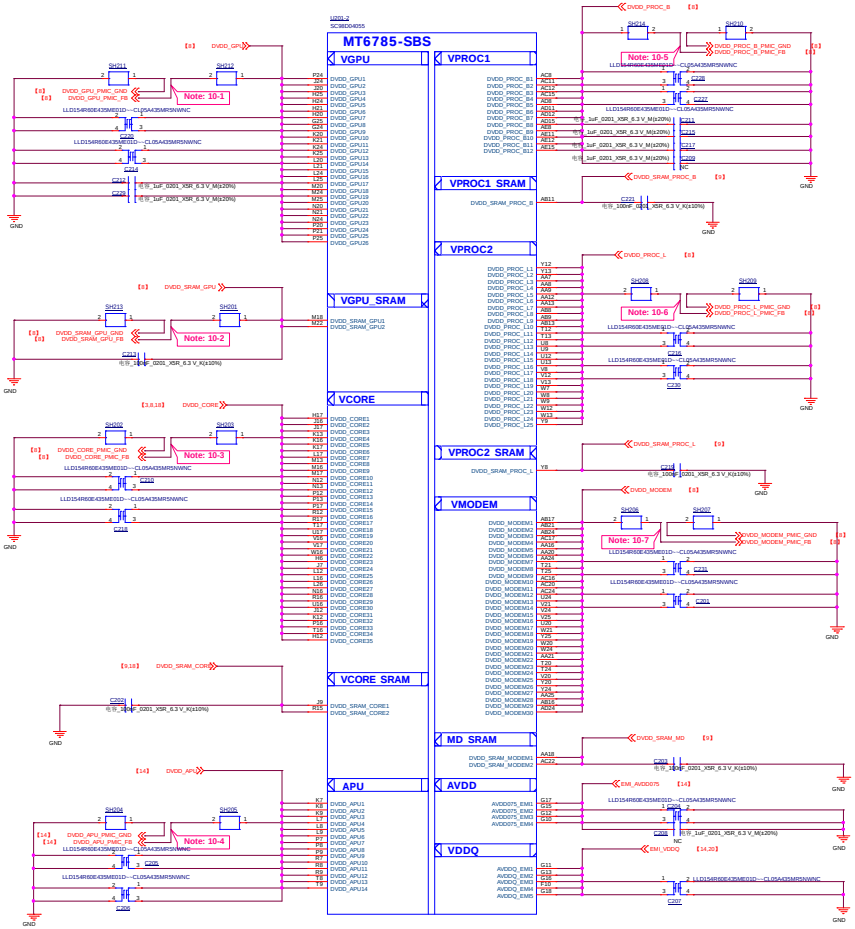
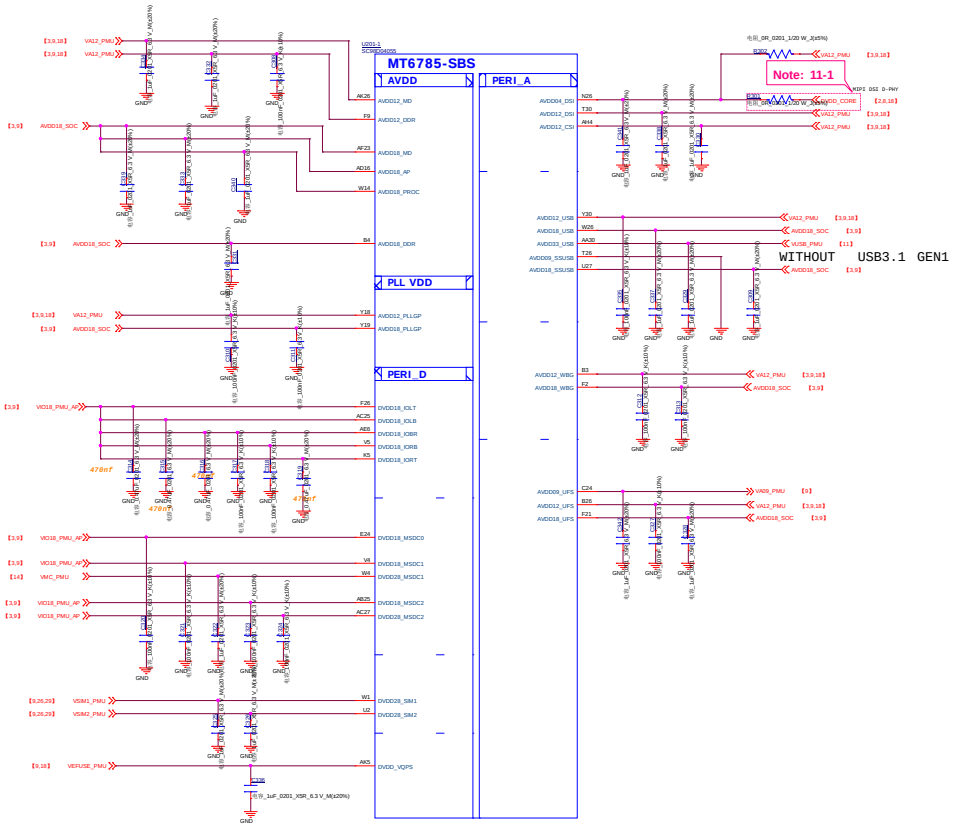
鹰讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	Block Diagram	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 1 of 99	

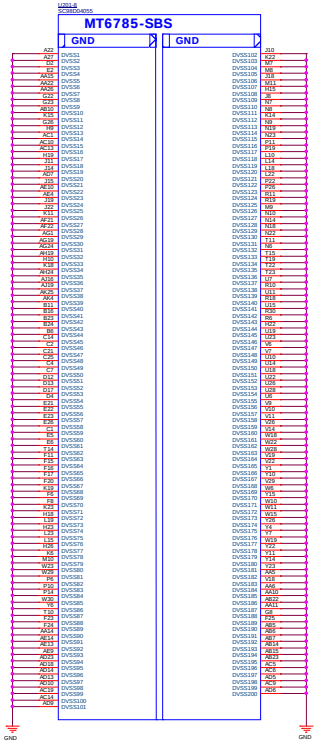


Schematic design notice of "10_BB_POWER_PDN" page.

Note 10-1:	Differential pair of DVDD_GPU remote sense must be close to BB's ball. Remote sense trace with GND shielding to PMIC (Differential)
Note 10-2:	Differential pair of DVDD_SRAM_GPU remote sense must be close to 22uF due to SRAM application. Remote sense trace with GND shielding to PMIC (Differential)
Note 10-3:	Differential pair of DVDD_CORE remote sense must be close to BB's ball. Remote sense trace with GND shielding to PMIC (Differential)
Note 10-4:	Differential pair of DVDD_APU remote sense must be close to BB's ball. Remote sense trace with GND shielding to PMIC (Differential)
Note 10-5:	Differential pair of DVDD_PROC_B remote sense must be close to BB's ball Remote sense trace with GND shielding to PMIC (Differential)
Note 10-6:	Differential pair of DVDD_PROC_L remote sense must be close to BB's ball Remote sense trace with GND shielding to PMIC (Differential)
Note 10-7:	Differential pair of DVDD_MODEM remote sense must be close to BB's ball. Remote sense trace with GND shielding to PMIC (Differential)

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	BB_POWER_PDN	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 2 of 99	





Schematic design notice of "11_BB_POWER_IO" page.

Note 11-1: For D-PHY application, connect MIPI Power domain AVDD04_DSI to DVDD_CORE.
For C-PHY application, connect MIPI Power domain AVDD04_DSI to VA12_PMU.

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	BB_POWER_IO	
Size D	Project Hanoi	Rev V1
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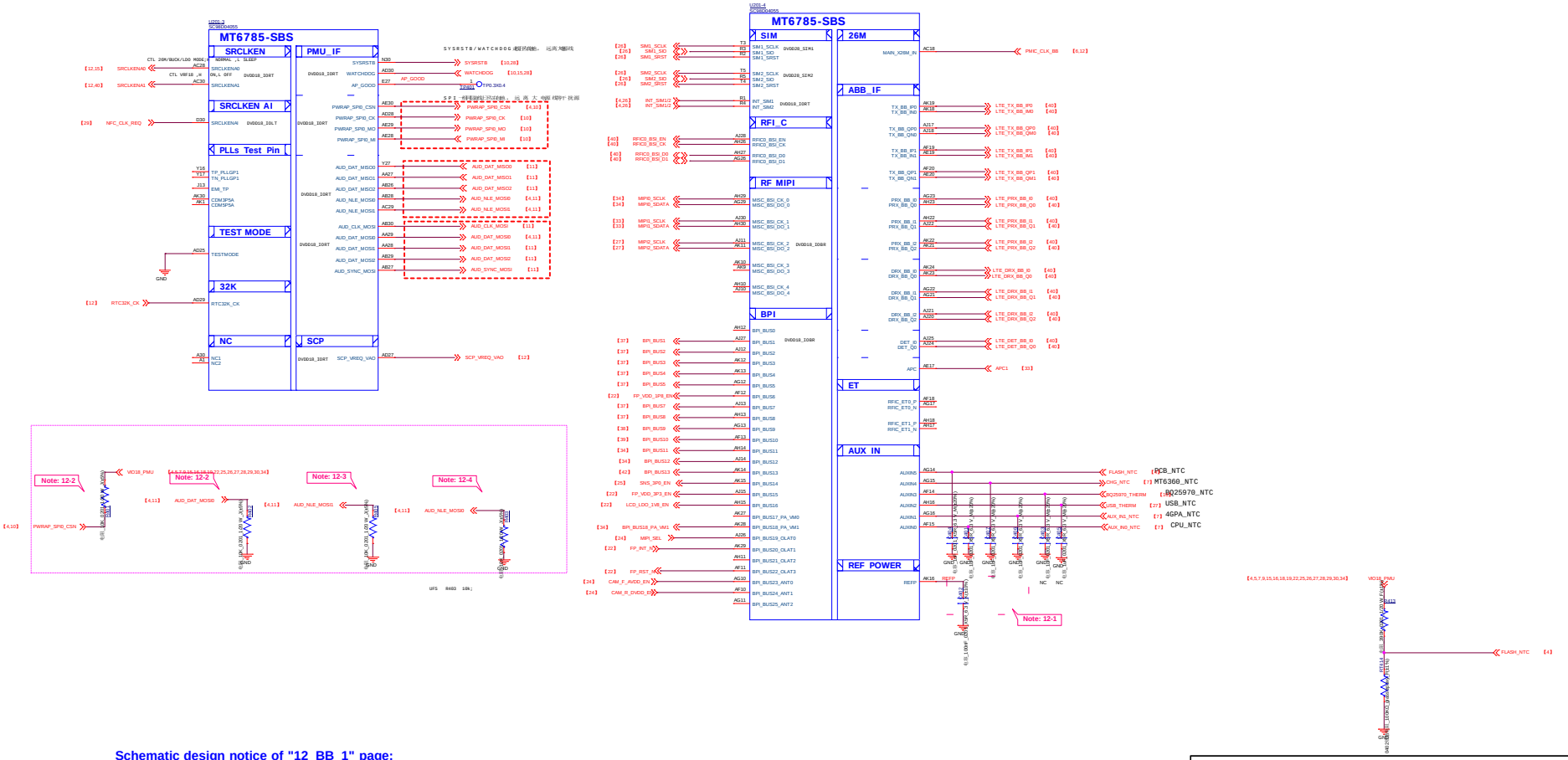

Schematic design notice of "12_BB_1" page:

Note 12-1: The de-coupling cap. for REFP (AK16 ball) have to be placed as close to BB as possible.

Note 12-2: PWRAP_SPI0_CSN and AUD_DAT_MOSI are JTAG feature in bootstrap.

PWRAP_SPI0_CSN	AUD_DAT_MOSI0	AP_JTAG	IO_JTAG
HI	LO	N/A	N/A
HI	HI (by external PU)	SPI_CSB/SPI_CLK/ SPI_MO/SPI_MI/EINT3	N/A
LO (by external PD)	LO	SPI_CSB/SPI_CLK/ SPI_MO/SPI_MI/EINT3	TDM_LRCK/TDM_BCK/TDM_MCLK/ TDM_DATA0/TDM_DATA1
LO (by external PD)	HI (by external PU)	MSDC1_CLK/CMD/ DAT0/DAT1/DAT2	N/A

Note 12-3: AUD_NLE_MOSI1 is USB JTAG feature in bootstrap.

AUD_NLE_MOSI1	USB JTAG
LO	USB 2.0
HI (by external PU)	DP/DM output JTAG

Note 12-4: AUD_NLE_MOSI0 is storage booting feature in bootstrap.

AUD_NLE_MOSI0	Storage Booting
LO	UFS only
HI (by external PU)	eMMC only

華勤 讯 Hua qin Tele com Technol ogy Com.Ltd		
Title: BB_1		
Size: D	Project: Hanoi	Rev: V1
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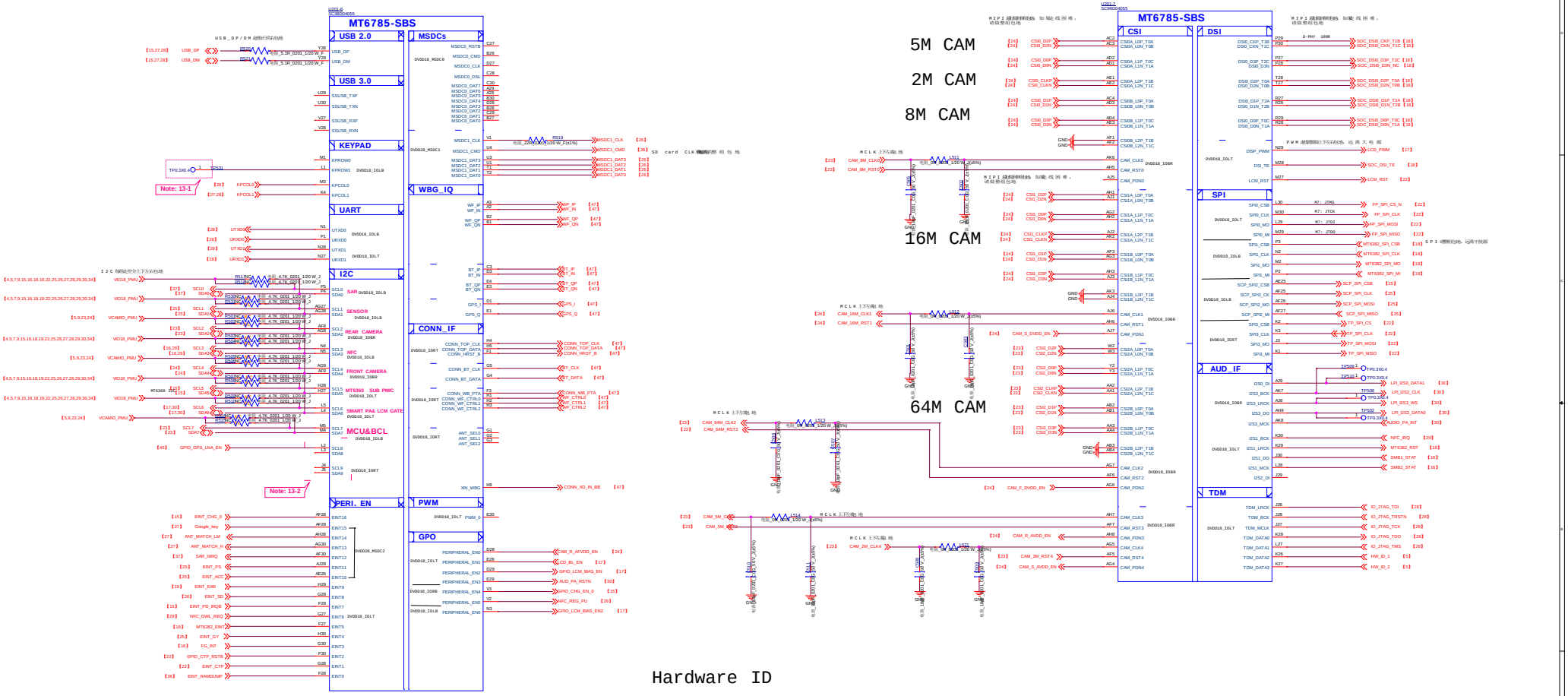
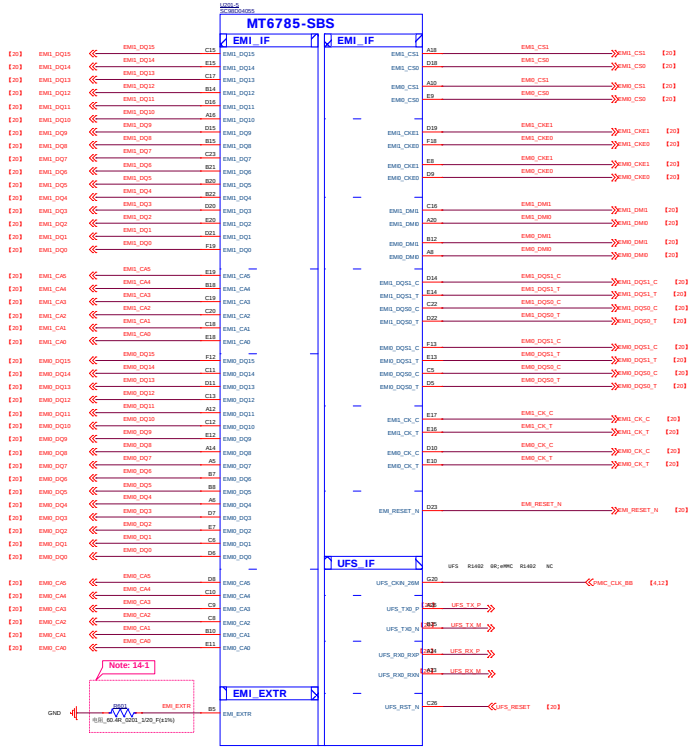


Schematic design notice of "13_BB_2" page.

