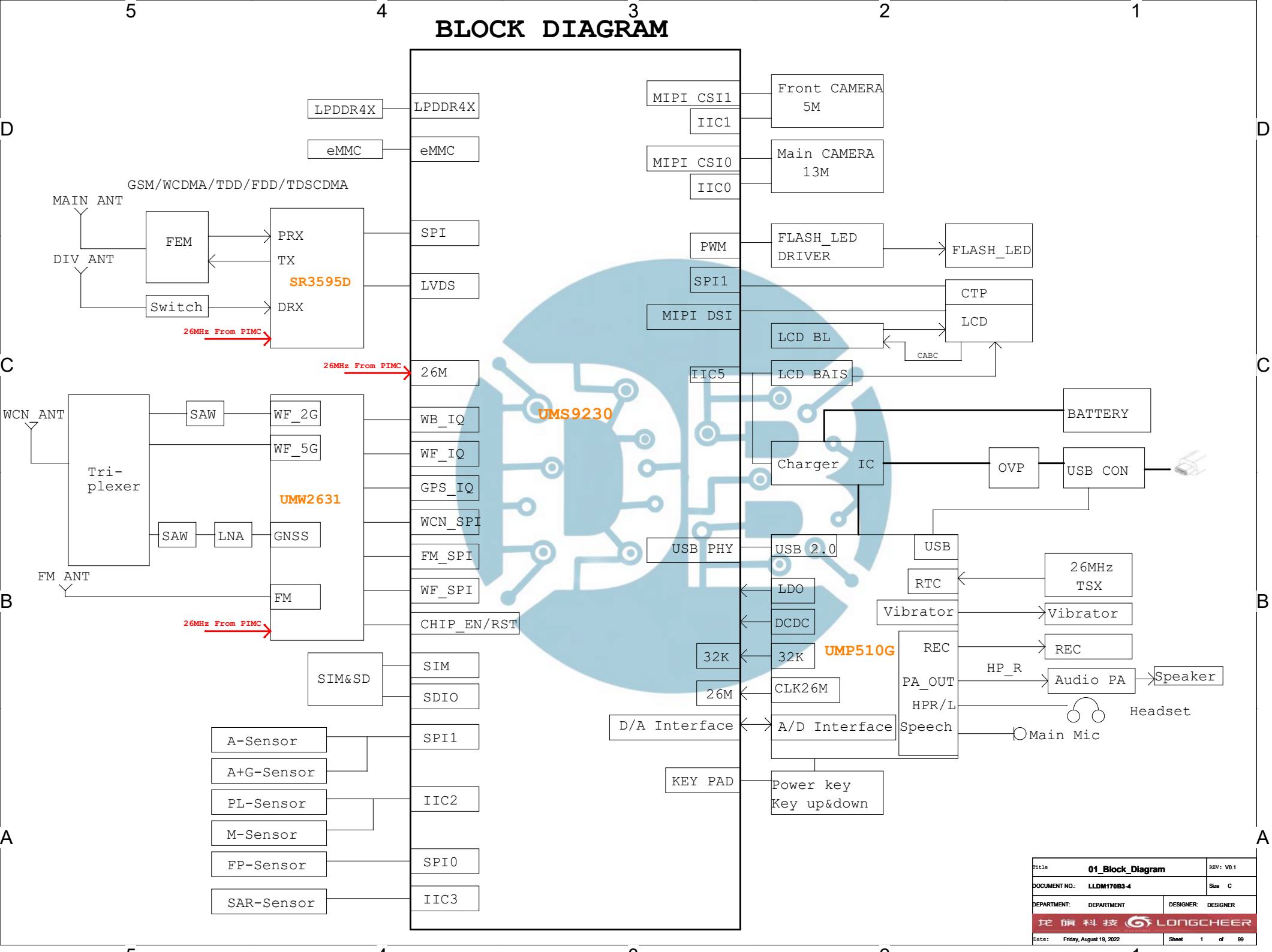
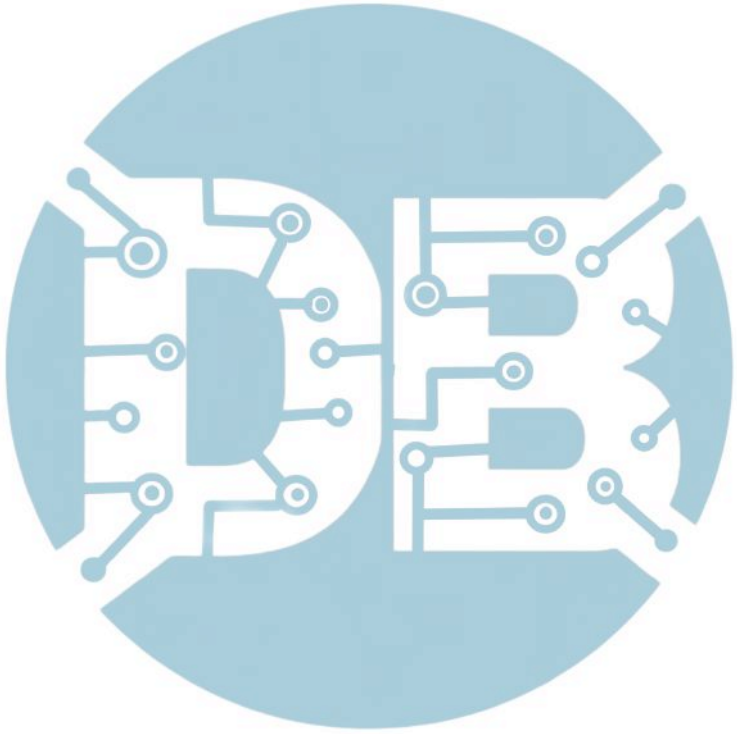
BLOCK DIAGRAM

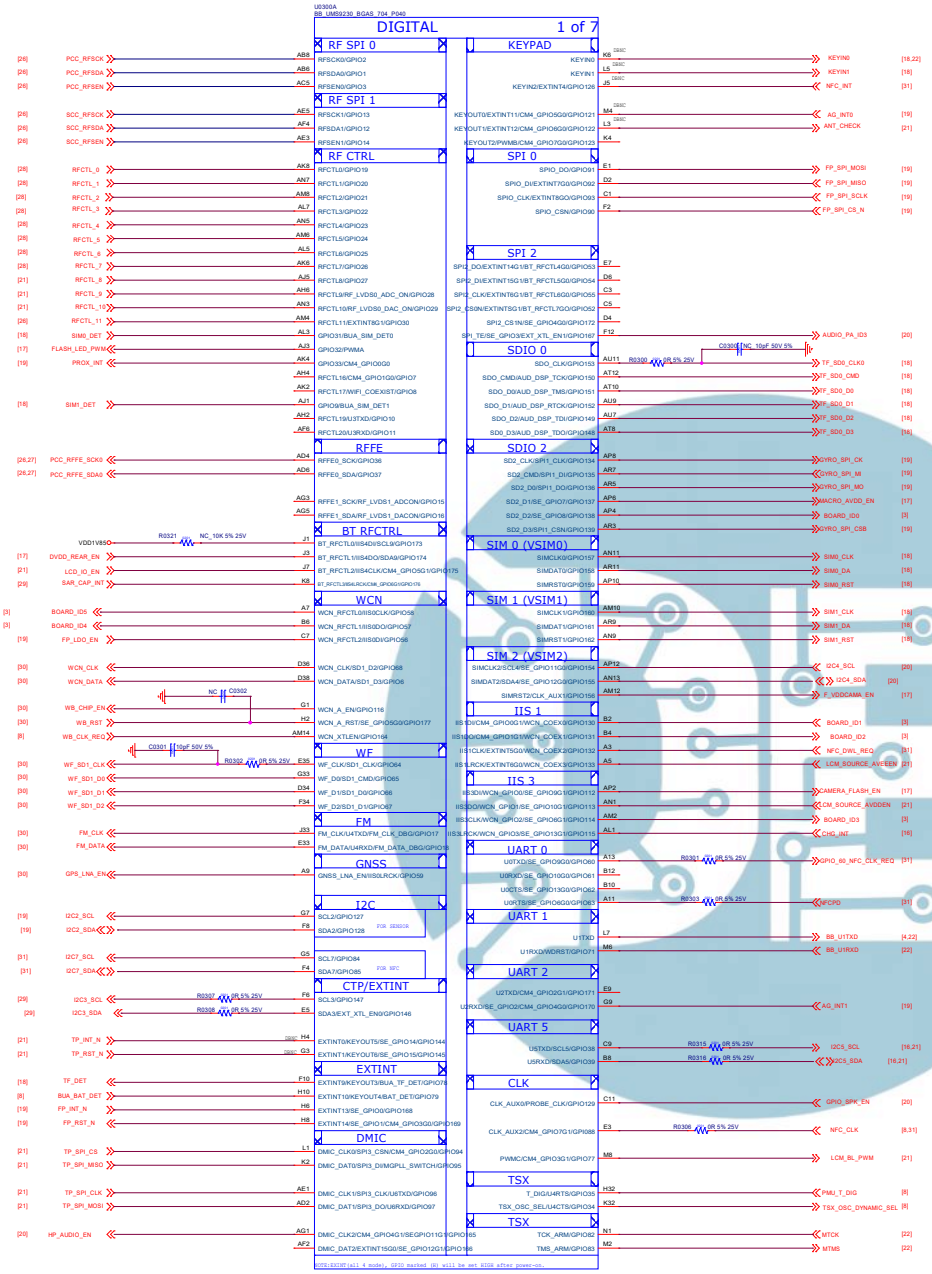


Title	01_Block_Diagram		REV: V0.1
DOCUMENT NO.:	LLDM170B3-4		Size C
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Friday, August 19, 2022	Sheet	1 of 99

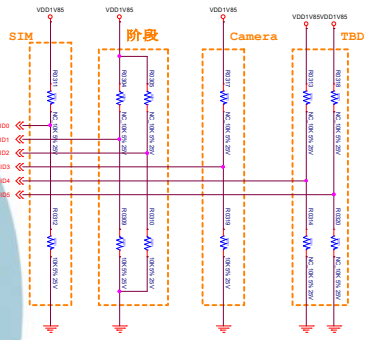
REV	Description
REV0.1	Initial release



Title	02_BB_change list	REV: V0.1
DOCUMENT NO.:	LLDM170B3-4	Size B
DEPARTMENT: DEPARTMENT		DESIGNER: DESIGNER
龙旗科技 LONGCHEER		
Date: Friday, August 19, 2022		Sheet 2 of 99



Board_ID



阶段

	GPIO130	GPIO131	
	R0304	R0309	R0305	R0310	GPIO130	GPIO131
Pre_EVB	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

TBD

	GPIO57	GPIO58				
	R0313	R0314	R0318	R0320	GPIO57	GPIO58
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