Note 13-1: Reserved for fast META mode detection

Note 13-2: For (I2C-8, I2C-9), must have pull up resistor 4.7K ohm for standard mode and fast mode; 2.2K ohm for fast mode plus and high speed mode.

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	BB_2	
Size D	Project Hanoi	Rev V1
Date: Friday, April 02, 2021	Sheet 5 of 99	



Schematic design notice of "14_BB_3_Interface" page:

Note 14-1: R4001 please select 60.4 ohm (1%) resistor

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	BB_3_LP4X	
Size D	Project Hanoi	Rev V1
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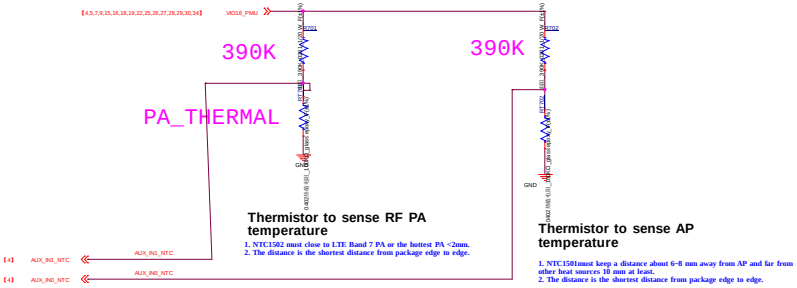
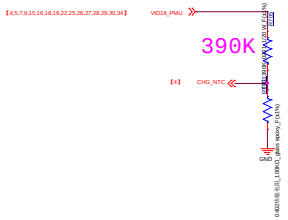
4G PA NTC thermistor 3MM

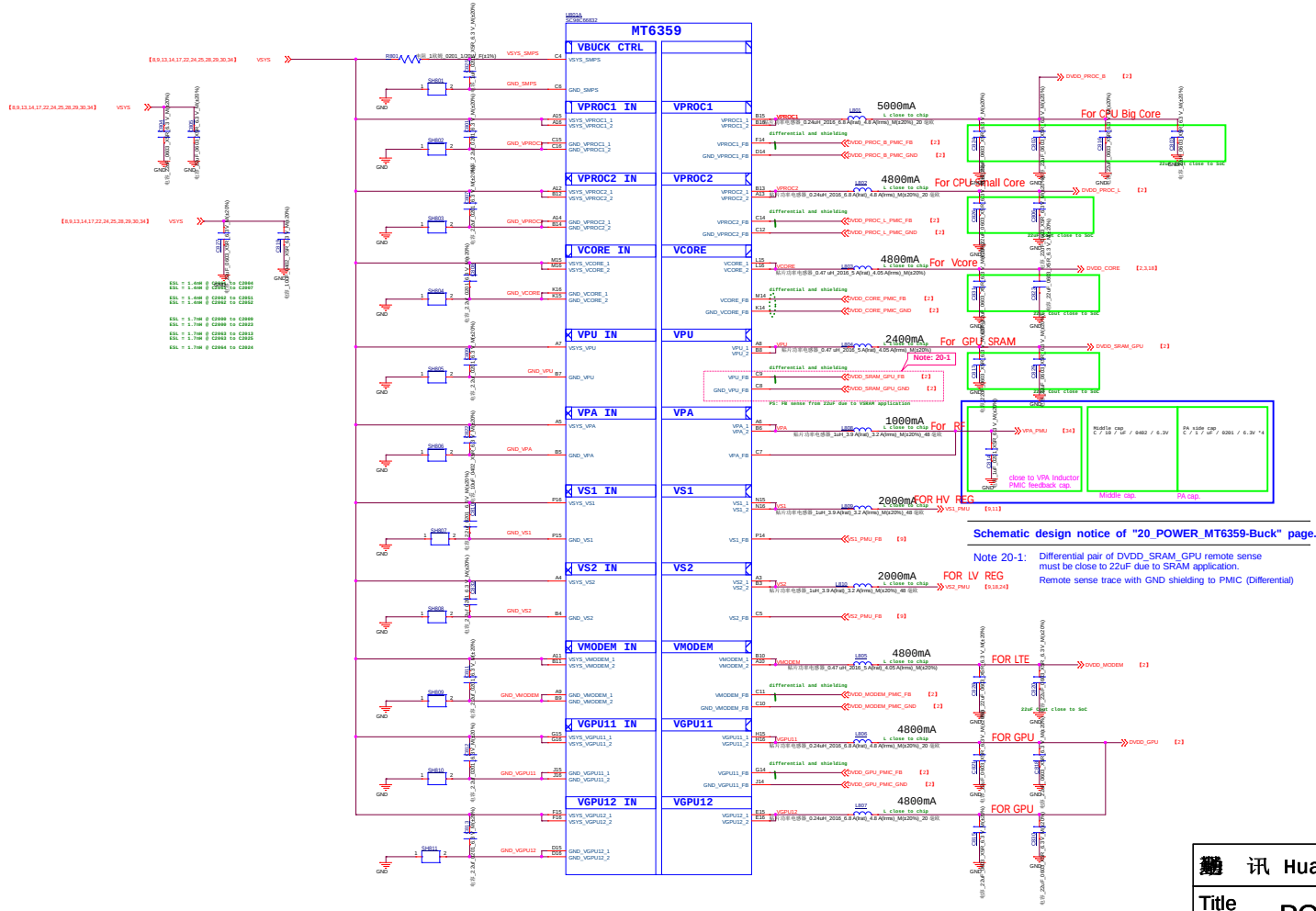
BB NTC thermistor 3~6MM



CHG NTC thermistor 3~5MM



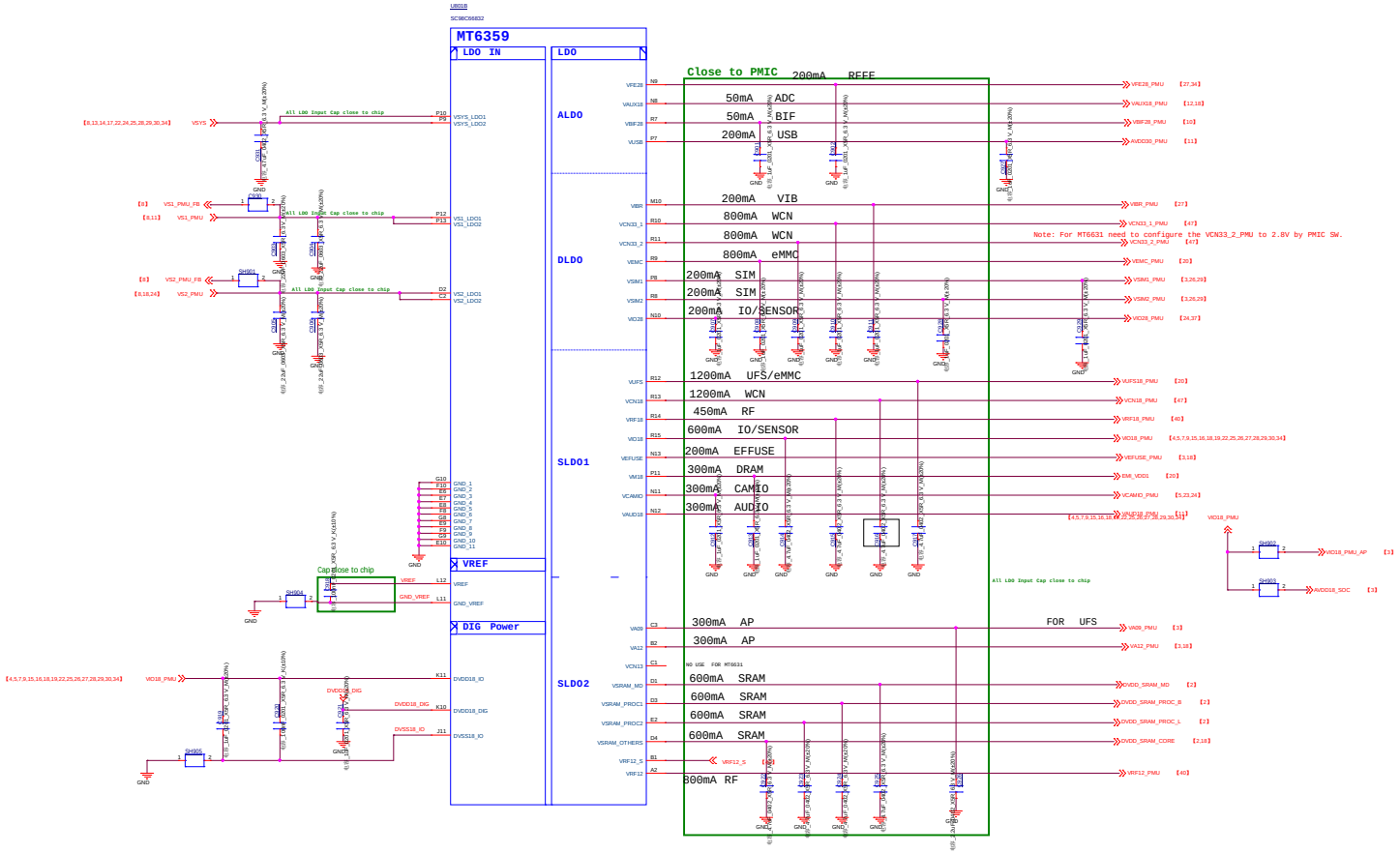
鹭讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	BB_AUXADC_Thermal	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 7 of 99	



Schematic design notice of "20_POWER_MT6359-Buck" page.

Note 20-1: Differential pair of DVDD_SRAM_GPU remote sense must be close to 22uF due to SRAM application.
Remote sense trace with GND shielding to PMIC (Differential)

鹏 讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	POWER_MT6359_Buck	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 8 of 99	



MT6359 LDO output

Input Power	Power Name	Output Voltage (V)	Output Current	Default Voltage
LDO from VSYS	VFE28	2.8	200mA	2.8V
	VXO22	2.24	50mA	2.24V
	VCN28	2.8	50mA	2.8V
	VCAMA	1.8/2.5/2.8	200mA	2.8V
	VAUX18	1.84	20mA	1.8V
	VUSB	3.07	200mA	3.07V
	VBIF28	2.8	50mA	2.8V
	VCN33_1	3.3/3.4/3.5/3.6	800mA	3.5V
	VCN33_2	3.3/3.4/3.5/3.6	800mA	3.5V
	VIBR	1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3	200mA	2.8V
	VIO28	2.8/2.85/2.9/2.95/3.1/3.2/3.3	200mA	2.8V
	VMC	1.86/2.9/3.0/3.3	200mA	3.0V
	VMCH	2.9/3.0/3.3	800mA	3.0V
	VEMC	2.9/3.0/3.3	800mA	3V
	VSIM1	1.7/1.8/1.86/2.76/3.0/3.1	200mA	1.86V
	VSIM2	1.7/1.8/1.86/2.76/3.0/3.1	200mA	1.86V
LDO from VS1	VEFUSE	1.7/1.8/1.84	300mA	1.8V
	VAUD18	1.8	300mA	1.8V
	VRFCK_1	1.6	40mA	1.6V
	VM18	1.8	300mA	1.8V
	VRF18	1.8	450mA	1.8V
	VMIPI	1.71/1.8/1.84	300mA	1.84V
	VCN18	1.8	1200mA	1.8V
	VCAMIO	1.8	300mA	1.8V
	VIO18	1.8	600mA	1.8V
	VUFS	1.86	1200mA	1.86V
LDO from VS2	VRF12	1.2	800mA	1.2V
	VA09	0.9	300mA	0.9
	VA12	1.2	300mA	1.2V
	VSRAM_PROC1	0.6-1.2	600mA	0.9V
	VSRAM_OTHERS	0.6-1.2	600mA	0.9V
	VSRAM_MD	0.6-1.2	600mA	0.9V
	VSRAM_PROC2	0.6-1.2	600mA	0.9V

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	POWER_MT6359_LDO	
Size D	Project Hanoi	Rev V1
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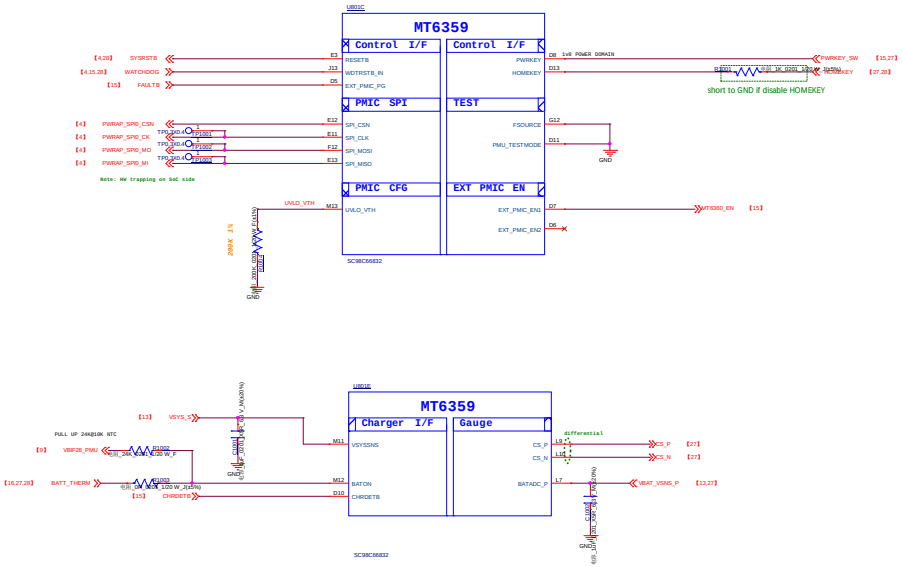
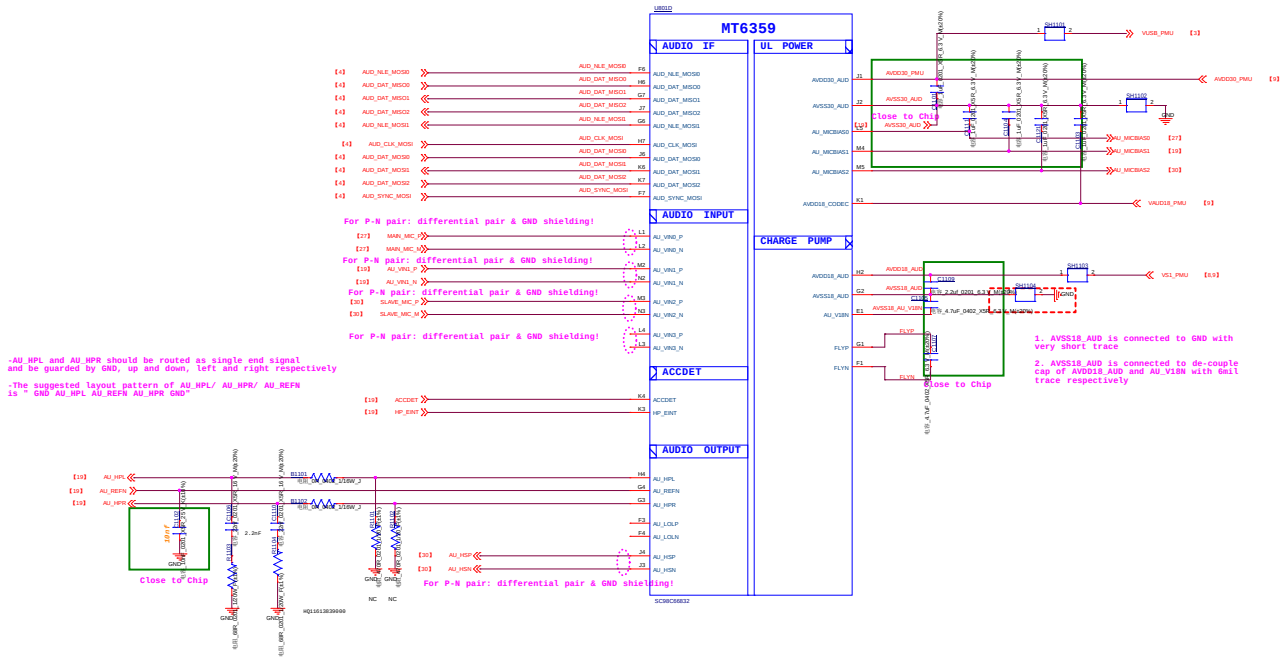
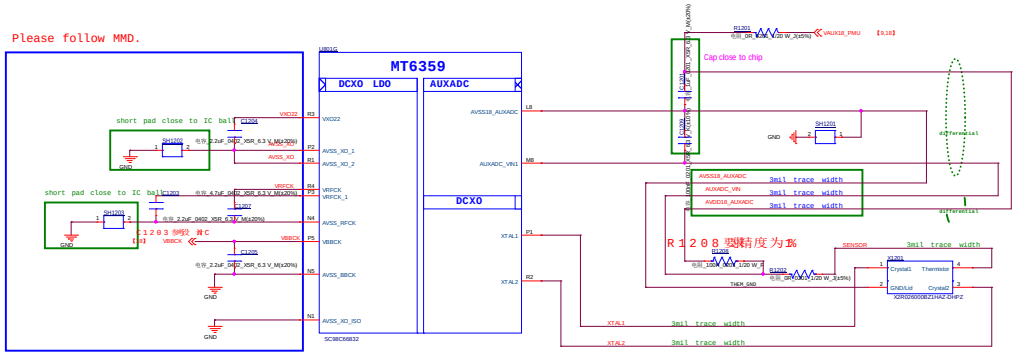


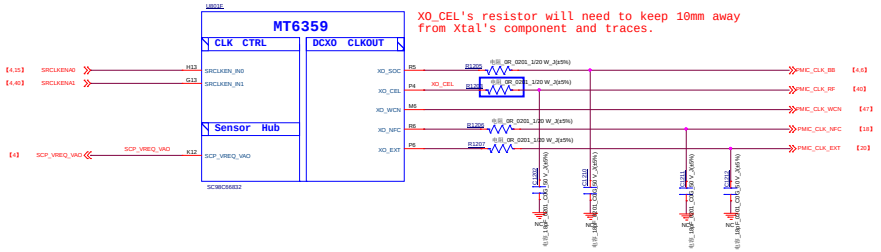
鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	POWER_MT6359_General	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 10 of 99	

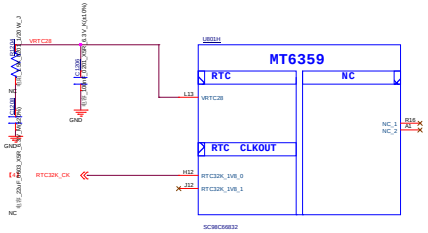


鹏讯 Hua qin Tele com Technol ogy Com.Ltd	
Title	POWER_MT6359_AUDIO
Size D	Project Hanoi
Rev V1	
Date: Wednesday, March 17, 2021	Sheet 11 of 99

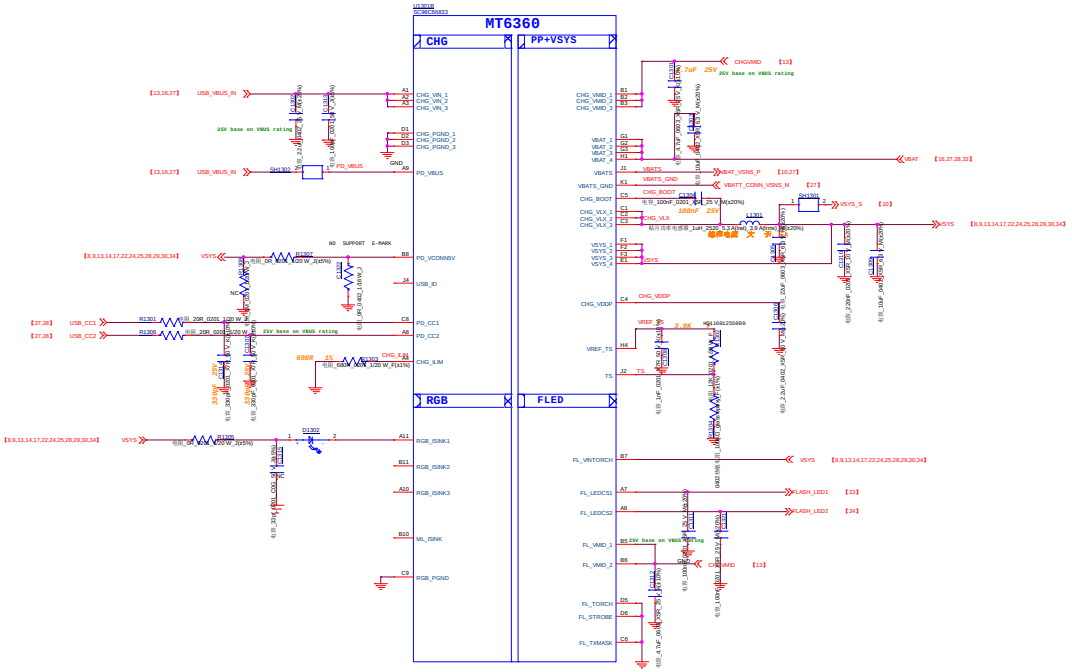


DCXO





鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	POWER_MT6359_Clock	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 12 of 99	



华勤 Hua qin Tele com Technol ogy Com.Ltd		
Title	POWER_MT6360_Charger_PP	
Size D	Project Hanoi	Rev V1
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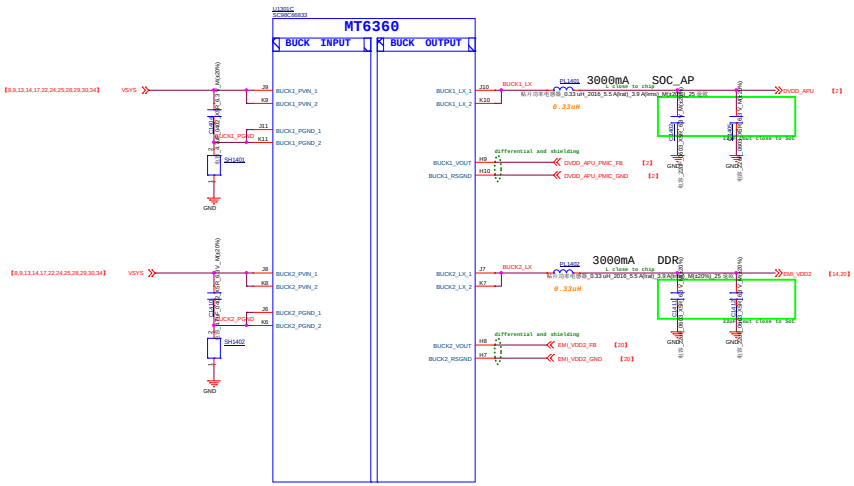

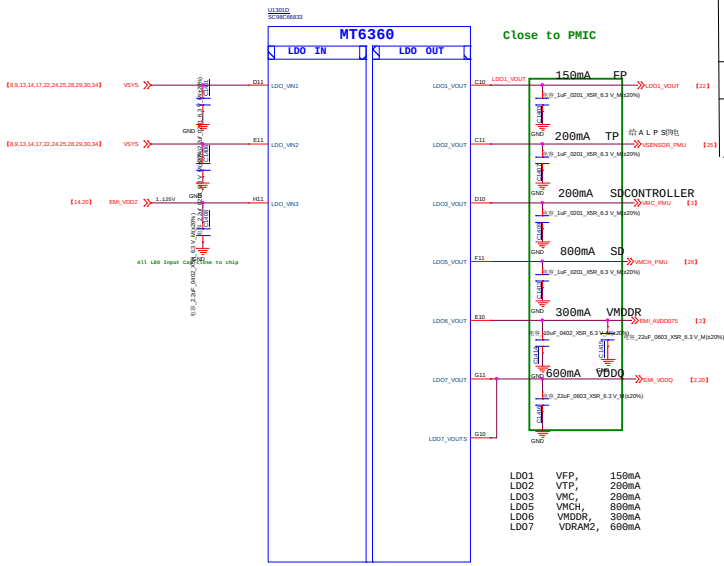

LDO1 VFP, 150mA
LDO2 VTP, 200mA
LDO3 VMC, 200mA
LDO5 VMCH, 800mA
LDO6 VMDDR, 300mA
LDO7 VDRAM2, 600mA

MT6360 LDO output

Input Power	Power Name	Output Voltage (V)	Output Current	Default Voltage
LDO from LDO VIN1	LDO1	1.8~3.3	150mA	1.8V OFF
	LDO2	1.8~3.3	200mA	2.8V OFF
	LDO3	1.8~3.3	200mA	3V OFF
LDO from LDO VIN2	LDO5	2.8~3.3	800mA	3V OFF
LDO from LDO VIN3 LDO VIN2	LDO6	0.75	300mA	0.75 ON
	LDO7	0.6	600mA	0.6 ON

MT6360 BUCK output

Input Power	Power Name	Output Voltage (V)	Output Current	Default Voltage
BUCK from VSYS	BUCK1 (APU)	0.3~1.3V	3A	0.825V on
	BUCK2 (VDRAM1)	0.3~1.3V	3A	1.125V on

IP	Inductance	Isat-max(A)	Item-max(A)
APU	0.33	3.1	2.1
VDRAM1	0.33	4	3

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	POWER_M6360_BUCK_LDO	
Size D	Project Hanoi	Rev V1
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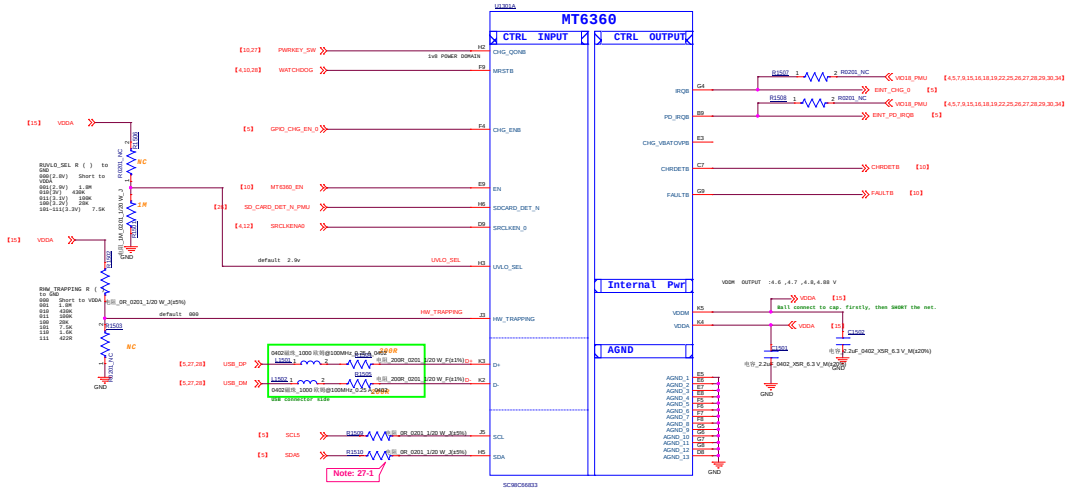


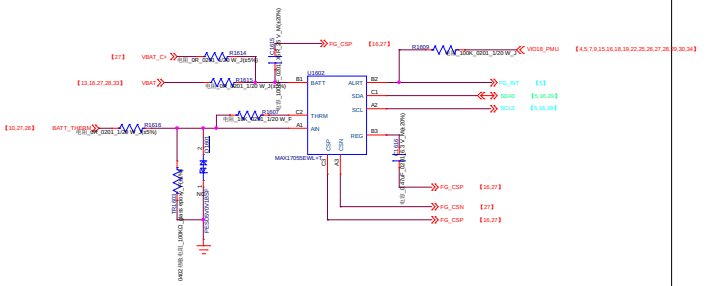
I2C ADDRESS	R/W
PMU	Write:0X68, Read:0X69
PMIC	Write:0X34, Read:0X35
LDO	Write:0XC8, Read:0XC9
USB PD	Write:0X9C, Read:0X9D

Schematic design notice of "27_POWER_MT6360_General" page:

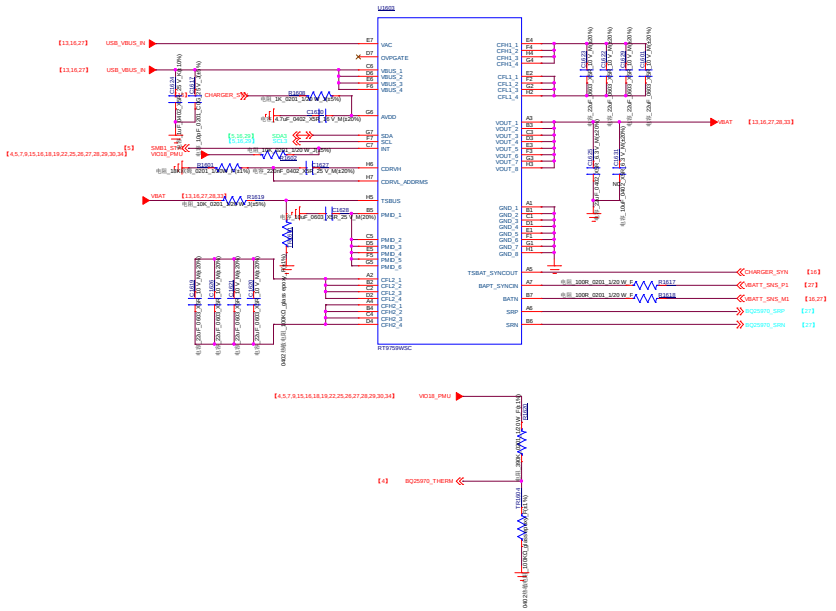
Note 27-1: To optimize driving and PCB routing , it is recommended to reserve R for BOM fine tuning.
The R vaule and rule refer to MT6360 desing notice.