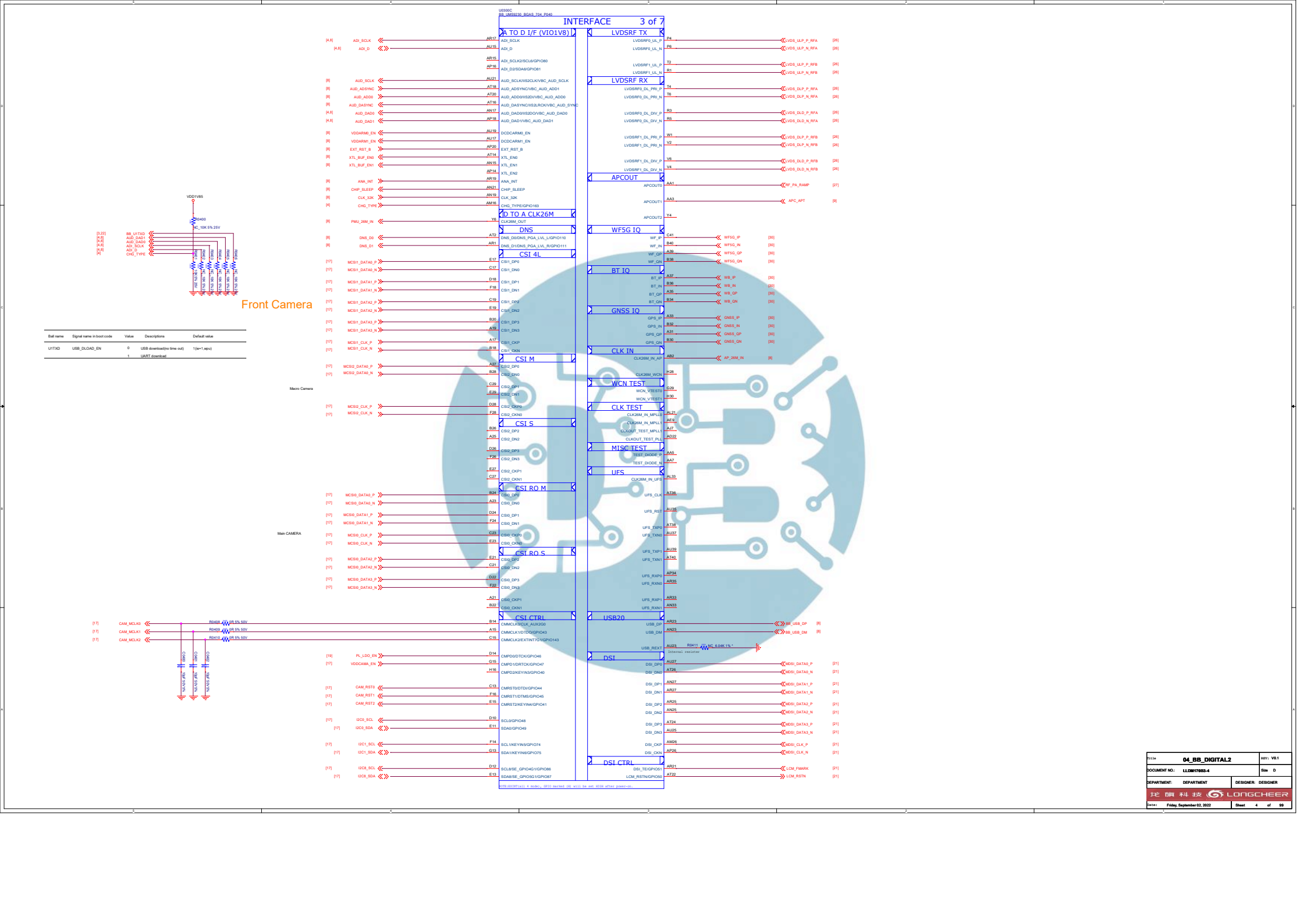
SIM

	R0311	R0312	GPIO138	TBD
	NC	10K	0	Two SIM Card
	10K	NC	1	One SIM Card

SW For Camera

	R0317	R0319	GPIO114	Camera
SW	NC	10K	0	No India
SW	10K	NC	1	India

Title	03_BB_DIGITAL1	REV: V0.1	
DOCUMENT NO.:	LLDM170B3-4	Size: D	
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙 旗 科 技 LONGCHEER			
Date:	Friday, October 21, 2022	Sheet 3 of 99	