鹏 讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	POWER_M6360_General	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 15 of 99	

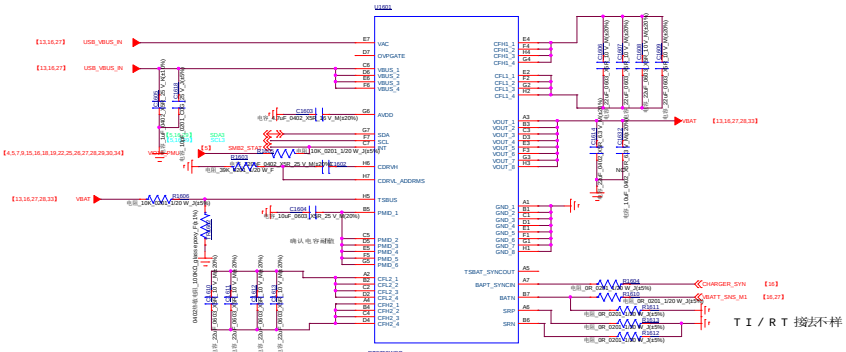
电量计



Master

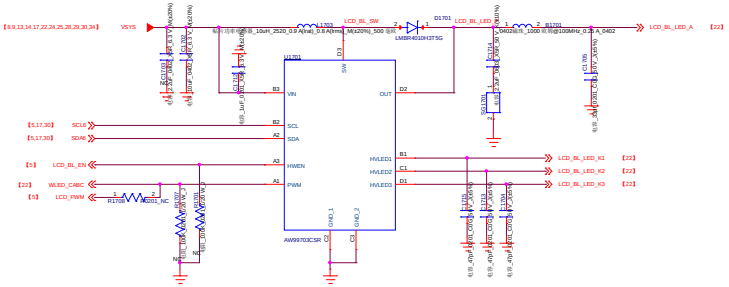


Slave

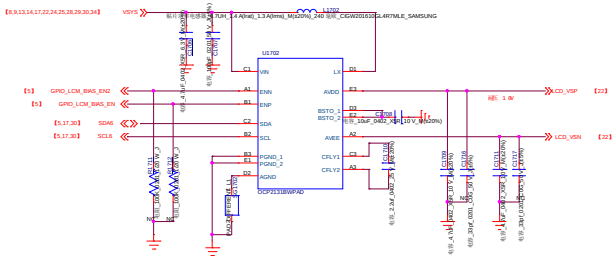


T I / R T 摸去不样

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	PM7150L LDO	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 16 of 99	

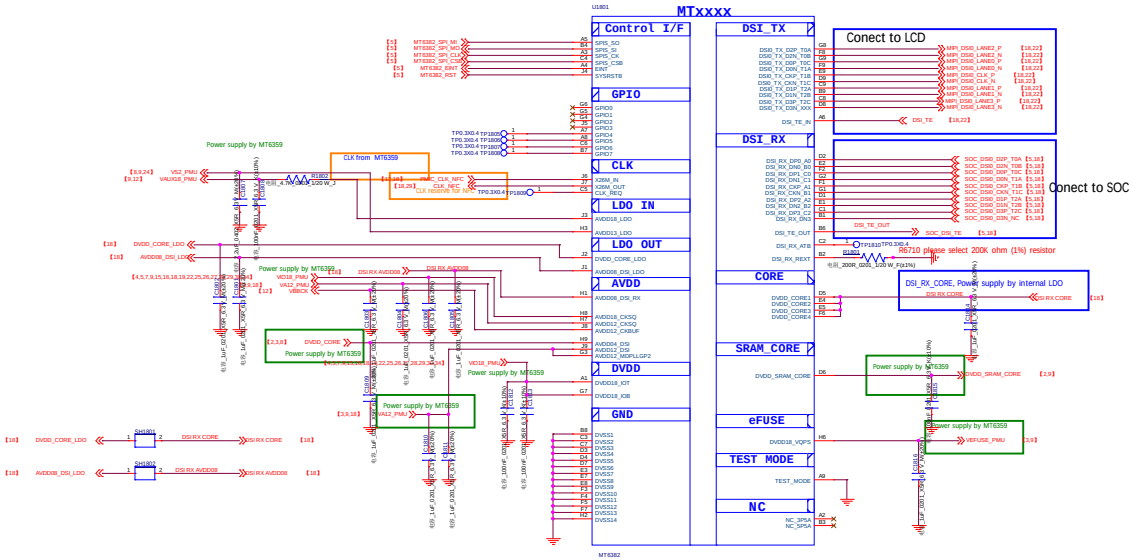


OCP2131 HQ11152662000 /TPS65132 HQ11140016000



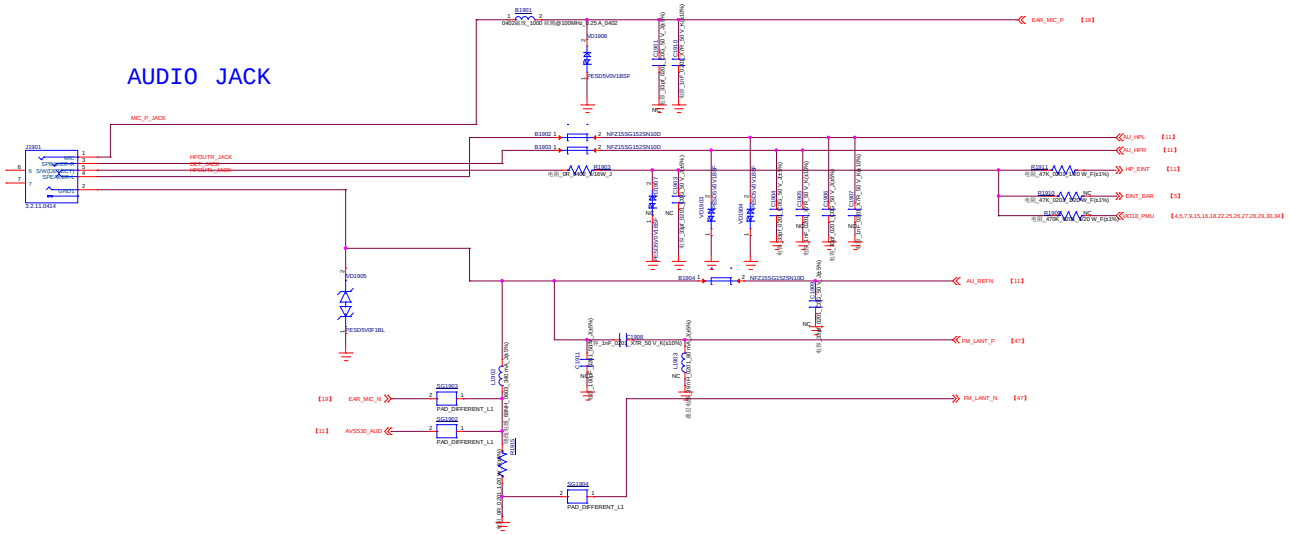
I2C Address (R:0x7D;W:0x7C) SM5109

华勤 Hua qin Tele com Technol ogy Com.Ltd		
Title	LCD Display	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 17 of 99	



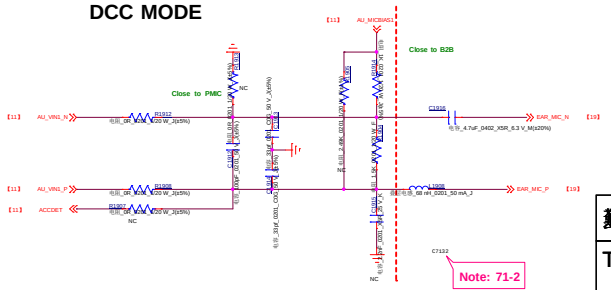
鹏 讯 Hua qin Tele com Technol ogy Com.Ltd	
Title	WCD9370 Codec
Size D	Project Hanoi
Rev V1	
Date: Friday, April 02, 2021	Sheet 18 of 99

AUDIO JACK

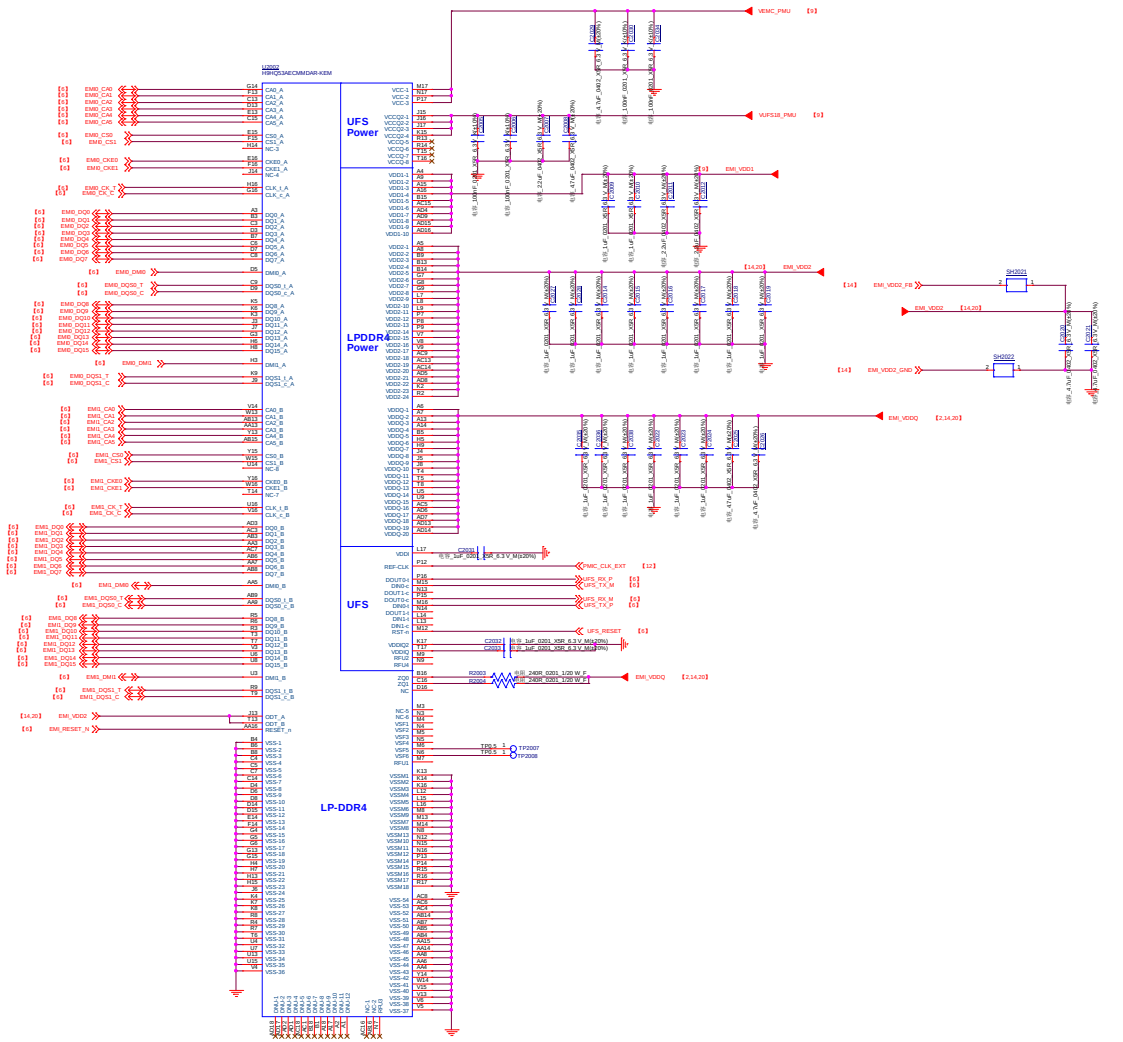


Earphone MICPHONE

DCC MODE



鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	AUDIO JACK	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 19 of 99	



鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	uMCP	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 20 of 99	

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title BLANK		
Size D	Project Hanoi	Rev V1
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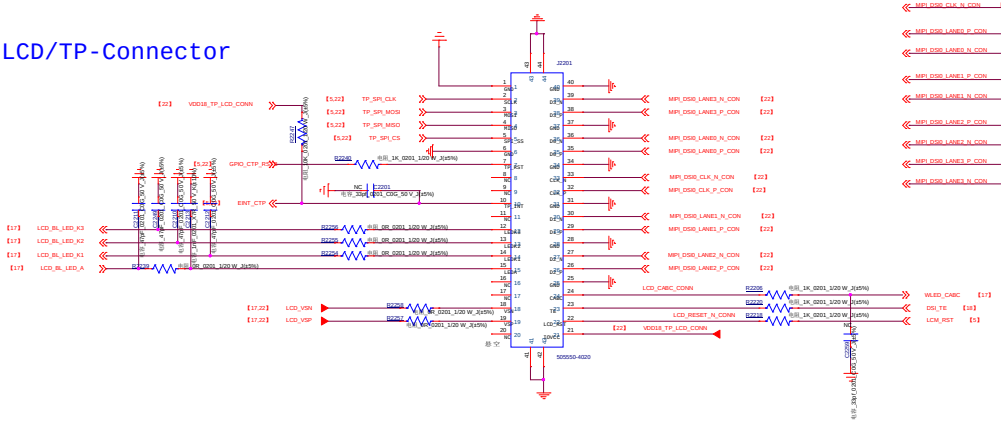
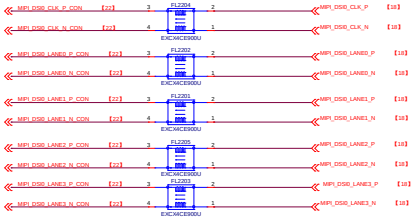
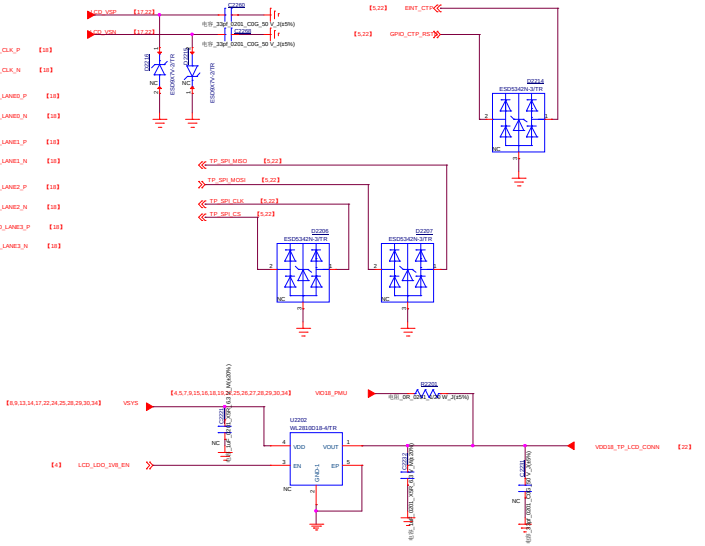
LCD/TP

LCD/TP-Connector

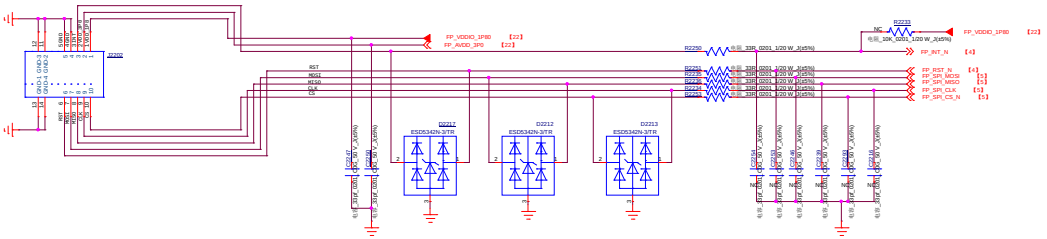


LCD MIPI Common Mode Filter



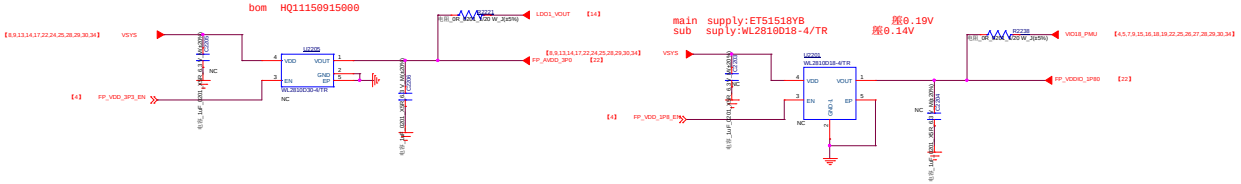


FPS



LDO

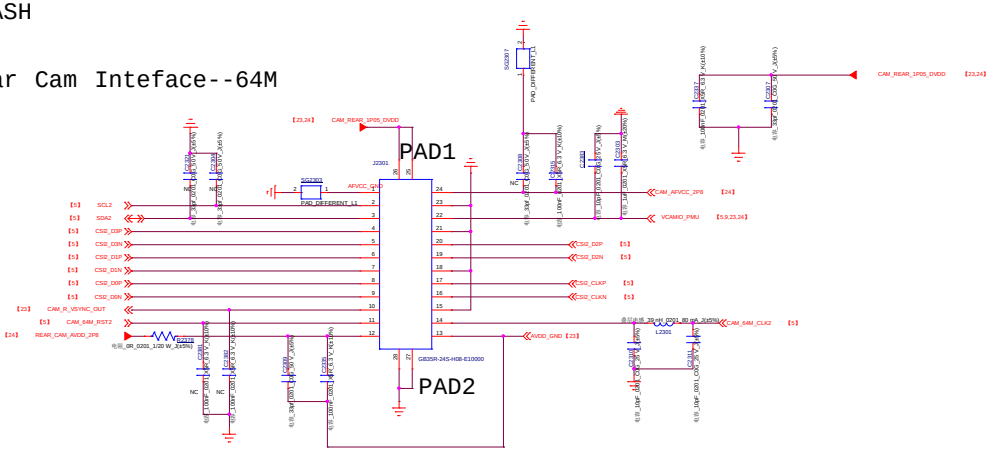
bom HQ11150915000



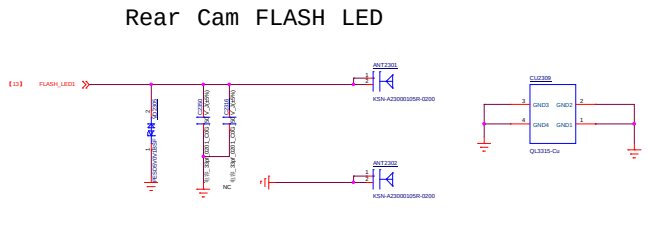
华勤 Hua qin Tele com Technol ogy Com.Ltd		
Title	LCD/TP/FPS	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 22 of 99	

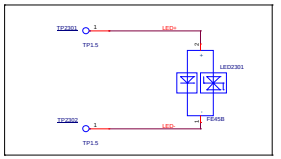
REAR_CAM/FLASH

Rear Cam Inteface--64M



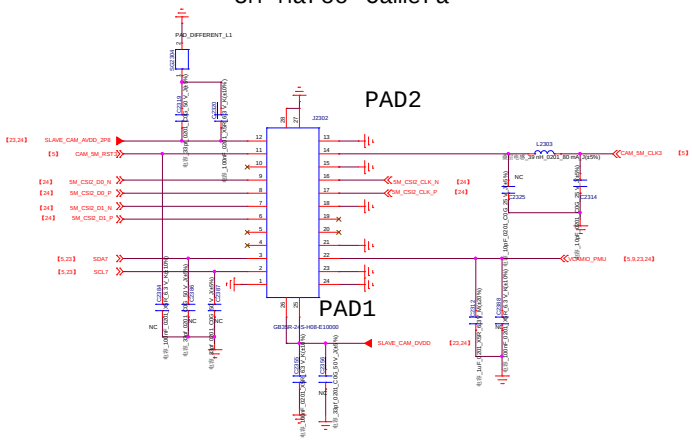
Rear Cam FLASH LED



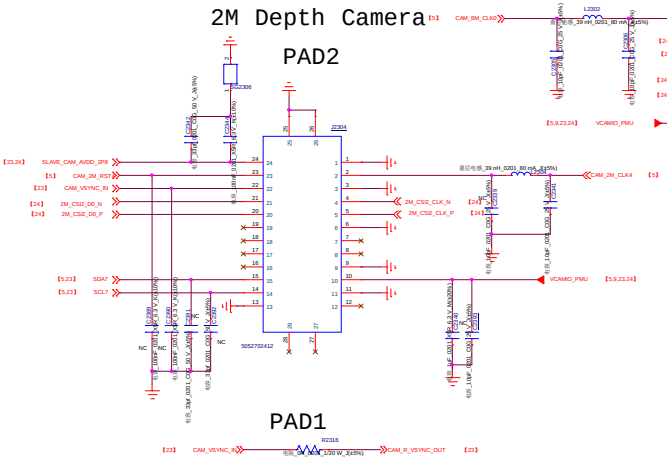


后闪需要放在闪 光灯小板 上

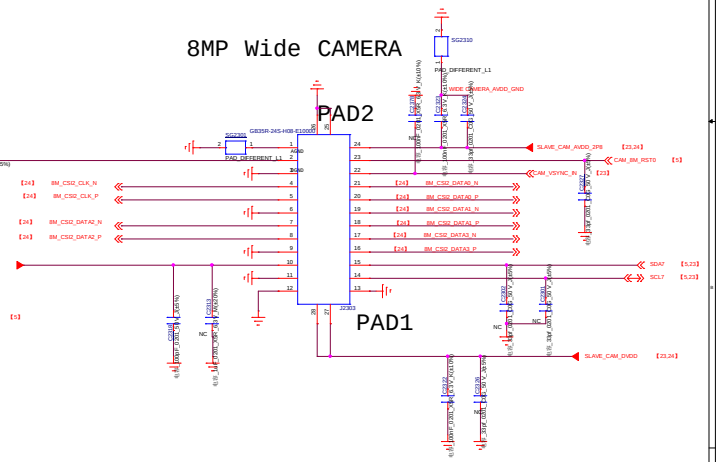
5M Marco Camera



2M Depth Camera



8MP Wide CAMERA

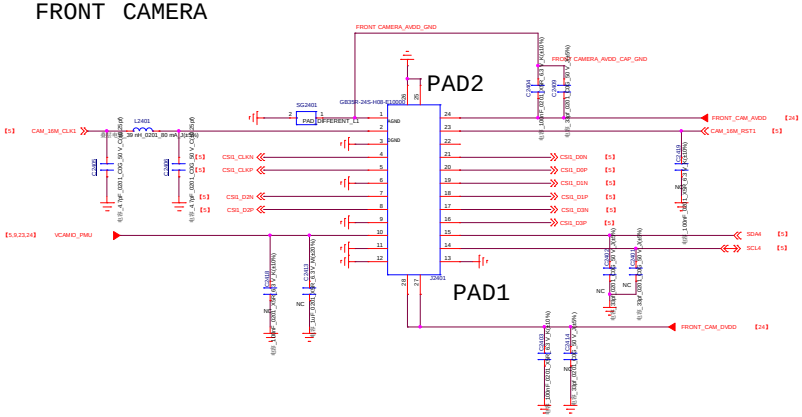


翰讯 Hua qin Tele com Technol ogy Com.td		
Title	REAR CAMERA	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 23 of 99	

FRONT_CAM/CAM_POWER

OV12A10-GASA-Front Cam I2C Adress:0x10 (Write:0x20 Read:0x21)

FRONT CAMERA



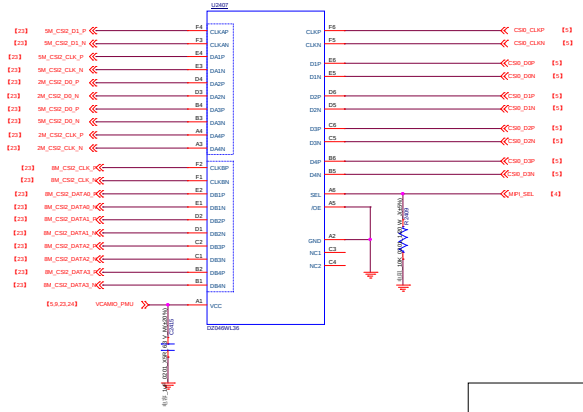
MIPI SWITCH

SEL	Control Pin	SEL=0	CLKP/N=CLKAP/N, DnP/N=DAnP/N
		SEL=1	CLKP/N=CLKBP/N, DnP/N=DBnP/N

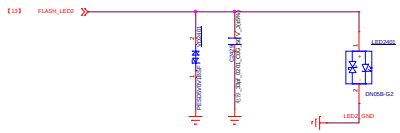
5M CAM

2M CAM

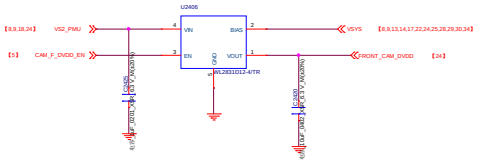
8M CAM



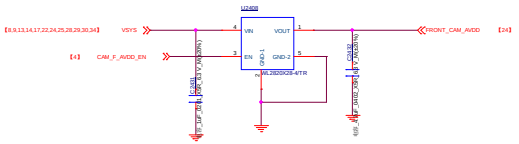
Front Cam FLASH LED



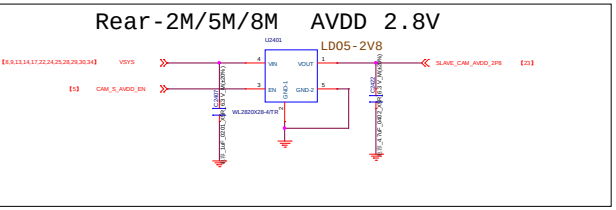
16M Front DVDD 1.2V



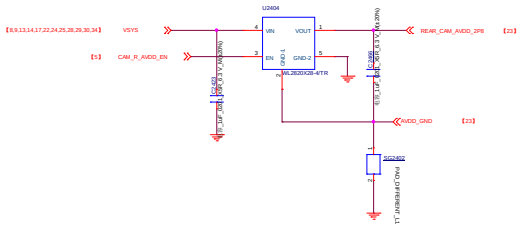
Front AVDD 2.8V



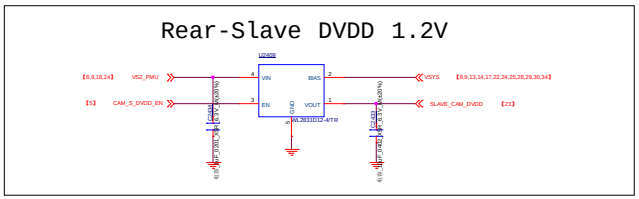
Rear-2M/5M/8M AVDD 2.8V



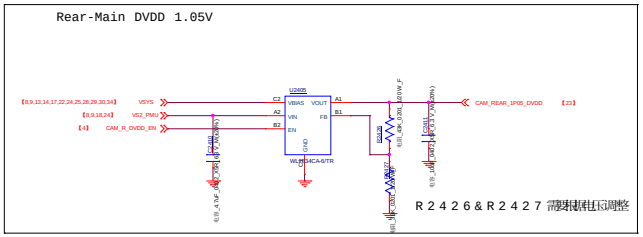
Rear-Main AVDD 2.8V



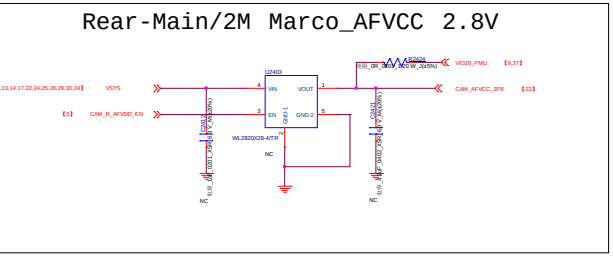
Rear-Slave DVDD 1.2V



Rear-Main DVDD 1.05V

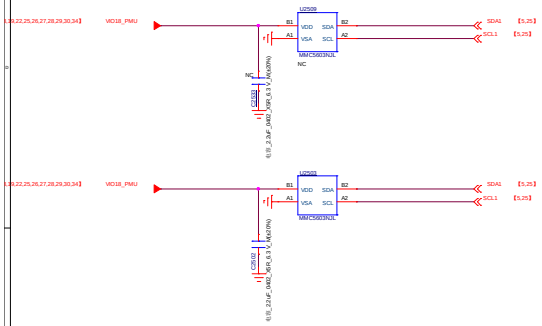


Rear-Main/2M Marco_AFVCC 2.8V

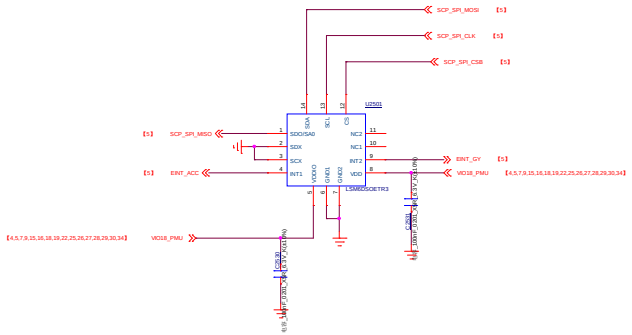


深圳市华秦讯 Hua qin Tele com Technol ogy Com.Ltd			
Title	FRONT CAMERA		
Size D	Project Hanoi		Rev V1
Date: Wednesday, March 17, 2021		Sheet 24 of 99	

eCOMPASS

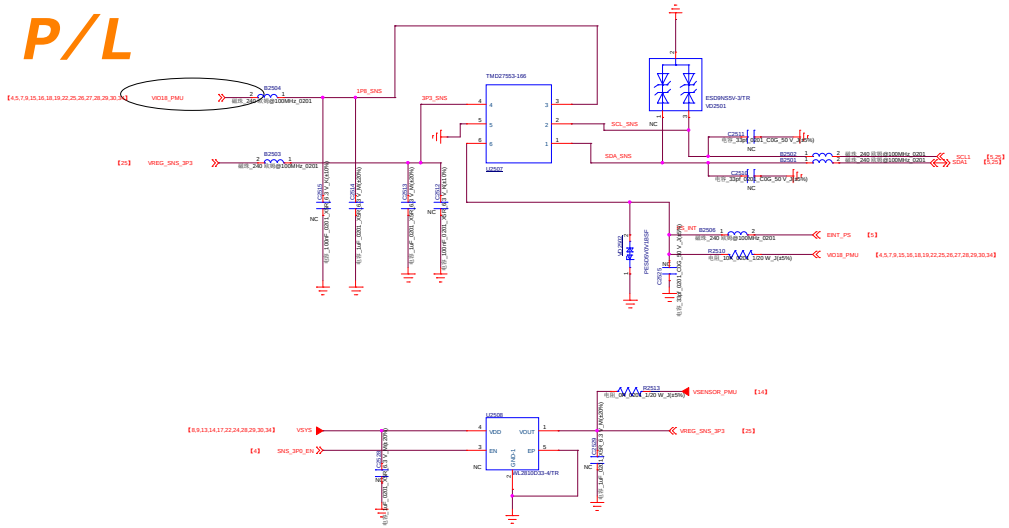


A+G-sensor



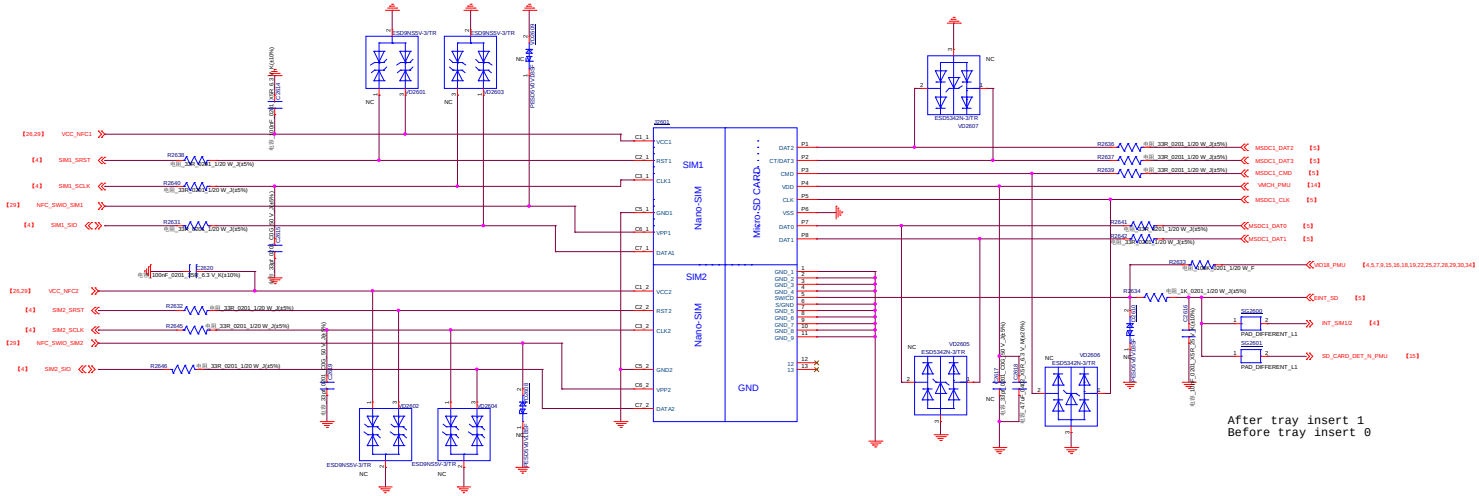
G-sensor

P/L

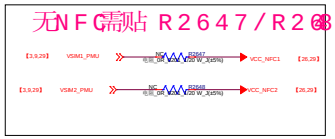


鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	Sensor	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 25 of 99	