U0300C
BB_UMS9230_BGA5_704_P040
INTERFACE 3 of 7
A TO D I/F (VIO1V8)
ADI_SCLK
ADI_D
ADI_SCLK2/SCL6/GPIO80
ADI_D2/SDA6/GPIO81
AUD_SCLK/IIS2CLK/VBC_AUD_SCLK
AUD_ADSYNC/VBC_AUD_ADD1
AUD_ADD0/IIS2DI/VBC_AUD_ADD0
AUD_DASYNC/IIS2LRCK/VBC_AUD_SYNC
AUD_DAD0/IIS2DO/VBC_AUD_DAD0
AUD_DAD1/VBC_AUD_DAD1
DCDCARM0_EN
DCDCARM1_EN
EXT_RST_B
XTL_EN0
XTL_EN1
XTL_EN2
ANA_INT
CHIP_SLEEP
CLK_32K
CHG_TYPE/GPIO163
D TO A CLK26M
CLK26M_OUT
DNS
DNS_D0/DNS_PGA_LVL_L/GPIO110
DNS_D1/DNS_PGA_LVL_R/GPIO111
CSI 4L
CSI1_DP0
CSI1_DN0
CSI1_DP1
CSI1_DN1
CSI1_DP2
CSI1_DN2
CSI1_DP3
CSI1_DN3
CSI1_CKP
CSI1_CKN
CSI M
CSI2_DP0
CSI2_DN0
CSI2_DP1
CSI2_DN1
CSI2_CKP0
CSI2_CKN0
CSI S
CSI2_DP2
CSI2_DN2
CSI2_DP3
CSI2_DN3
CSI2_CKP1
CSI2_CKN1
CSI RO M
CSI0_DP0
CSI0_DN0
CSI0_DP1
CSI0_DN1
CSI0_CKP0
CSI0_CKN0
CSI RO S
CSI0_DP2
CSI0_DN2
CSI0_DP3
CSI0_DN3
CSI0_CKP1
CSI0_CKN1
CSI_CTRL
CMMCLK0/CLK_AUX2G0
CMMCLK1/DTDO/GPIO43
CMMCLK2/EXTINT7/G1/GPIO143
CMPD0/DTCK/GPIO46
CMPD1/DRTCK/GPIO47
CMPD2/KEYIN3/GPIO40
CMRST0/DTDI/GPIO44
CMRST1/DTMS/GPIO45
CMRST2/KEYIN4/GPIO41
SCL0/GPIO48
SDA0/GPIO49
SCL1/KEYIN5/GPIO74
SDA1/KEYIN6/GPIO75
SCL8/SE_GPIO4G1/GPIO86
SDA8/SE_GPIO5G1/GPIO87
LVDSRF TX
LVDSRF0_UL_P
LVDSRF0_UL_N
LVDSRF1_UL_P
LVDSRF1_UL_N
LVDSRF RX
LVDSRF0_DL_PRI_P
LVDSRF0_DL_PRI_N
LVDSRF0_DL_DIV_P
LVDSRF0_DL_DIV_N
LVDSRF1_DL_PRI_P
LVDSRF1_DL_PRI_N
LVDSRF1_DL_DIV_P
LVDSRF1_DL_DIV_N
APCOUT
APCOUT0
APCOUT1
APCOUT2
WF5G IQ
WF_IP
WF_IN
WF_QP
WF_QN
BT IQ
BT_IP
BT_IN
BT_QP
BT_QN
GNSS IQ
GPS_IP
GPS_IN
GPS_QP
GPS_QN
CLK IN
CLK26M_IN_AP
CLK26M_WCN
WCN TEST
WCN_VTEST0
WCN_VTEST1
CLK TEST
CLK26M_IN_MPLL0
CLK26M_IN_MPLL1
CLKOUT_TEST_MPLL1
CLKOUT_TEST_PLL
MISC TEST
TEST_DIODE_P
TEST_DIODE_N
UFS
CLK26M_IN_UFS
UFS_CLK
UFS_RST
UFS_TXP0
UFS_TXN0
UFS_TXP1
UFS_TXN1
UFS_RXP0
UFS_RXN0
UFS_RXP1
UFS_RXN1
USB20
USB_DP
USB_DM
USB_REXT
DSI
DSI_DP0
DSI_DN0
DSI_DP1
DSI_DN1
DSI_DP2
DSI_DN2
DSI_DP3
DSI_DN3
DSI_CKP
DSI_CKN
DSI CTRL
DSI_TE/GPIO51
LCM_RSTN/GPIO50
NOTE:EXINT[all 4 mode], GPIO marked (H) will be set HIGH after power-on.
ADI_SCLK
ADI_D
AUD_SCLK
AUD_ADSYNC
AUD_ADD0
AUD_DASYNC
AUD_DAD0
AUD_DAD1
VDDARM0_EN
VDDARM1_EN
EXT_RST_B
XTL_BUF_EN0
XTL_BUF_EN1
ANA_INT
CHIP_SLEEP
CLK_32K
CHG_TYPE
PMU_26M_IN
DNS_D0
DNS_D1
MCSI1_DATA0_P
MCSI1_DATA0_N
MCSI1_DATA1_P
MCSI1_DATA1_N
MCSI1_DATA2_P
MCSI1_DATA2_N
MCSI1_DATA3_P
MCSI1_DATA3_N
MCSI1_CLK_P
MCSI1_CLK_N
MCSI2_DATA0_P
MCSI2_DATA0_N
MCSI2_CLK_P
MCSI2_CLK_N
MCSI0_DATA0_P
MCSI0_DATA0_N
MCSI0_DATA1_P
MCSI0_DATA1_N
MCSI0_CLK_P
MCSI0_CLK_N
MCSI0_DATA2_P
MCSI0_DATA2_N
MCSI0_DATA3_P
MCSI0_DATA3_N
CAM_MCLK0
CAM_MCLK1
CAM_MCLK2
PL_LDO_EN
VDDCAMA_EN
CAM_RST0
CAM_RST1
CAM_RST2
I2C0_SCL
I2C0_SDA
I2C1_SCL
I2C1_SDA
I2C8_SCL
I2C8_SDA
LVDS_ULP_P_RFA
LVDS_ULP_N_RFA
LVDS_ULP_P_RFB
LVDS_ULP_N_RFB
LVDS_DLP_P_RFA
LVDS_DLP_N_RFA
LVDS_DLD_P_RFA
LVDS_DLD_N_RFA
LVDS_DLP_P_RFB
LVDS_DLP_N_RFB
LVDS_DLD_P_RFB
LVDS_DLD_N_RFB
RF_PA_RAMP
APC_APT
WFSG_IP
WFSG_IN
WFSG_QP
WFSG_QN
WB_IP
WB_IN
WB_QP
WB_QN
GNSS_IP
GNSS_IN
GNSS_QP
GNSS_QN
AP_26M_IN
BB_USB_DP
BB_USB_DM
MDSI_DATA0_P
MDSI_DATA0_N
MDSI_DATA1_P
MDSI_DATA1_N
MDSI_DATA2_P
MDSI_DATA2_N
MDSI_DATA3_P
MDSI_DATA3_N
MDSI_CLK_P
MDSI_CLK_N
LCM_FMARK
LCM_RSTN
R0411 NC_6.04K 1% *
Internal resister
VDD1V85
R0400 NC_10K 5% 25V
BB_U1TXD
AUD_DAD1
AUD_DAD0
ADI_SCLK
ADI_D
CHG_TYPE
R0402 10K
R0403 10K
R0404 10K
R0405 10K
R0406 10K
R0407 10K
R0408 NC 10K
Front Camera
Macro Camera
Main CAMERA
R0408 0R 5% 50V
R0409 0R 5% 50V
R0410 0R 5% 50V
C0400 NC 100N
C0401 NC 100N
C0402 NC 100N
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
Title 04_BB_DIGITAL2
REV: V0.1
DOCUMENT NO.: LLDM178B3-4
Size D
DEPARTMENT: DEPARTMENT
DESIGNER: DESIGNER
龙 飘 科 技 LONGCHEER
Date: Friday, September 02, 2022
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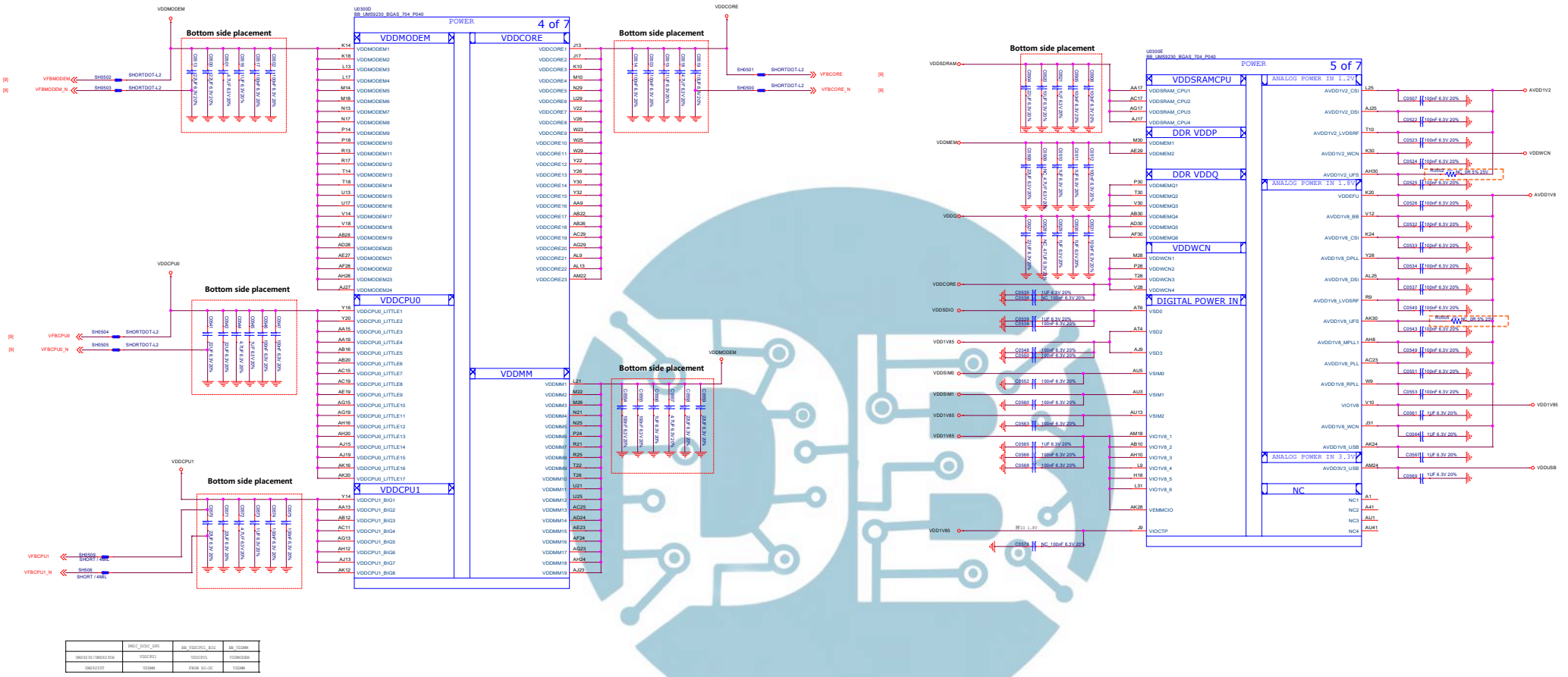
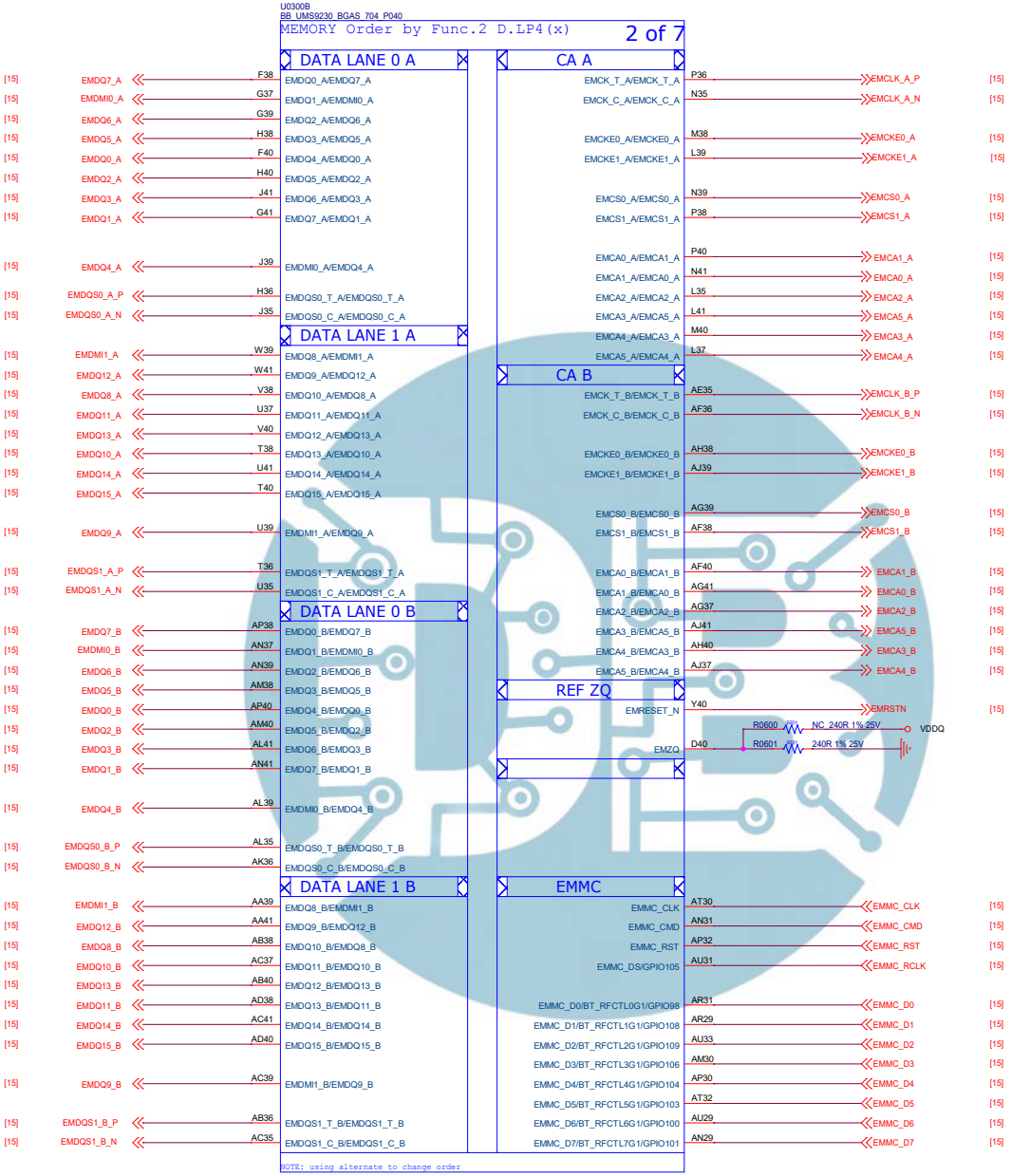
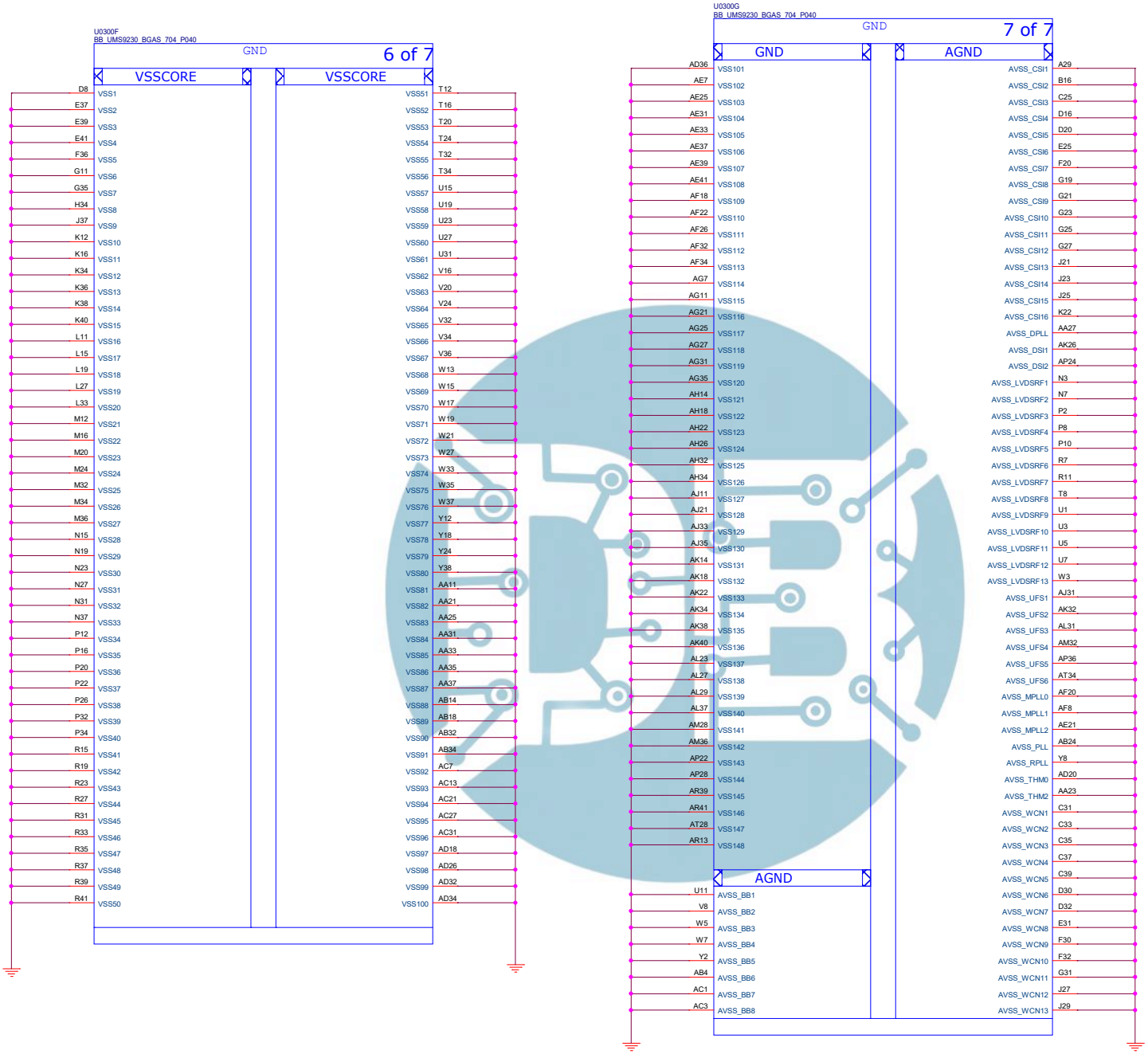


	PMIC_DCDC_GPU	SB_VDDCPU1_BIG	SB_VDDMM
UMS9230/UMS9230I	VDDCPU1	VDDCPU1	VDDMODEM
UMS9230T	VDD86	FROM DC-DC	VDD86

Title	05_BB_POWER		REV: V0.1
DOCUMENT NO.:	LLD86178B3-4		Size D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙 旗 科 技 LONGCHEER			
Date:	Friday, August 19, 2022	Sheet 5 of 99	



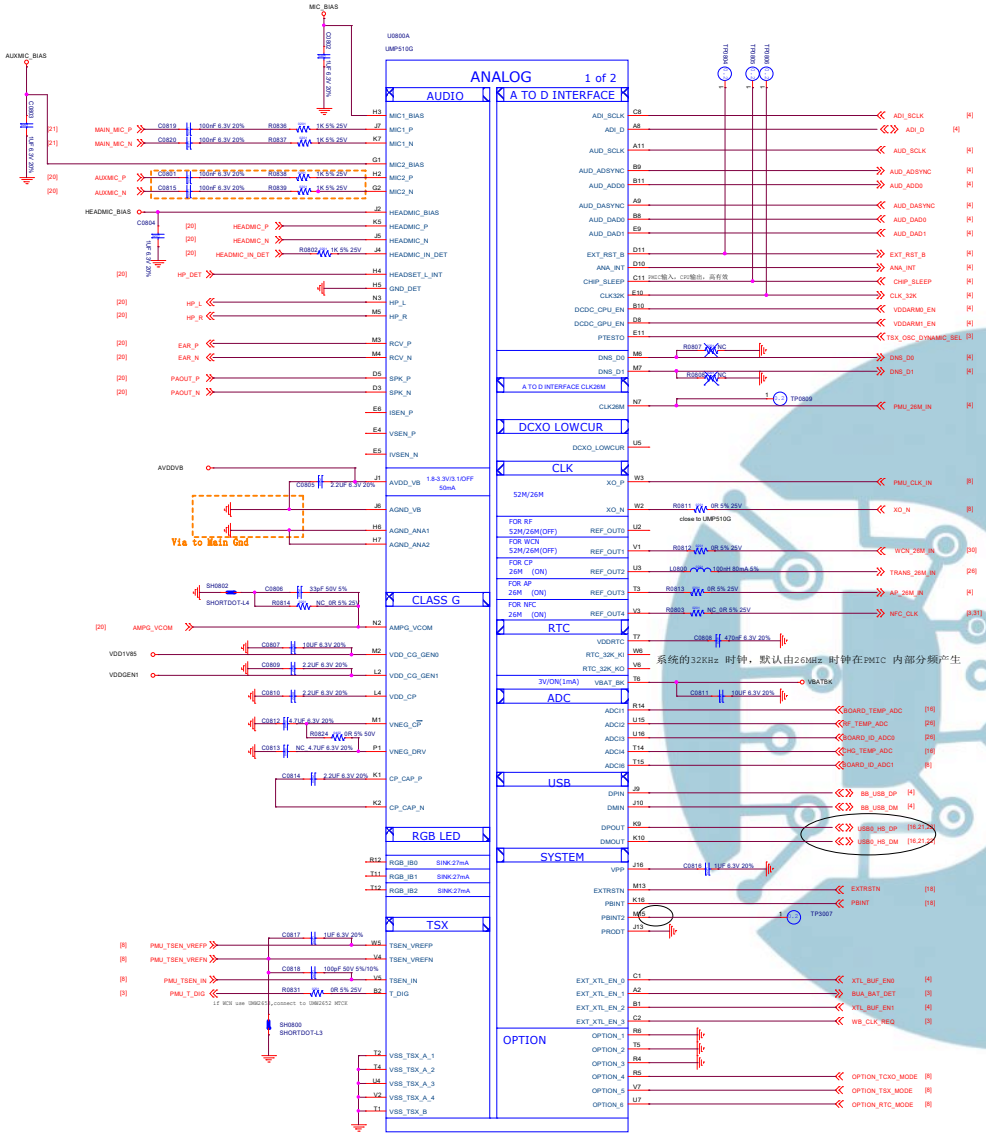
Title	06_BB_Memory		REV: V0.1
DOCUMENT NO.:	LLDM170B3-4		Size C
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date: Friday, August 19, 2022		Sheet 6 of 99	

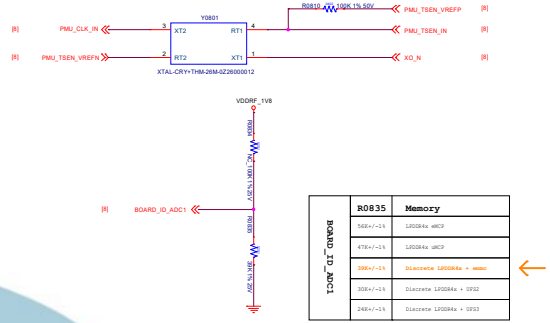


Title	07_BB_GND		REV: V0.1
DOCUMENT NO.:	LLDM170B3-4		Size C
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date: Friday, August 19, 2022		Sheet 7 of 99	

PMU_ANALOG

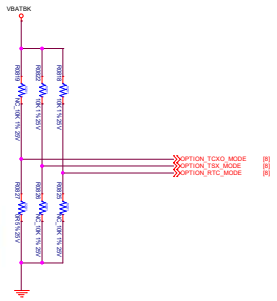
TSX（PMU）Only





R0835	Memory
560+/-1%	LPDDR4x eMCP
475K+/-1%	LPDDR4x eMCP
390K+/-1%	Discrete LPDDR4x + eMMC
301K+/-1%	Discrete LPDDR4x + UFS2
249K+/-1%	Discrete LPDDR4x + UFS3

Board ID



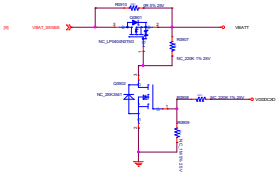
Item	Scenario	Option1	Option2
0	Qogir L6+UMP510G	0	0
1	Qogir L6+UMP510G+DCDC	0	1
2			
3			

Scenario	Option3(26M/32M)	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.:	LLD8178B3-4	Size D
DEPARTMENT:	DEPARTMENT	DESIGNER: DESIGNER
龙 飙 科 技 LONGCHEER		
Date: Friday, August 19, 2022	Sheet 8 of 99	

shipping mode



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	0.6-1.65	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)	Triple 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	1.6-3.3	800	±0.6	3.0	ON	SD Card power supply
	VDDSIM0	1.6-3.3	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
	VBATRK	2.45-3.3	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

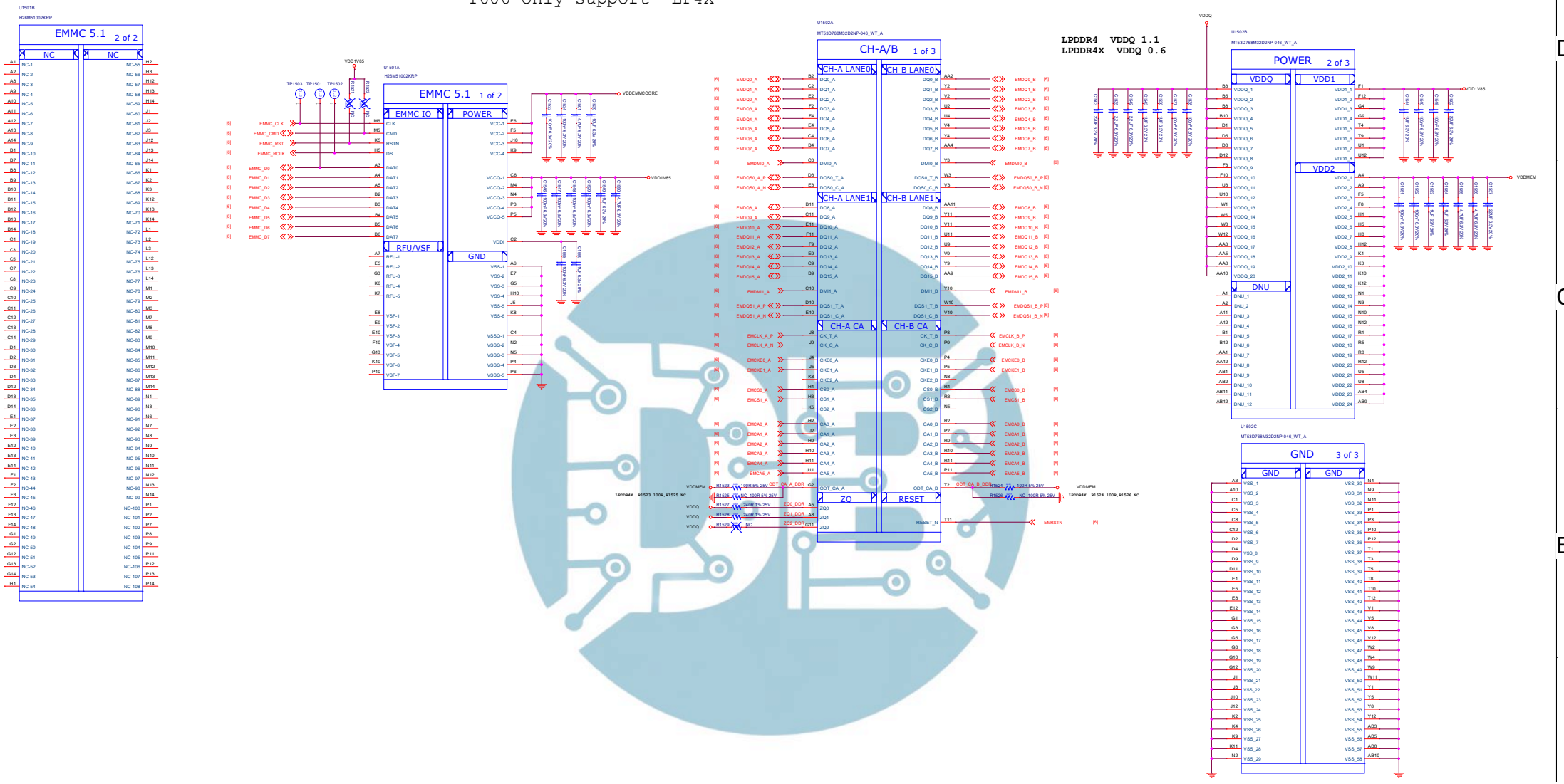
UMS9230	T606	不需要外部DCDC供电
UMS9230H	T612	VDD_CPU1使用PMIC DCDC_GPU供电
UMS9230T	T616	需要外部DCDC供电

Title	09_UMP510G_POWER
DOCUMENT NO.	LL0610B3-4
DEPARTMENT	DEPARTMENT
DESIGNED	DESIGNER
DATE	Thursday, September 29, 2022
REV.	V0.1
Size	B
Sheet	9 of 99

eMMC5.1

Discrete LPDDR4(default)/Discrete LPDDR4X(backup)

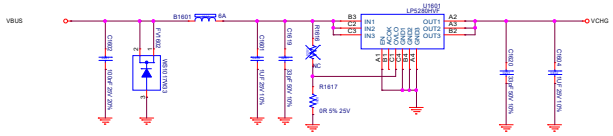
LPDDR4 VDD1=1.8V VDD2=VDDQ=1.1V
LPDDR4X VDD1=1.8V VDD2=1.1V VDDQ=0.6V
T606 only support LP4X



Title	15_EMMC_DDR4
DOCUMENT NO.:	LLDM17003-4
DEPARTMENT:	DEPARTMENT
DESIGNER:	DESIGNER
Date:	Friday, August 26, 2022
Sheet	15 of 99

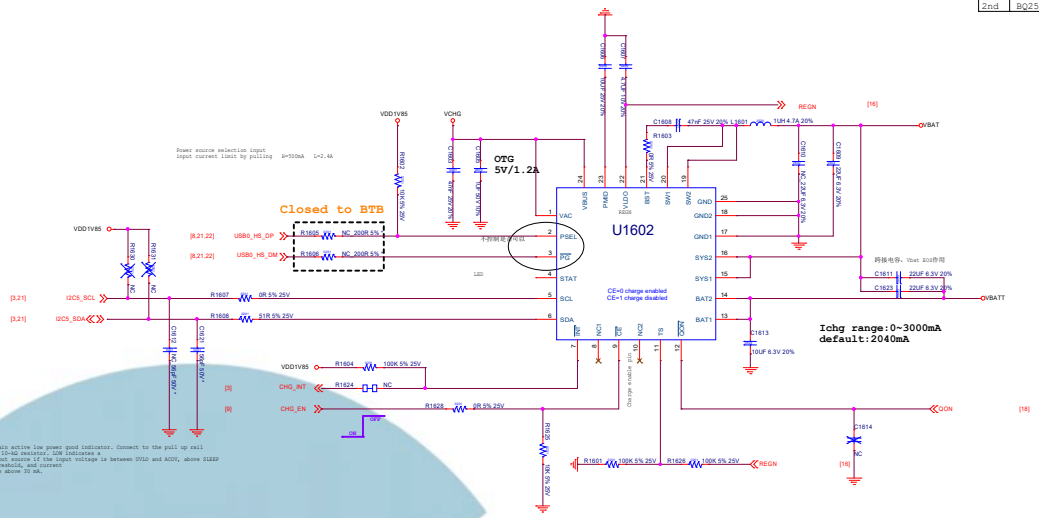
OVP

U1601		
	Manufacture 1 P/N	Manufacture
1st	LP5280HVF	Lowpowersemi
2nd	AW32905	AWINIC
3rd	ET9540CL	ETEK



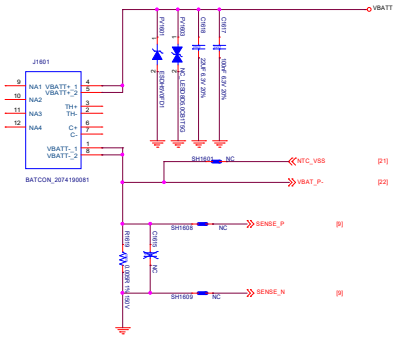
Switching Charger

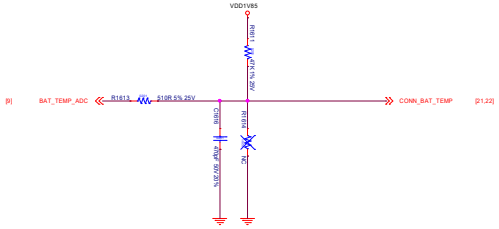
U1602			
	Manufacture 1 P/N	Manufacture	I2C ADDRESS
1st	SD155/TR	SGMICRO	0X6B(6BH)
2nd	BQ25601RTWR	TEXAS	6BH