卡 座 T Flash card



无NFC需贴 R2647/R2648

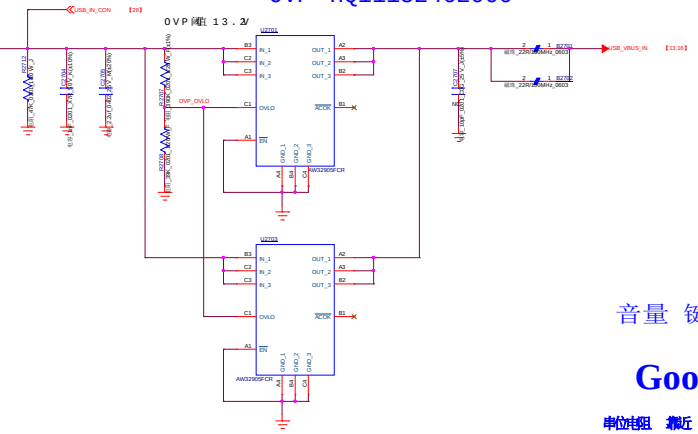


鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	SIM/SD	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 26 of 99	

KEY_LINK_BATT

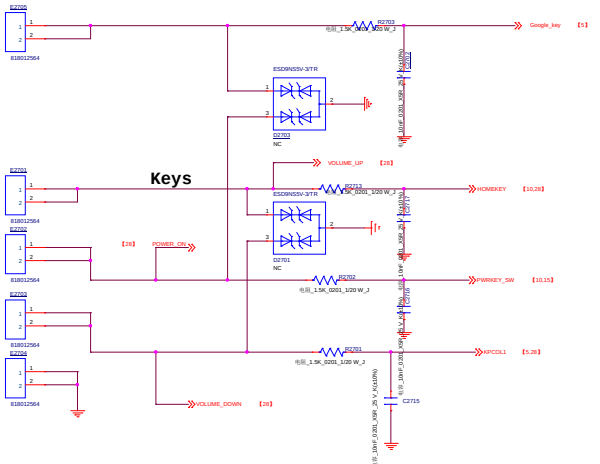
OVP set 13.2V =1.2*(1+R2707/R2708)

OVP HQ11152462000



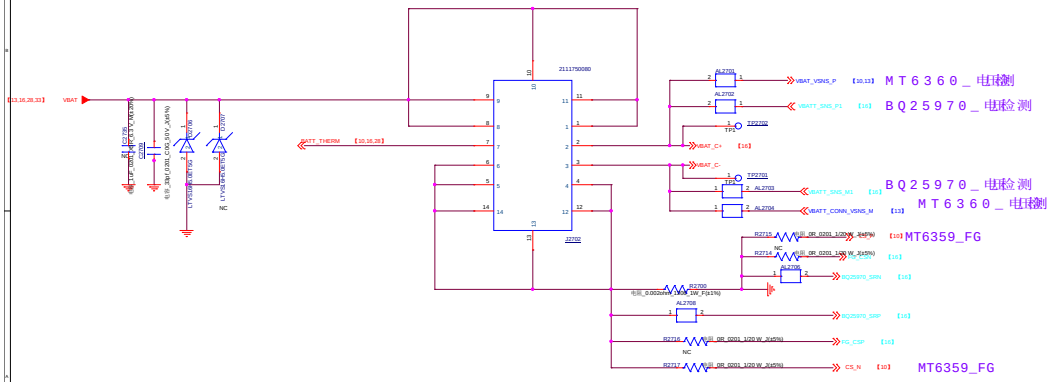
音量 键&开关机键

Google key



Battery Connector

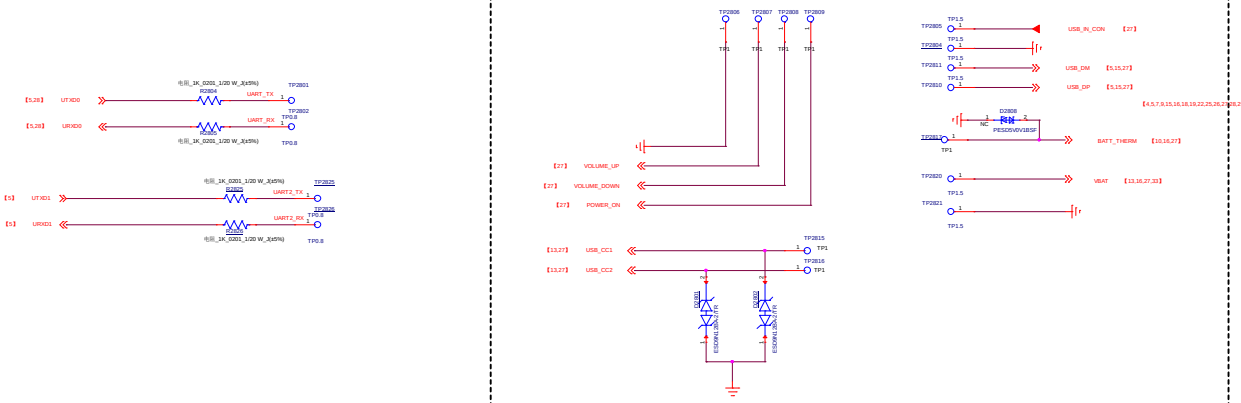
Connector HQ11152462000



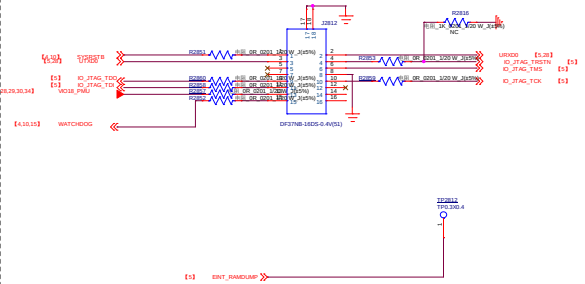
华勤通讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	LINK/KEY/BATT	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 27 of 99	

SYSTEM TEST point

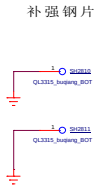
PCBA AUTOMATIC TEST point



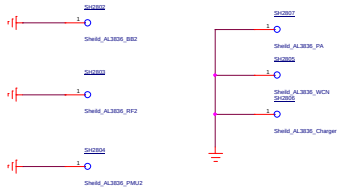
JTAG CONNECTOR



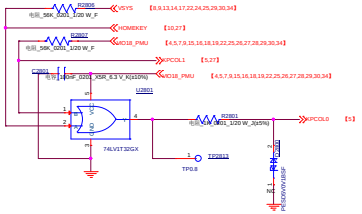
接地弹片



Shield



Force USB boot



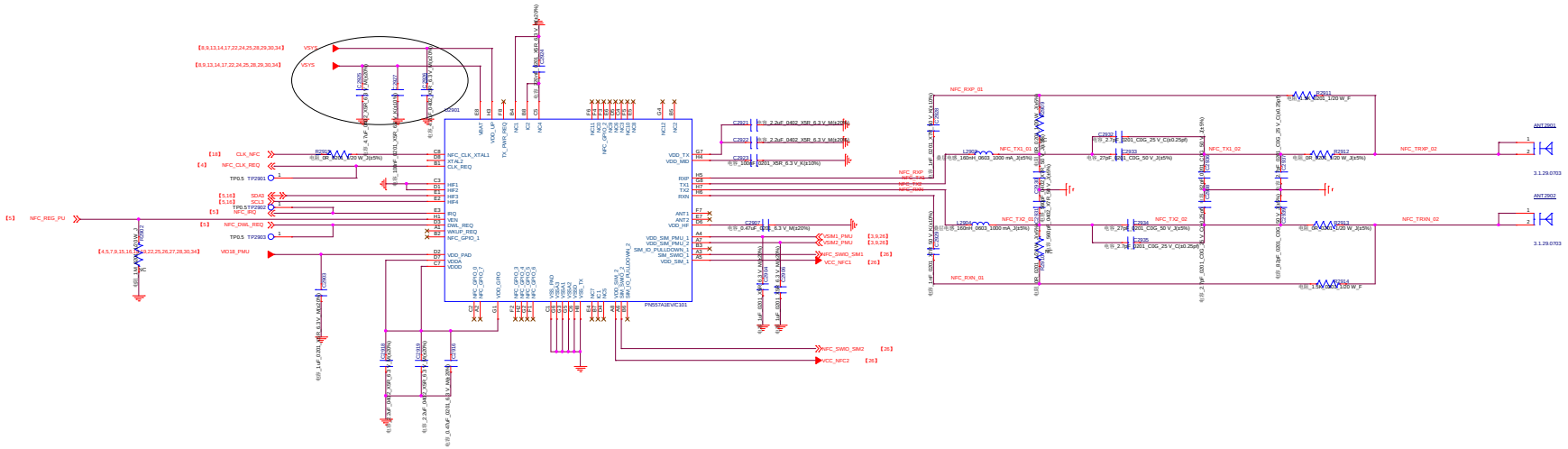
power key +volup to enter 9008 mode

鹏讯 Hua qin Tele com Technol ogy Com.Ltd		
Title	Test Points/Shield	
Size D	Project Hanoi	Rev V1
Date: Wednesday, March 17, 2021	Sheet 28 of 99	

NFC

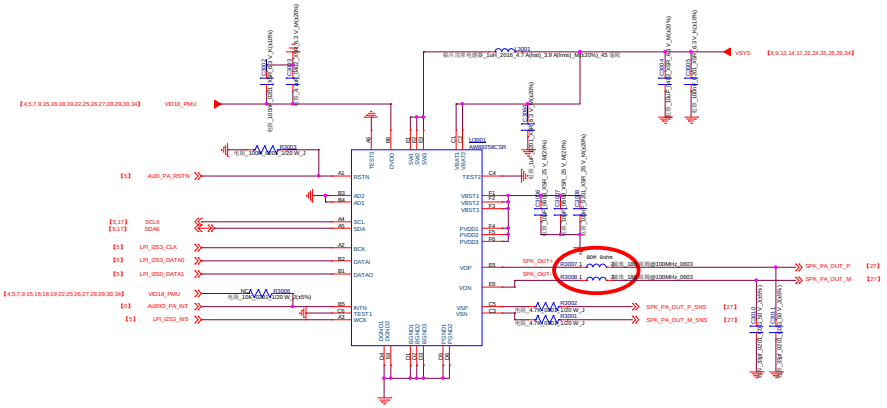
REF 3201-3299

PN557 I2C Adress:0x28 (Write:0x50 Read:0x51)



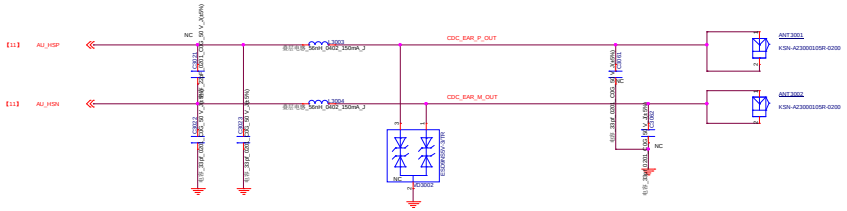
鹏讯 Hua qin Tele com Technol ogy Com.Ltd			
Title	NFC		
Size D	Project Hanoi		Rev V1
Date: Wednesday, March 17, 2021		Sheet 29 of 99	

SmartPA

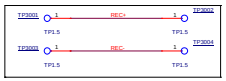


AW88258 的 IIC 地址原理图上将 A0 和 A1 都接地地址为 0x74

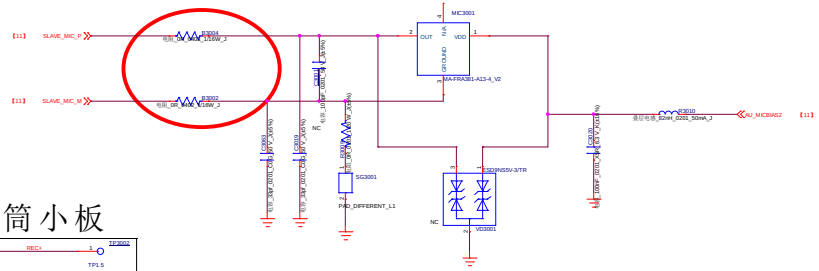
RECIVER



听筒小板



Slave MIC



Company: Huaqin	
Block Title	AUDIO_MIC_RCV_SPK
Project	Hanoi
Rev	V1
Date:	Wednesday, March 27, 2024 Sheet 30 of 99