U1603			
	Manufacture 1 P/N	Manufacture	I2C ADDRESS
1st	NC	NC	NC
2nd	NC	NC	NC

BATTERY CONNECTOR





NTC

Switching charger:can reserved
Linear charger:must add

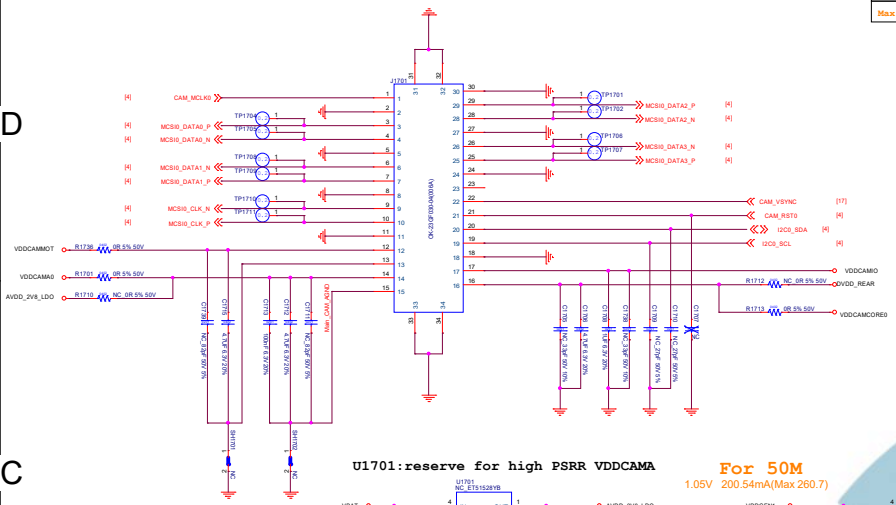
BOARD NTC

Charger indicator

Title	16_PERI_CHARGER_BAT CONN		0.1
DOCUMENT NO.:	LLDM170603-4		Size D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Thursday, September 29, 2022	Sheet	16 of 99

REAR CAMERA:13M

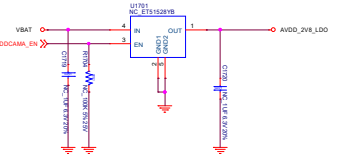
	AVDD	DVDD	IOVDD	AFVDD
Typ	2.8V 36mA	1.1V 81mA	1.8V 4mA	TBD
Min	2.7V	1.0V	1.7V	TBD
Max	2.9V 44mA	1.2V 106mA	2.9V 7mA	TBD



For 13M

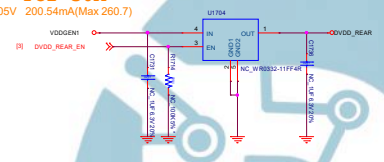
For 50M

U1701:reserve for high PSRR VDDCAMA



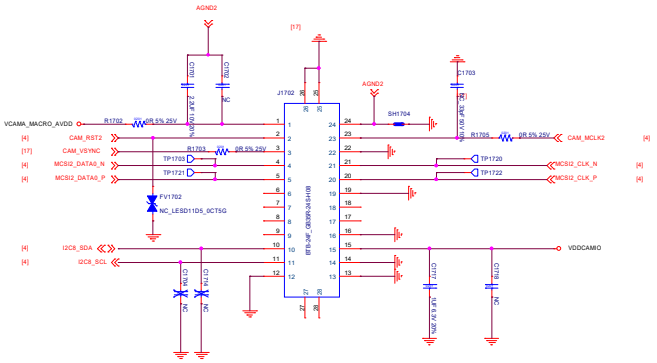
For 50M

1.05V 200.54mA(Max 260.7)

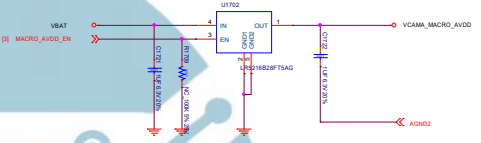


Macro Camera 2M

	AVDD	DVDD	IOVDD	AFVDD
Typ	2.8V 22mA	NA	1.7V 30mA	NA
Min	2.6V	NA	1.8V	NA
Max	3.0V 44mA	NA	3.0V	NA

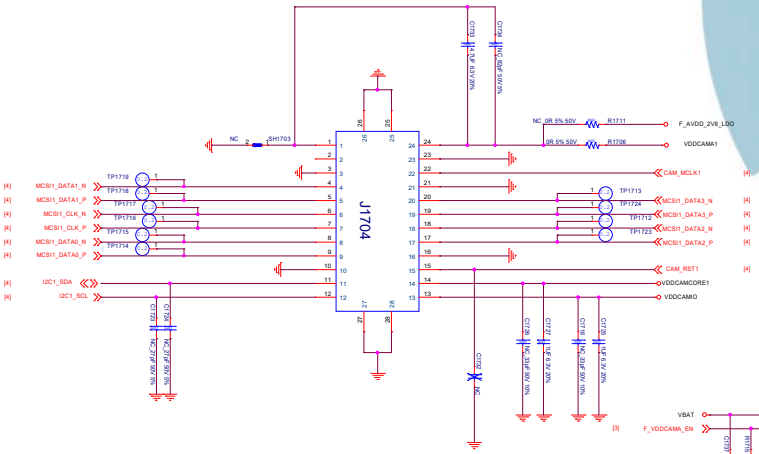


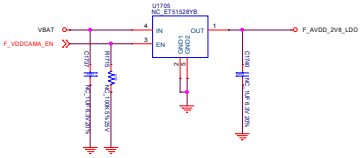
For 2M AVDD



FRONT CAMERA:5M

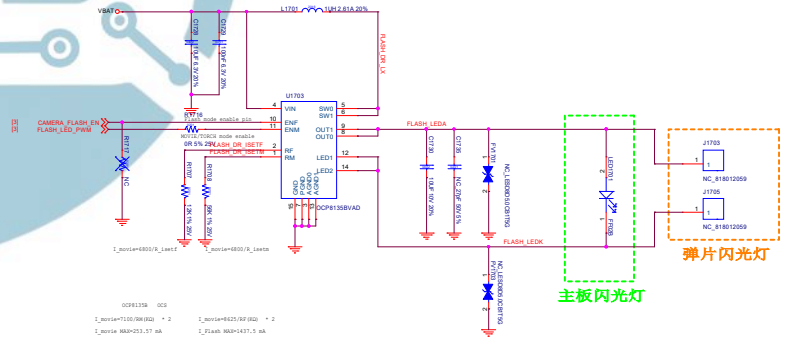
	AVDD	DVDD	IOVDD	AFVDD
Typ	2.8V 33mA	1.2V 35mA	1.8V 0.5mA	NA
Min	2.7V	1.15V	1.7V	NA
Max	3.0V 43mA	1.3V 47mA	1.9V 1mA	NA





FLASH LED

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



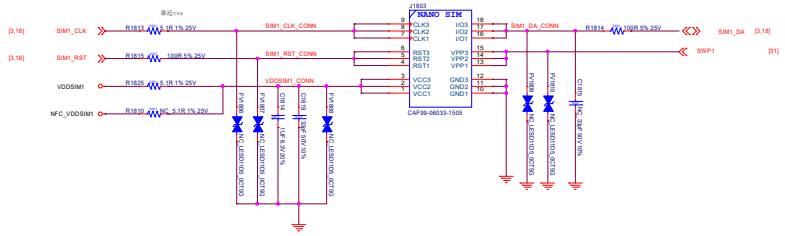
Connect to main ground plane by via directly

Title	17_CAMERA	SW:	V0.1
DOCUMENT NO.:	LLDM17003-4	Size	D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Saturday, October 01, 2022	Sheet	17 of 99

SIM1

靠近板外

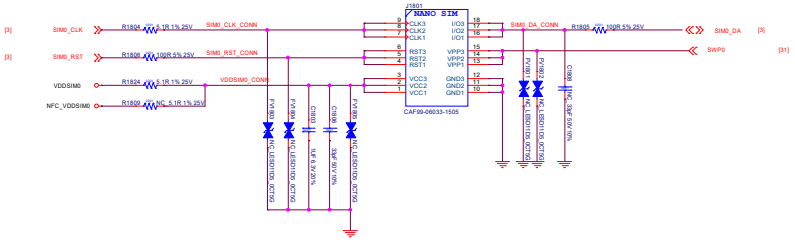
SIM1



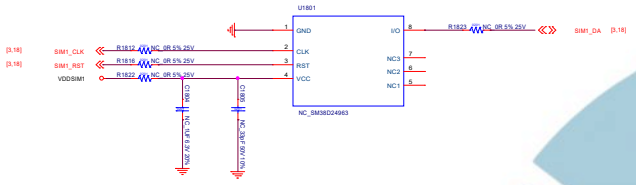
SIM0

SIM0

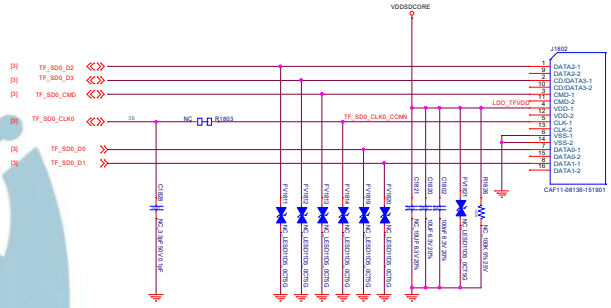
靠近板内



eSIM

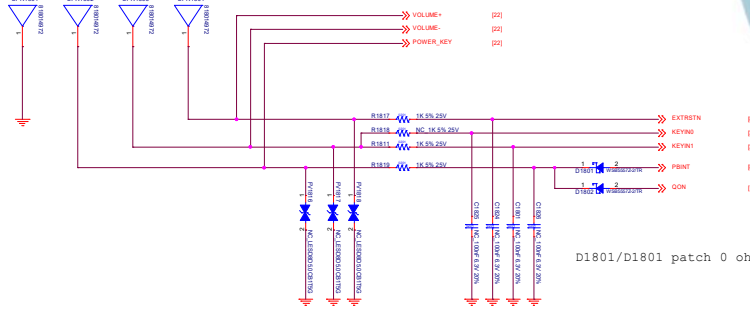


SD CARD



Power Key / Key Pad

GND Power - +



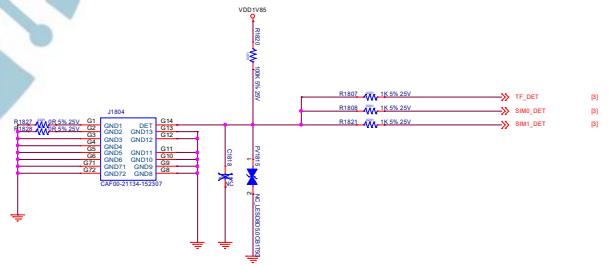
Volume+ Key;Location:Up

Volume- Key;Location:Down

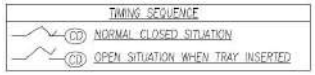
POWER KEY

D1801/D1801 patch 0 ohm resistance

Detect



Card IN	1
Card Out	0



Title	18_SIM&SDCARD_SIDEKEY
DOCUMENT NO.:	LLDM170803-4
DEPARTMENT:	DEPARTMENT
DESIGNER:	DESIGNER
Date:	Thursday, September 29, 2022
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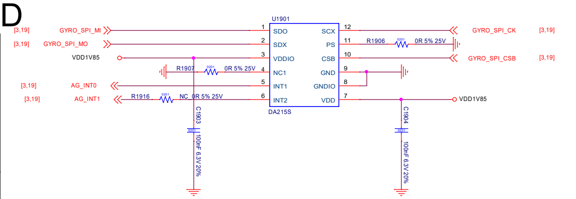
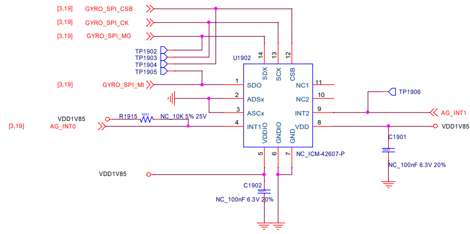
G-Sensor

U1901			
	Manufacture 1 P/N	Manufacture	I2C ADDRESS
1st	DA215S	MiraMEMS	0X26
2nd			
3rd	MC3419-P	mCube	0X4C

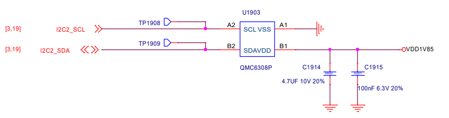


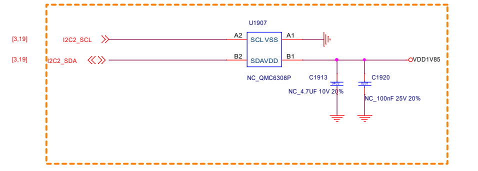
A+G-Sensor



E-compass

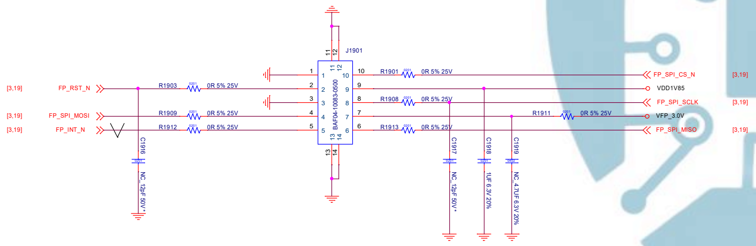
U1904		
	Manufacture 1 P/N	Manufacture
1st	NC	NC
2nd	NC	NC

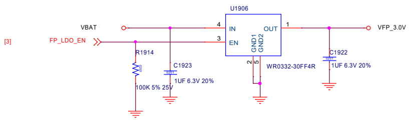


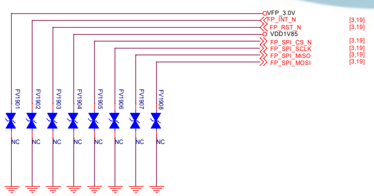


先摆放2个区域，后期根据位置环境选择一个，
先做兼容设计

Finger Print

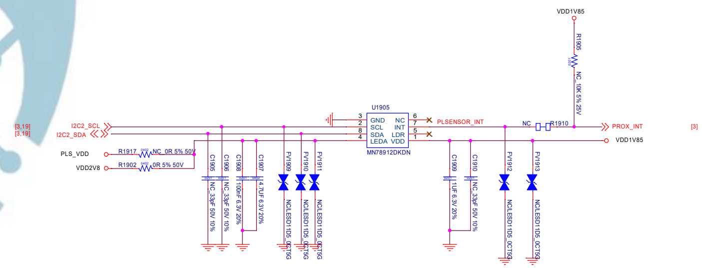


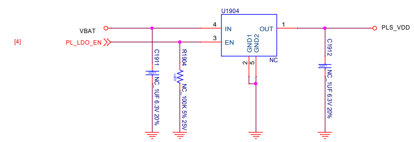




P+L Sensor

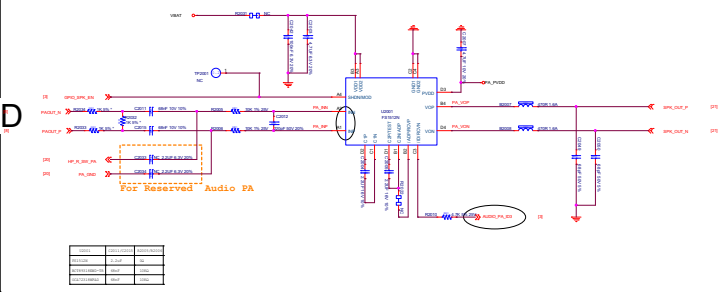
U1905			
	Manufacture 1 P/N	Manufacture	I2C ADDRESS
1st	LTR-569ALS-WA	LITEON	0X23H
2nd	LS-9800-A	LEVELEK	0x54



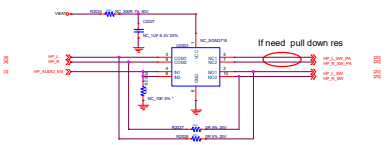


Title	19_SENSOR&VIBR	REV: V0.1	
DOCUMENT NO.:	LLDM170B3-4	Size D	
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙 旗 科 技 LONGCHEER			
Date:	Friday, August 26, 2022	Sheet 19 of 99	

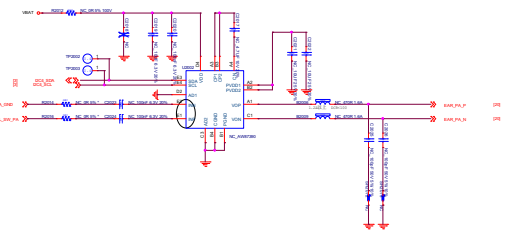
Audio PA For Speaker



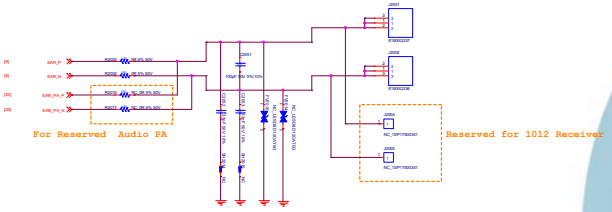
Audio SW



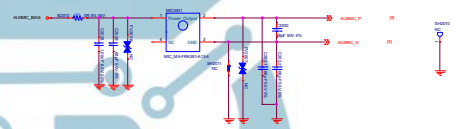
Audio PA For Receiver



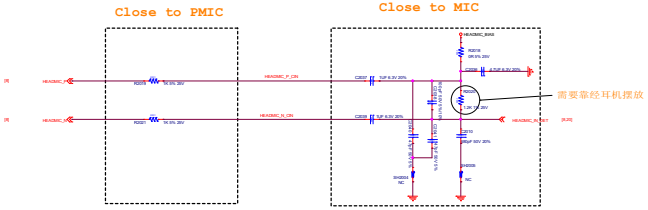
Receiver



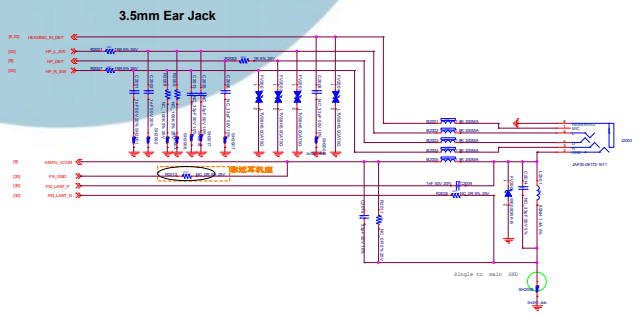
AUX MIC



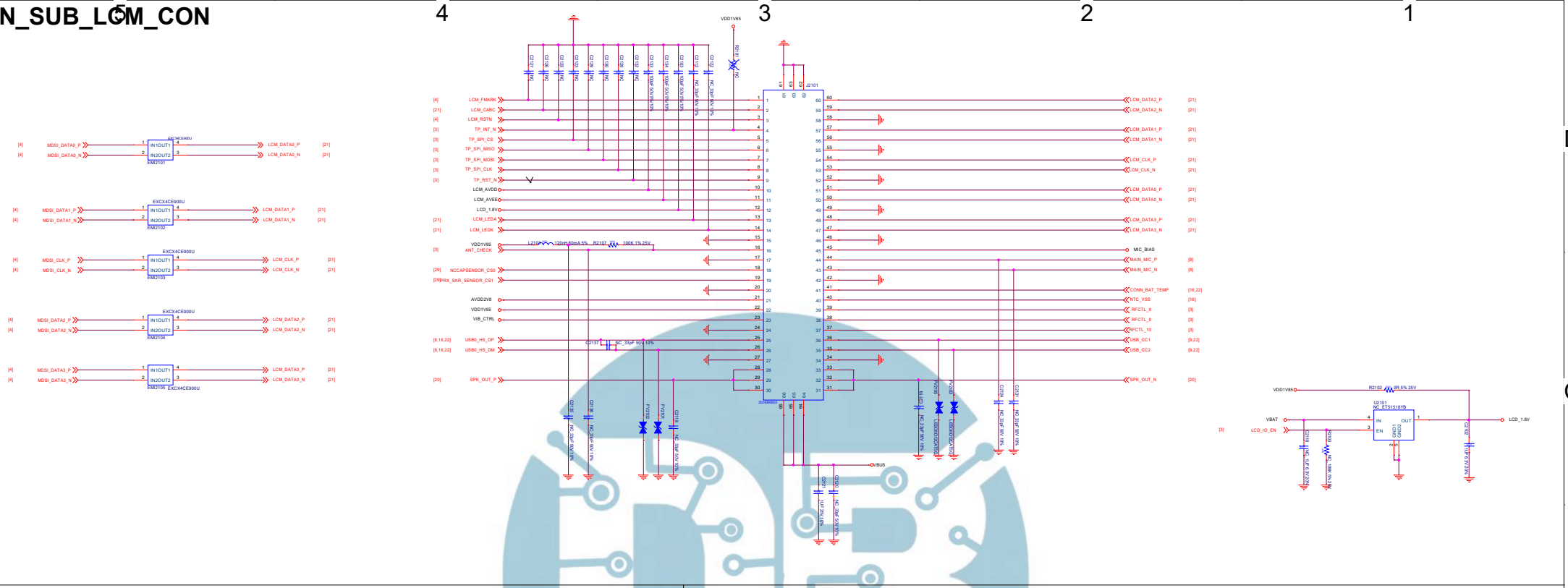
HEAD MIC



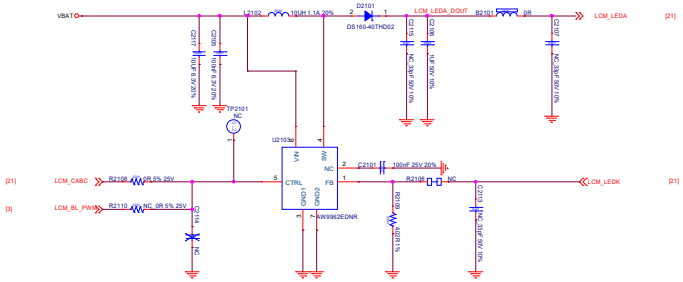
3.5mm Headphone Jack



MAIN_SUB_LCM_CON

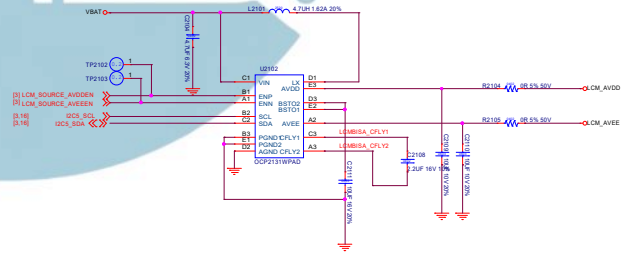


LCM_Backlight



U2103		
	Manufacture 1 P/N	Manufacture
1st	AW9962EDNR	AWINIC
2nd	SGM3756YTDI6G/TR	SGMICRO
3rd	OCP81780VAD	OCS

LCM BIAS



U2102			
	Manufacture 1 P/N	Manufacture	I2C ADDRESS
1st	OCP2131BWPAD	OCS	3EH
2nd	SM5109C	Silicon mitus	
3rd	AW37501CSR	AWINIC	0x3EH

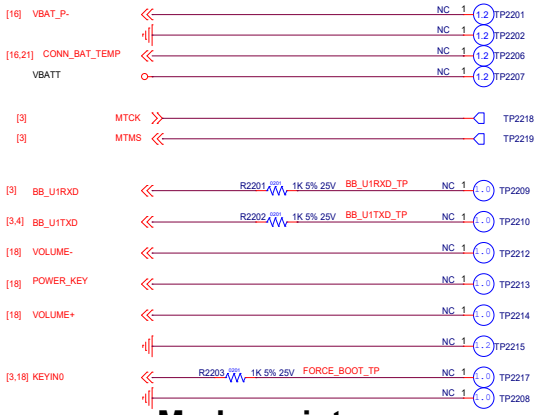
Title	21_SUB_LCM IF_LCMBIAS_SL		V0.1
DOCUMENT NO.:	LLDM17083-4		Size D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
Date:	Thursday, September 08, 2022	Sheet	21 of 99