深圳市华秦电子技术有限公司 Shenzhen Hua qin Tele com Technol ogy Com.,Ltd		
Title Hanoi		
Size D	Project	Rev V1
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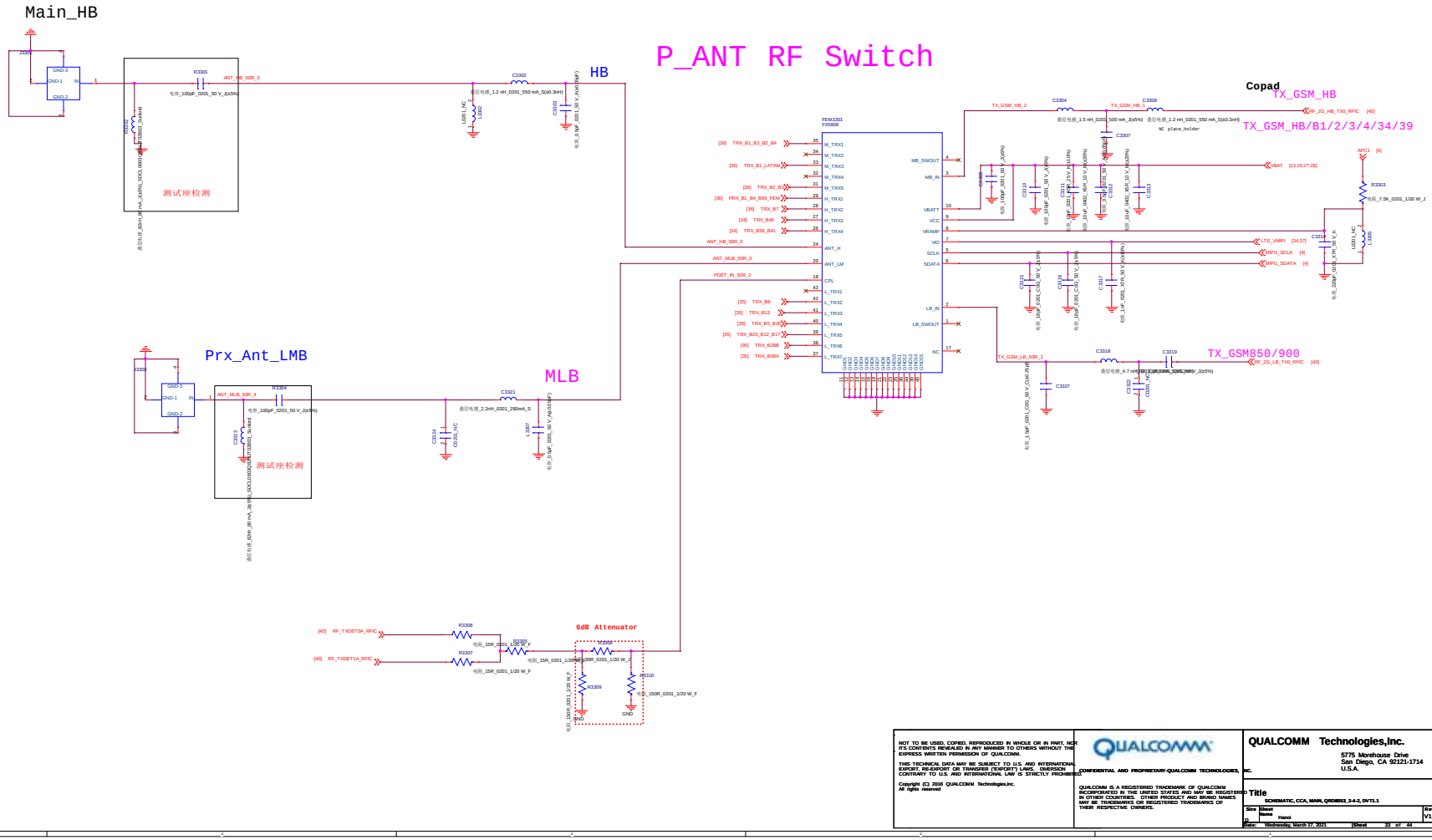
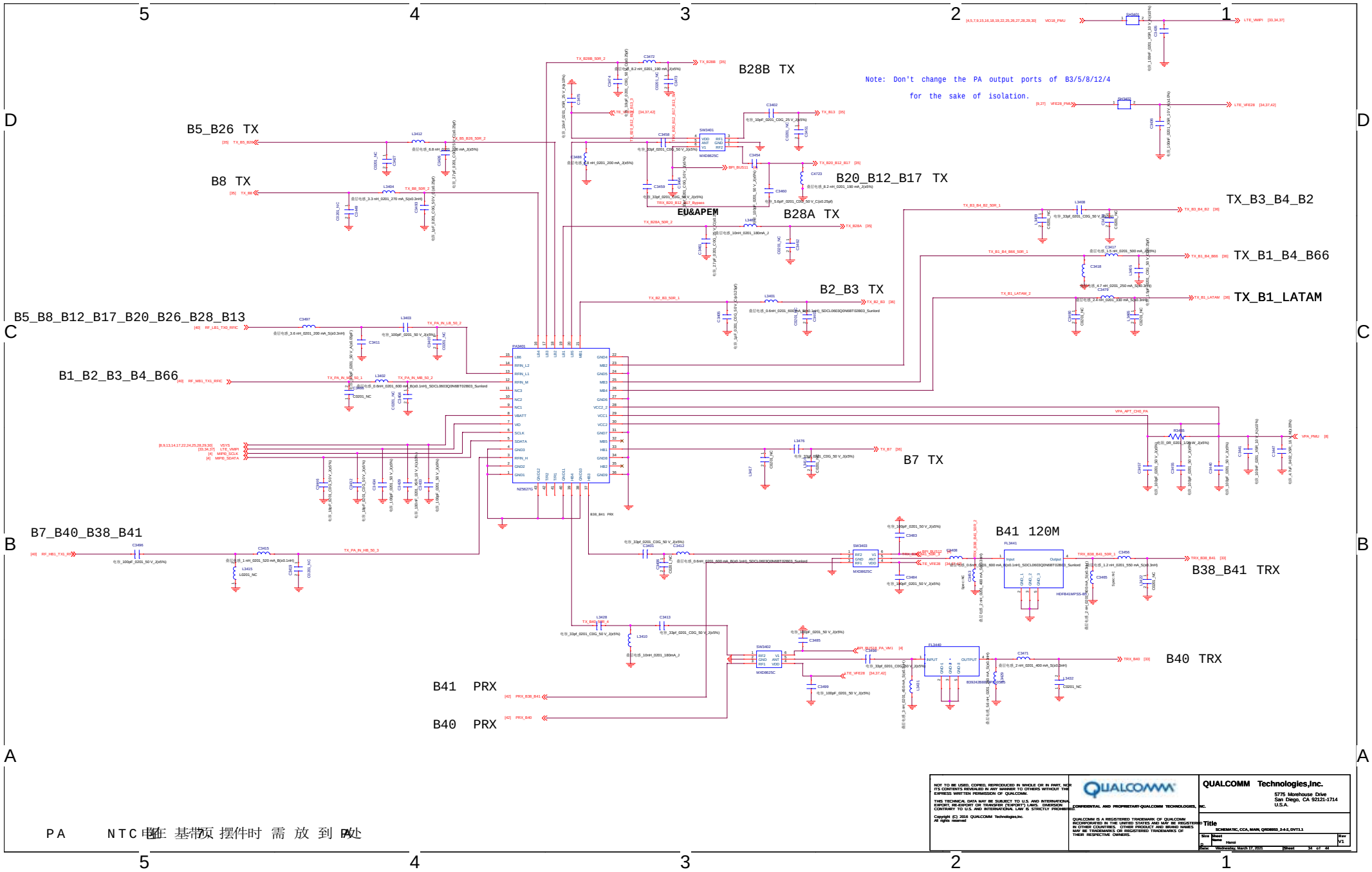
5 4 3 2 1

D C B A

Company: Huaqin	
Block Title: AUDIO_MIC_RCV_SPK	
Project: Hanoi	Rev: V1
Date: Wednesday, March 27, 2013	Sheet: 32 of 44

PRIMARY_ANTENNA





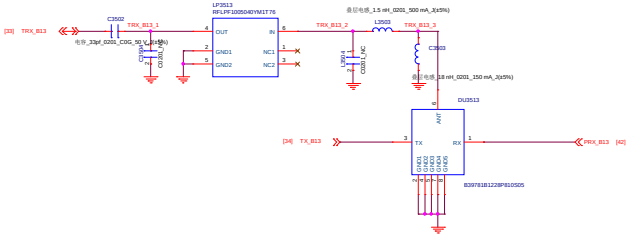
QUALCOMM Technologies,Inc.
5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title
SCHEMATIC, CCA, MAIN, QRD8953_2-4-2, DVT1.1

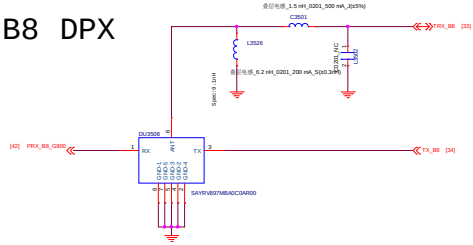
Size	Sheet Name	Rev
D	Hanxi	V1

Date: Wednesday, March 17, 2021 | Sheet 34 of 44

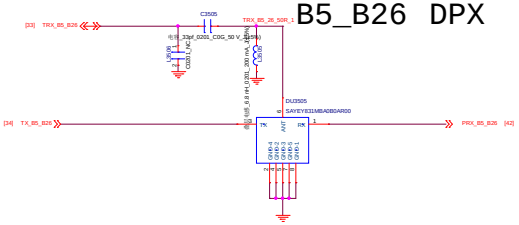
B13 DPX



B8 DPX

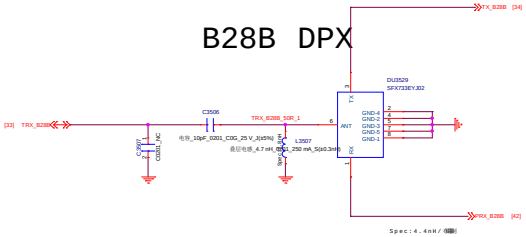


B5_B26 DPX



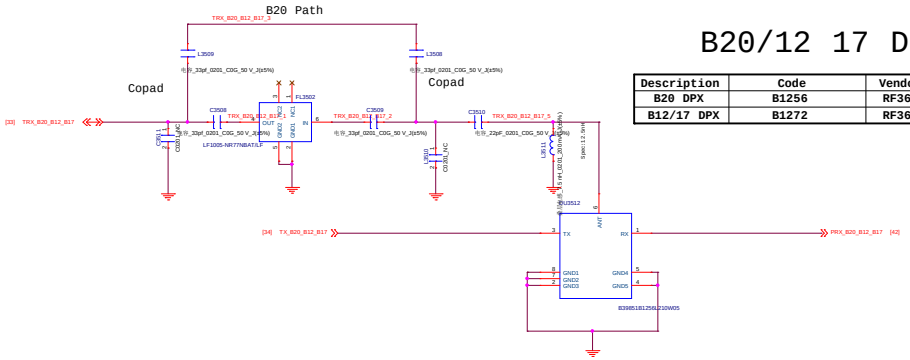
Description	Code	Vendor	SKU
B26 DPX	SAYEY831MBA0B0AR00	MURATA	Europe+APEM
B5 DPX	SFX836EYJ02	wisol	LATAM&Brazil

B28B DPX



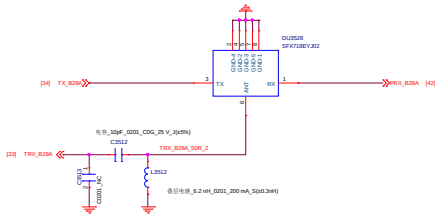
B20 Path

B20/12 17 DPX



Description	Code	Vendor	SKU
B20 DPX	B1256	RF360	Europe+APEM
B12/17 DPX	B1272	RF360	LATAM&Brazil

B28A DPX



QUALCOMM Technologies,Inc.
5775 Morehouse Drive
San Diego, CA 92121-1714
U.S.A.

Title
SCHEMATIC, CCA, MAIN, QRD8853_2-4-2, DVT1.1

Size: D | Sheet Name: Hanoi | Rev: V1

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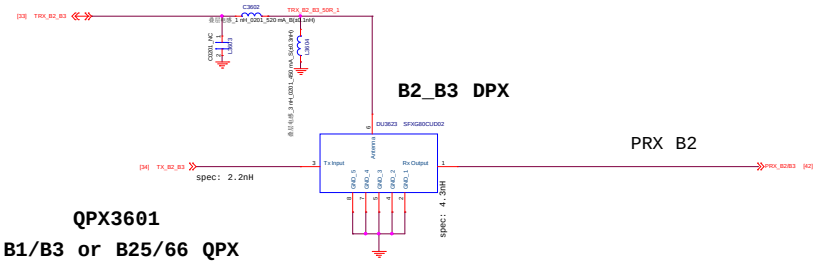
DU3602

Description	Code	Vendor	SKU
B2 Duplexer	SFXG80CUD02	wisol	Europe+JANZ+CA
B3 Duplexer(1814)	SAYEY1G74BC0B0A	MURATA	Latam+CA



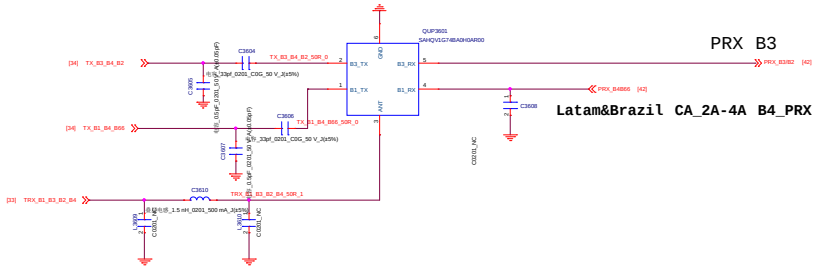
B2_B3 DPX

PRX B2

QPX3601

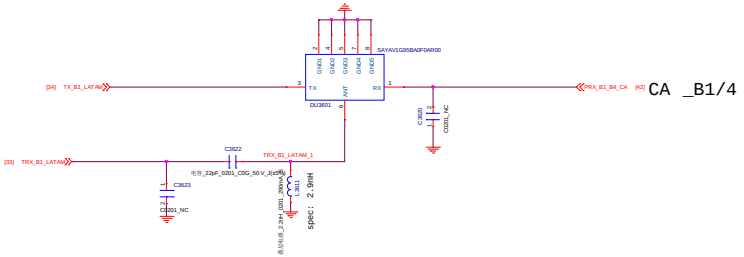
B1/B3 or B25/66 QPX

Description	Code	Vendor	SKU
B1/3 Quplexer	SAHQV1G74BA0H0AR00	MURATA	Europe+JANZ+CA
B25+66 Quplexer	B8932	RF360	Latam+CA



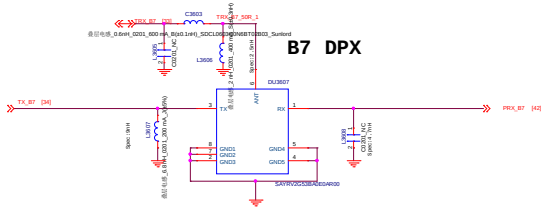
PRX B3

Latam&Brazil CA_2A-4A B4_PRX



CA _B1/4

B1 DPX_LATAM_Only_(1612)



B7 DPX

FL3604

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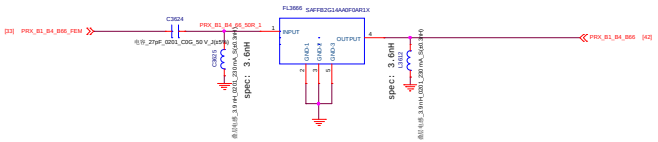
B66 PRX SAW	SAFFB2G15AA0F0A	MURATA	Latam+CA

PRX_B1_B4_B66



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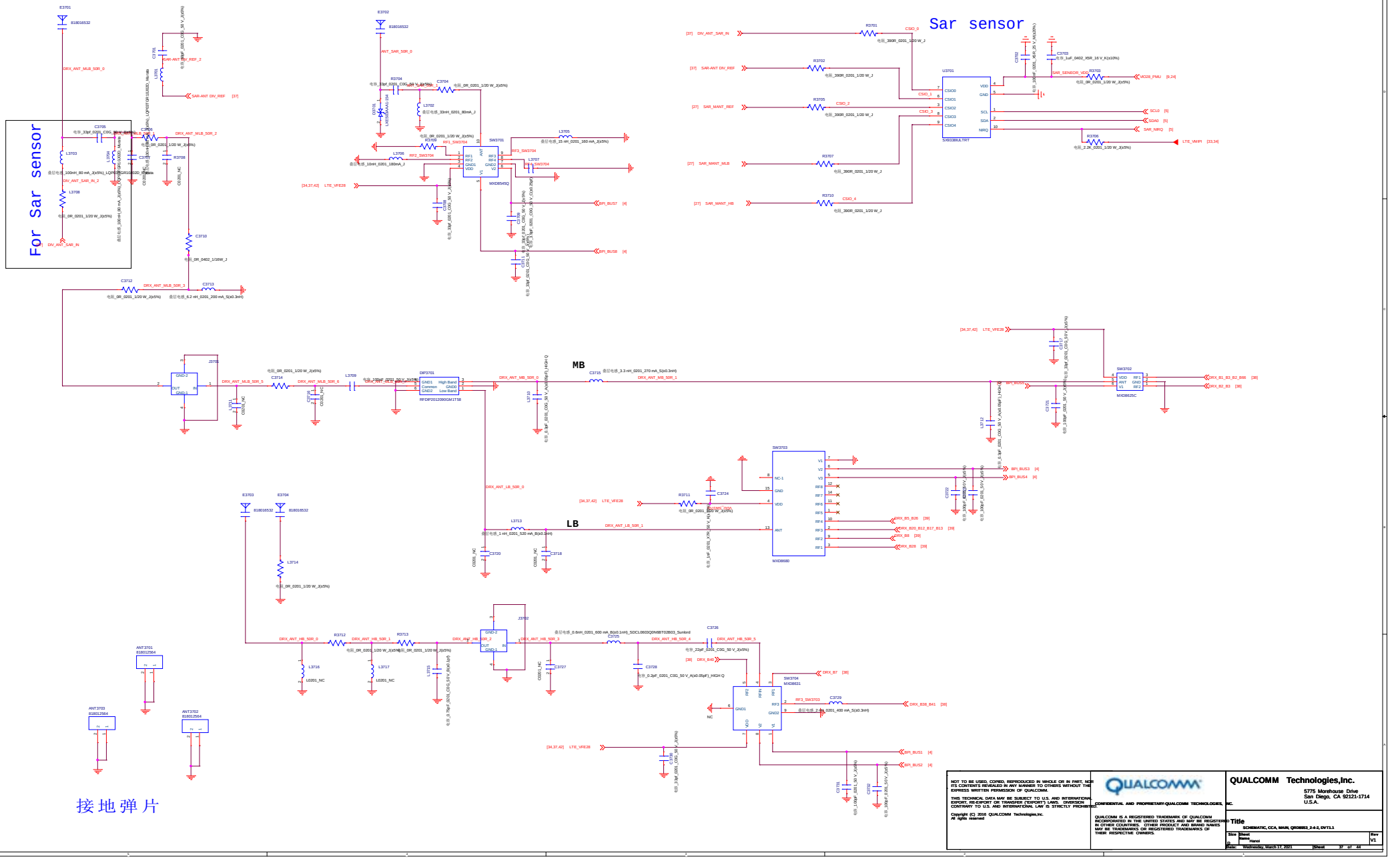