龙旗科技 LONGCHEER

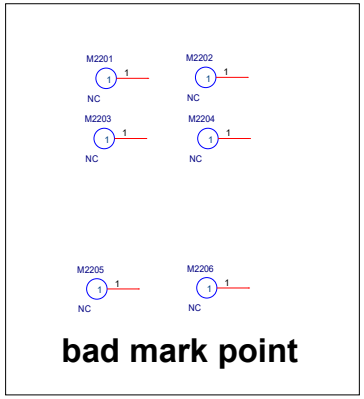
USB TEST POINT

BAT

测试点符号不一致



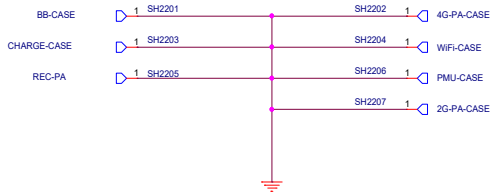
Marks point



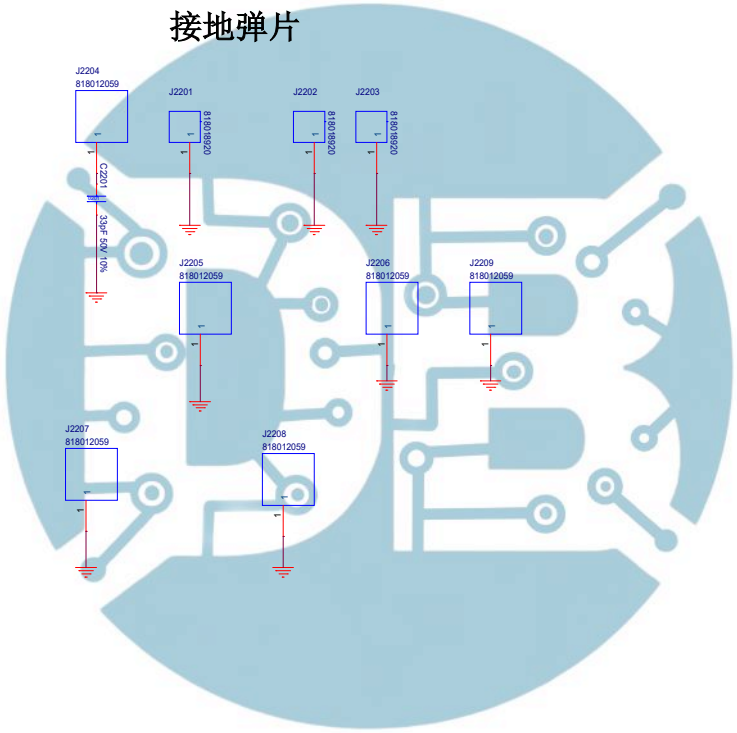
Shielding frame

TOP

BOTTOM



接地弹片



Q2201&Q2202		
	Manufacture 1 P/N	Manufacture
1st	CJBA3134K	JSCJ
2nd	LSI1012BN3T5G	LRC
3rd	PNM3FD20V1EM	Prisemi

Title	22_Test Point_Shielding	REV: V0.1
DOCUMENT NO.:	LLDM170B3-4	Size C
DEPARTMENT:	DEPARTMENT	DESIGNER: DESIGNER
龙旗科技 LONGCHEER		
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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	25_RF_change list	REV:	V0.1
DOCUMENT NO.:	LLDM170B3-4	Size	A0
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
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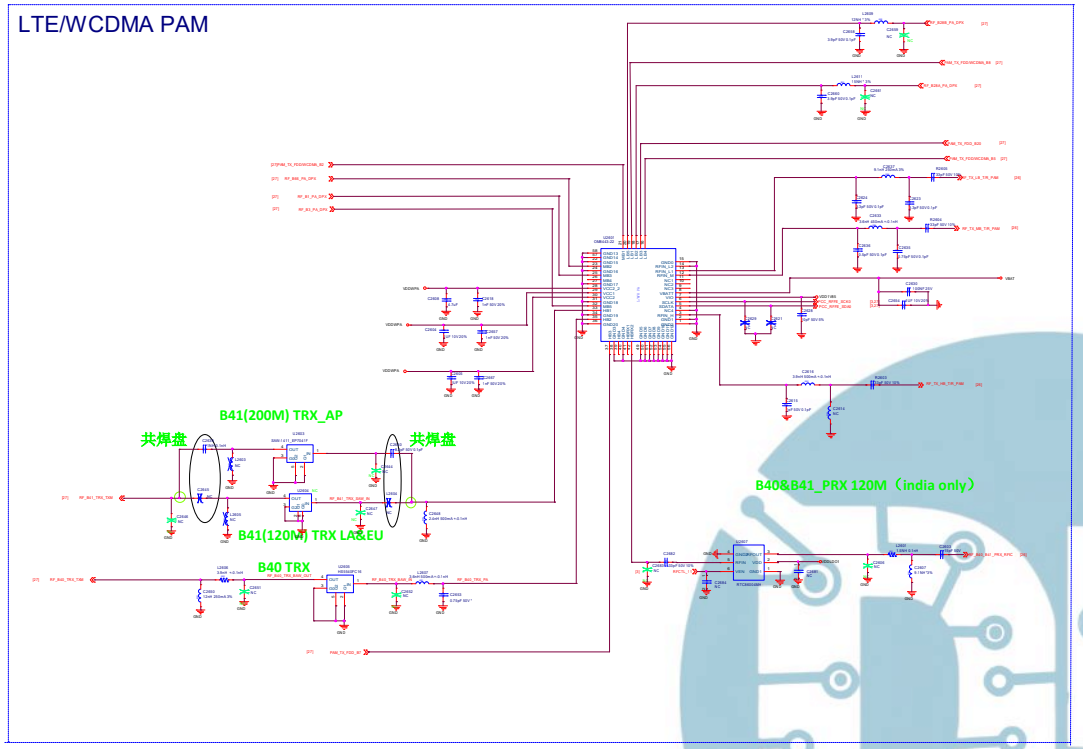
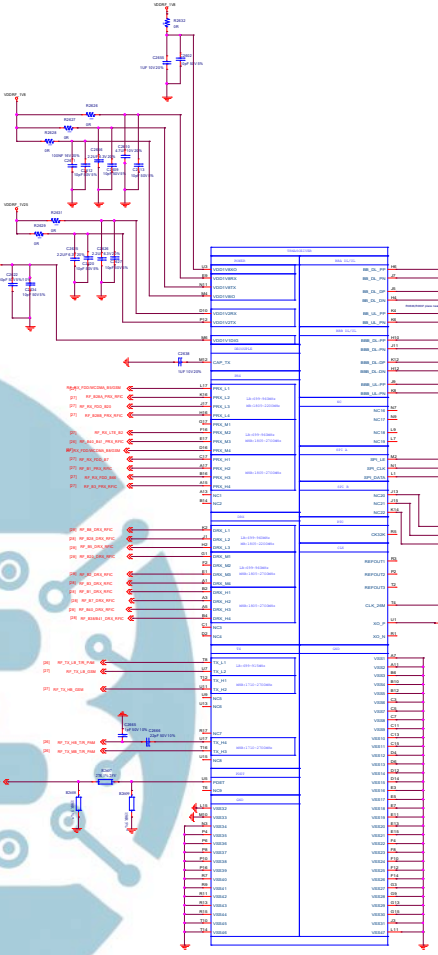
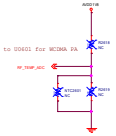
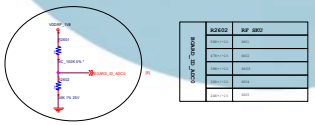

LTE/WCDMA PAM

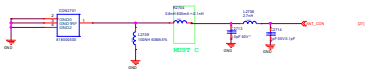
B41(200M) TRX_AP
共焊盘
共焊盘
B41(120M) TRX LAEU
B40 TRX

B40&B41_PRX 120M（india only）

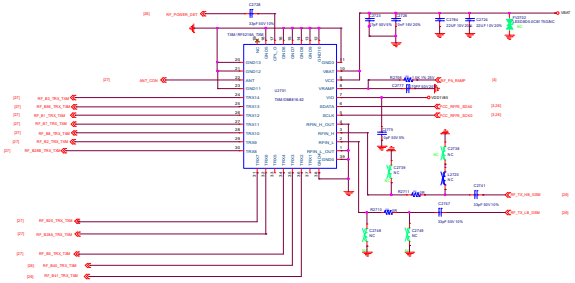



NTC

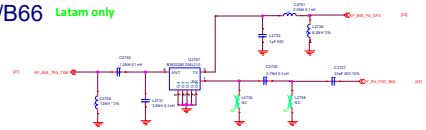




TDD B34/B39/GSM PA
+ Switch

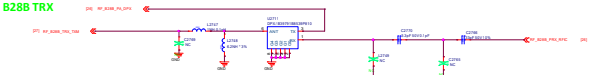


B4/B66 Latam only

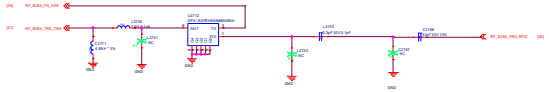


Latam&CIS

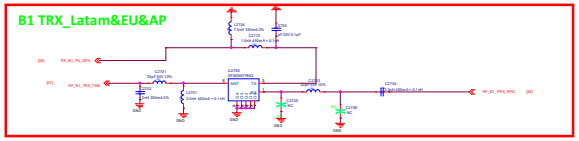
B28B TRX



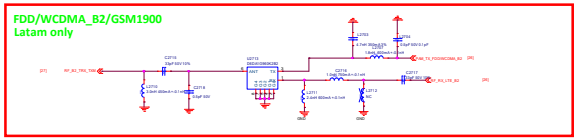
B28A TRX



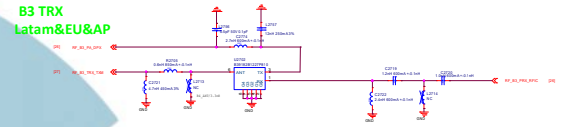
B1 TRX_Latam&EU&AP



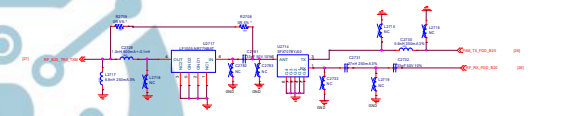
FDD/WCDMA_B2/GSM1900
Latam only



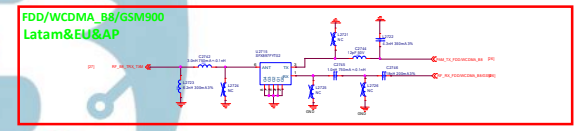
B3 TRX
Latam&EU&AP



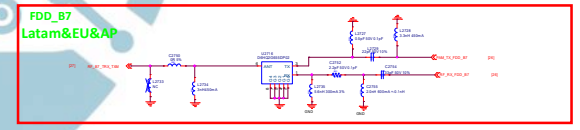
LA_B13 & EU_B20 &AP_B20



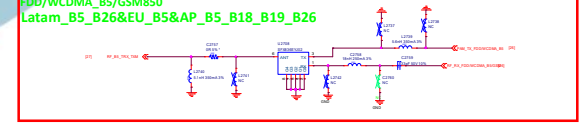
FDD/WCDMA_B8/GSM900
Latam&EU&AP



FDD_B7
Latam&EU&AP



FDD/WCDMA_B5/GSM850
Latam_B5_B26&EU_B5&AP_B5_B18_B19_B26



Title	27.RF_PRIMARY	REV.	V0.1
DOCUMENT NO.	LL2007290014	Size	Custom
DEPARTMENT	DEPARTMENT	DESIGNER	DESIGNER
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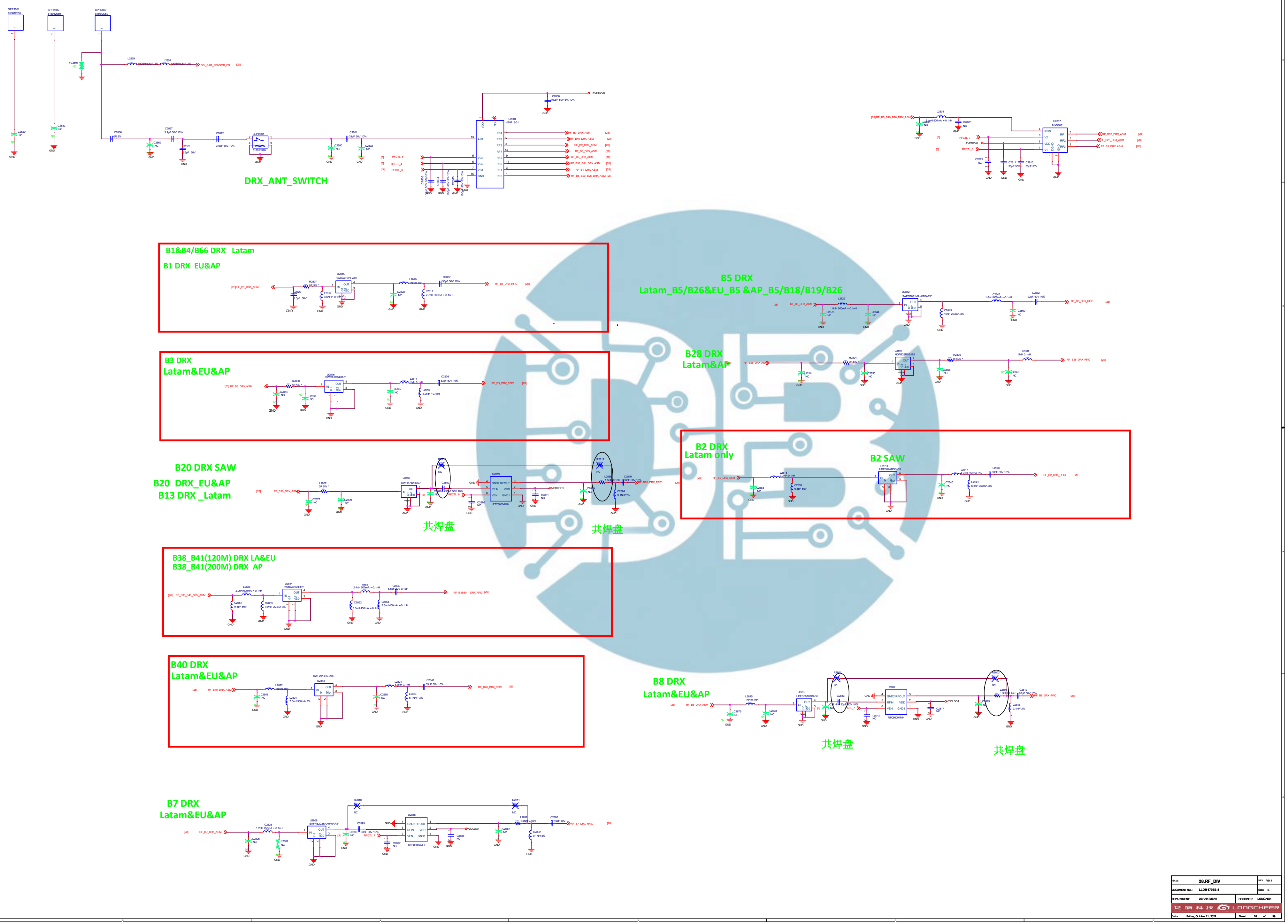
LONGCHEER



DRX_ANT_SWITCH
B1&B4/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
B2 DRX
Latam only
B2 SAW
B20 DRX SAW
B20 DRX_EU&AP
B13 DRX _Latam
共焊盘
共焊盘
B38_B41(120M) DRX LA&EU
B38_B41(200M) DRX AP
B40 DRX
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Latam&EU&AP
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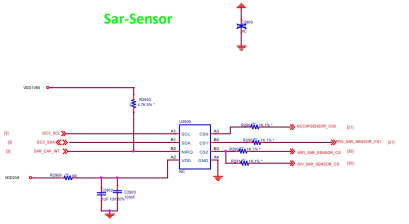
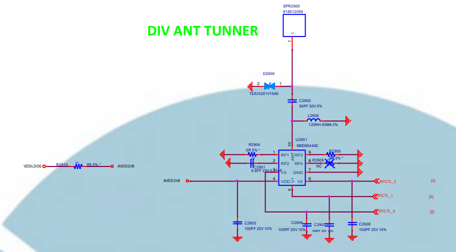
共焊盘
B7 DRX
Latam&EU&AP

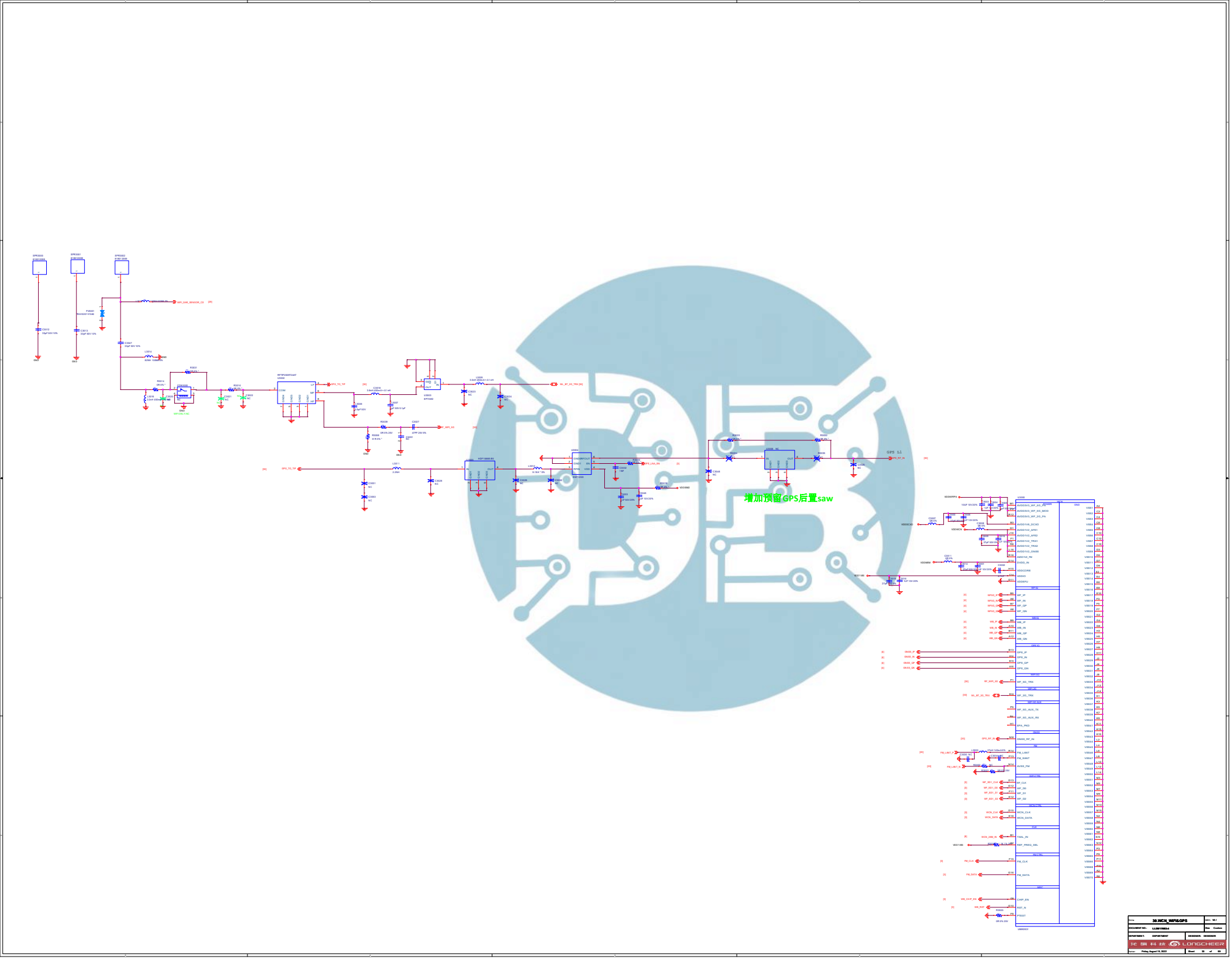
Sar-Sensor

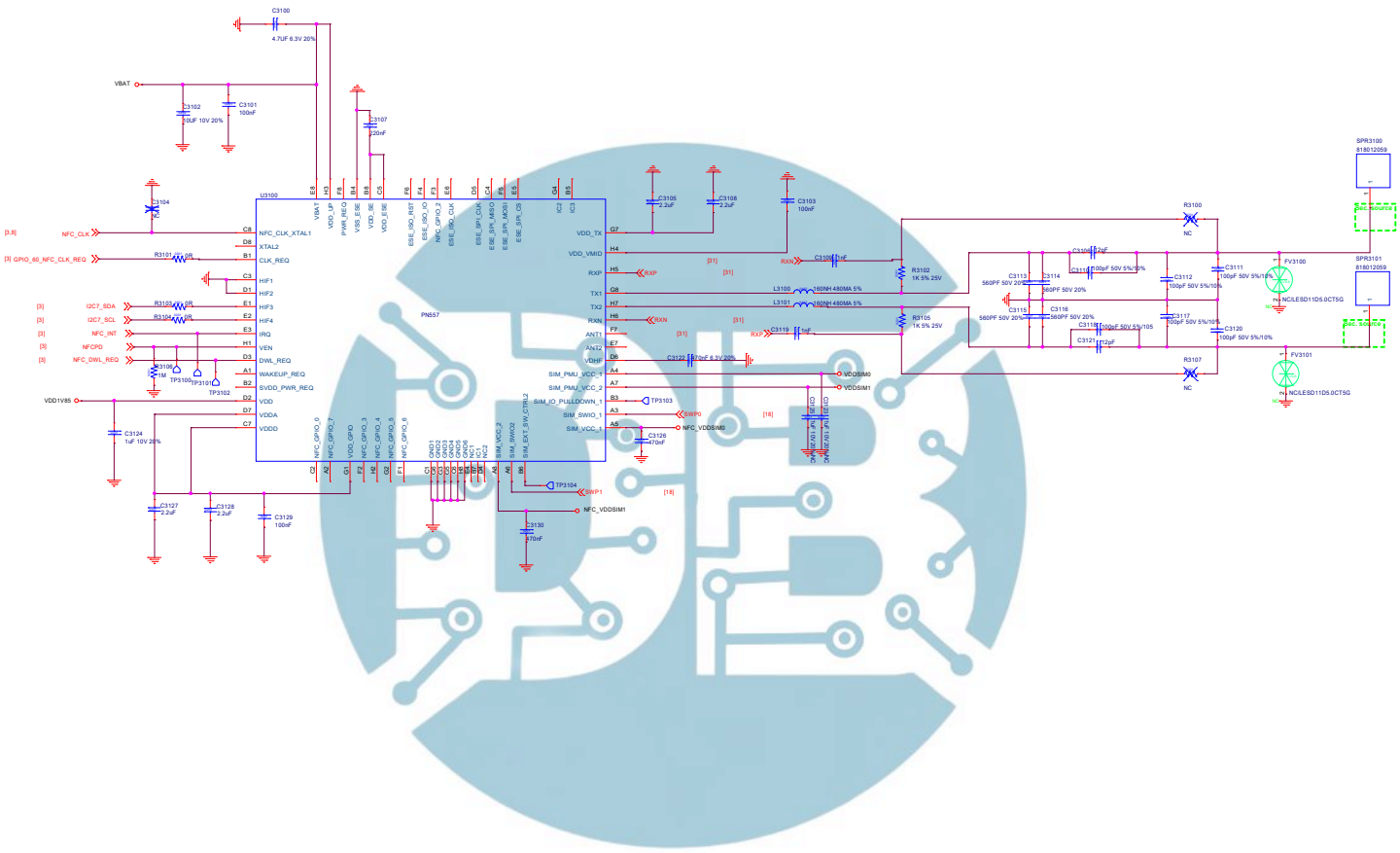


DIV ANT TUNNER



Title	29.Sar sensor_DIV_Tuner	REV:	V0.1
DOCUMENT NO.:	LLDM170B3-4	Size	Custom
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Friday, October 21, 2022	Sheet 29 of 99	


增加预留GPS后置saw



Title	31.NFC	REV:	V0.1
DOCUMENT NO.:	LLD8178B3-4	Size	D
DEPARTMENT:	DEPARTMENT	DESIGNER:	DESIGNER
龙旗科技 LONGCHEER			
Date:	Friday, August 19, 2022	Sheet	31 of 99