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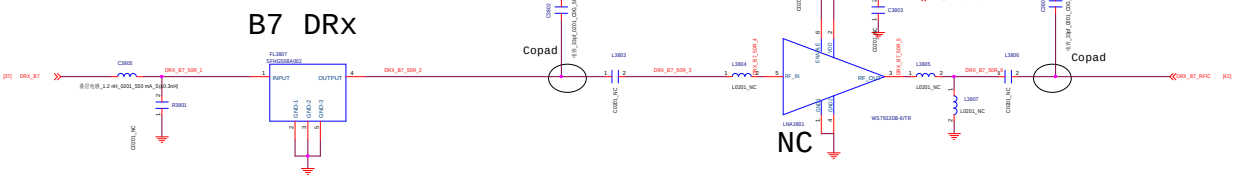
B7 DRx



B2 DRx

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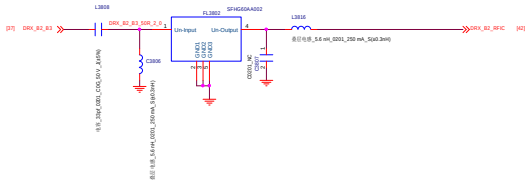
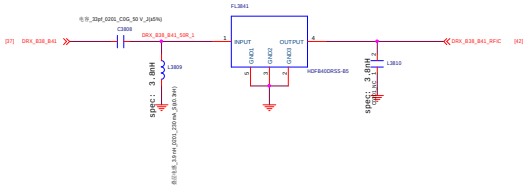
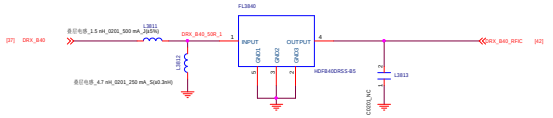
B3 SAW	SFHG42AA002	Wisol	LATAM + CA



B38/41 DRx



DRX_B40



B1/3

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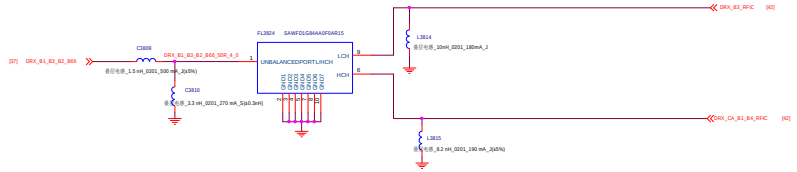
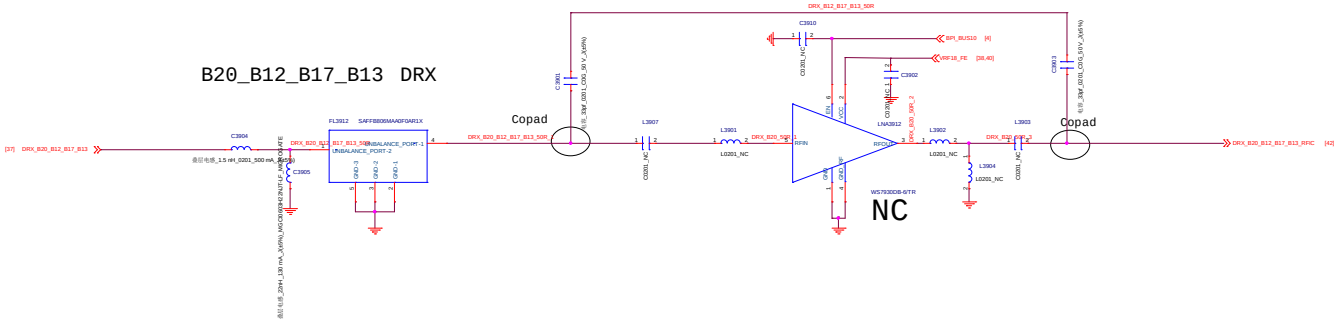
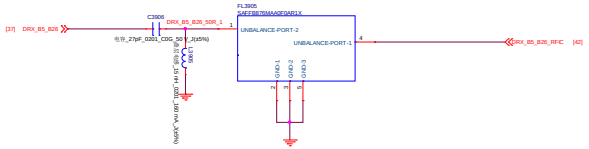


B20_B12_B17_B13 DRX



B5_B26 DRX



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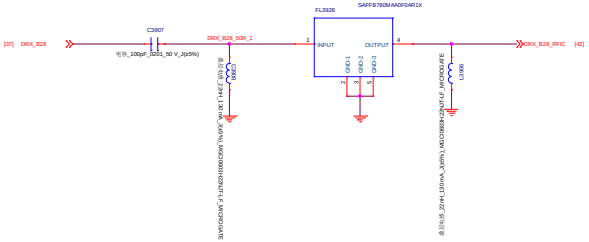
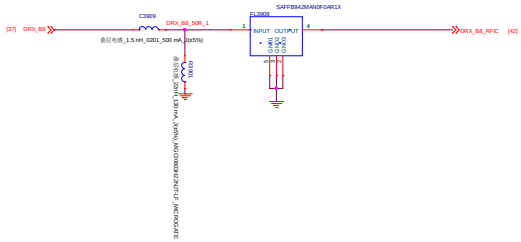
B28_DRX



B8 DRX



DRX LB

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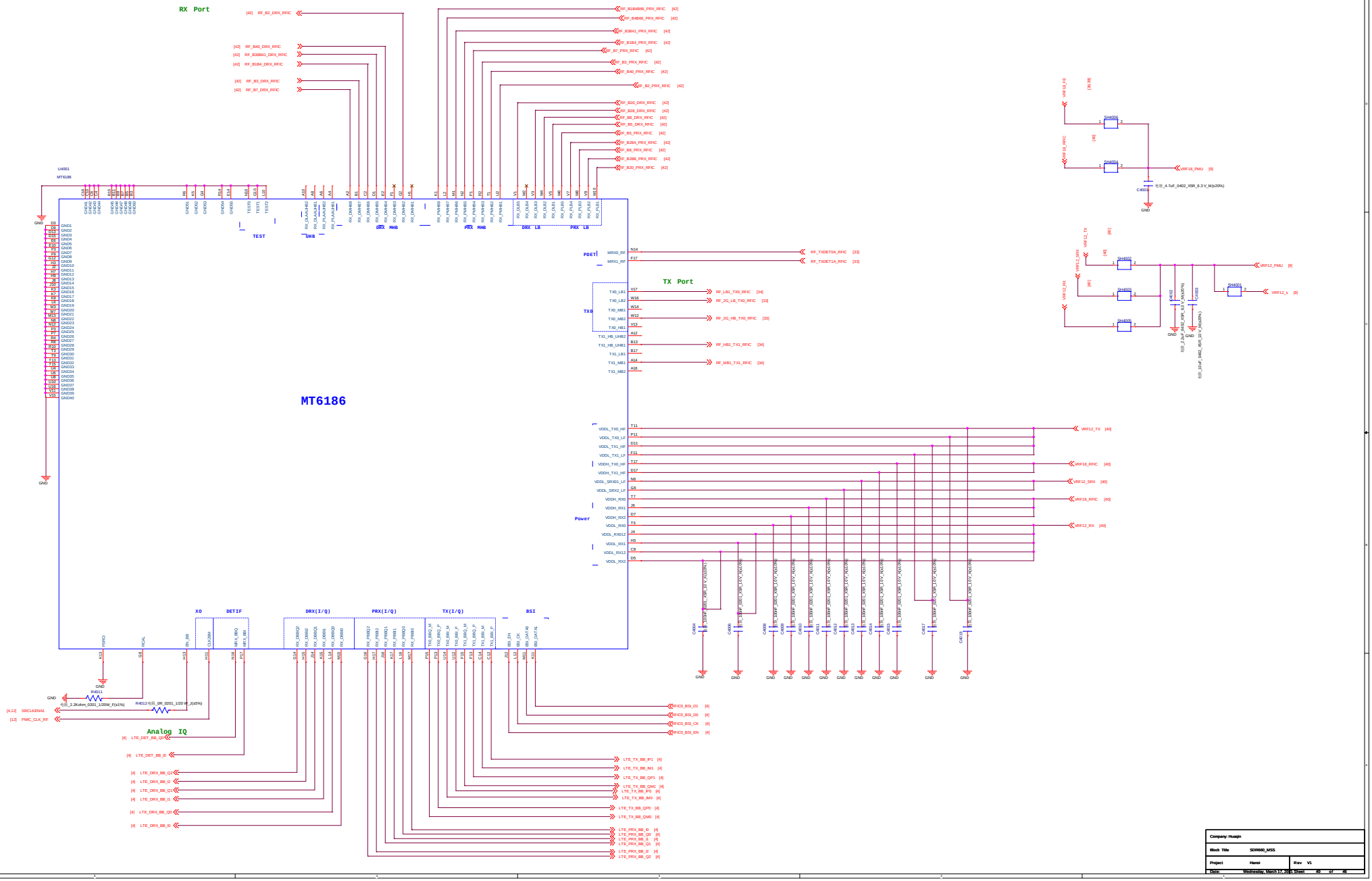
RX Port
TX Port
Power
Analog IQ
MT6186
U4001
MT6186
TEST
DRX MMB
PRX MMB
DRX LB
PRX LB
PDET
TX0
X0
DETIF
DRX(I/Q)
PRX(I/Q)
TX(I/Q)
BSI
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RF_B40_DRX_RFIC [42]
RF_B38B41_DRX_RFIC [42]
RF_B1B4_DRX_RFIC [42]
RF_B3_DRX_RFIC [42]
RF_B7_DRX_RFIC [42]
RF_B1B4B66_PRX_RFIC [42]
RF_B4B66_PRX_RFIC [42]
RF_B38B41_PRX_RFIC [42]
RF_B1B4_PRX_RFIC [42]
RF_B7_PRX_RFIC [42]
RF_B3_PRX_RFIC [42]
RF_B40_PRX_RFIC [42]
RF_B2_PRX_RFIC [42]
RF_B20_DRX_RFIC [42]
RF_B28_DRX_RFIC [42]
RF_B8_DRX_RFIC [42]
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RF_2G_LB_TX0_RFIC [33]
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VRF18_RFIC [40]
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LTE_PRX_BB_Q2 [4]
Company: Huaqin
Block Title SDR660_MSS
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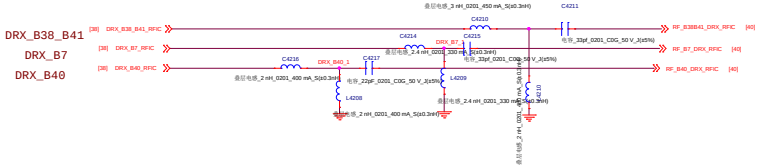
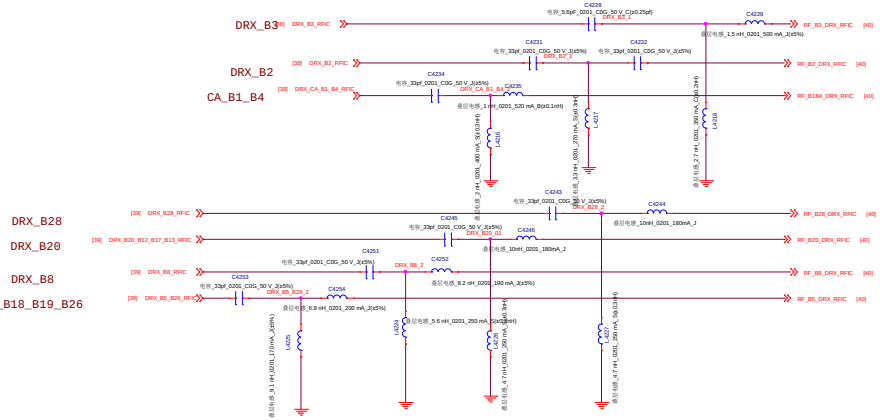
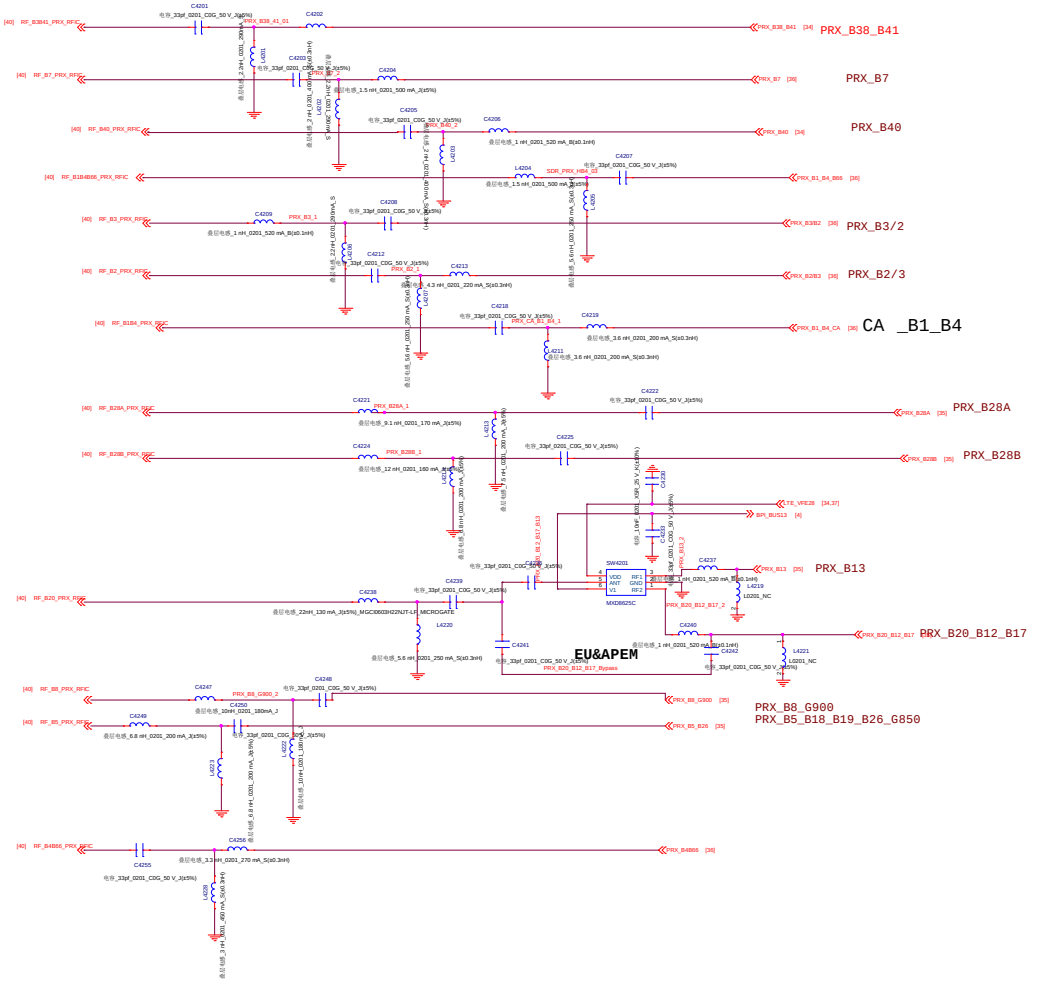
MT6186_DA_PRX_DRX_FBRX







Company: Huaqin			
Block Title	SDR660_DAPRXDRXFBRX		
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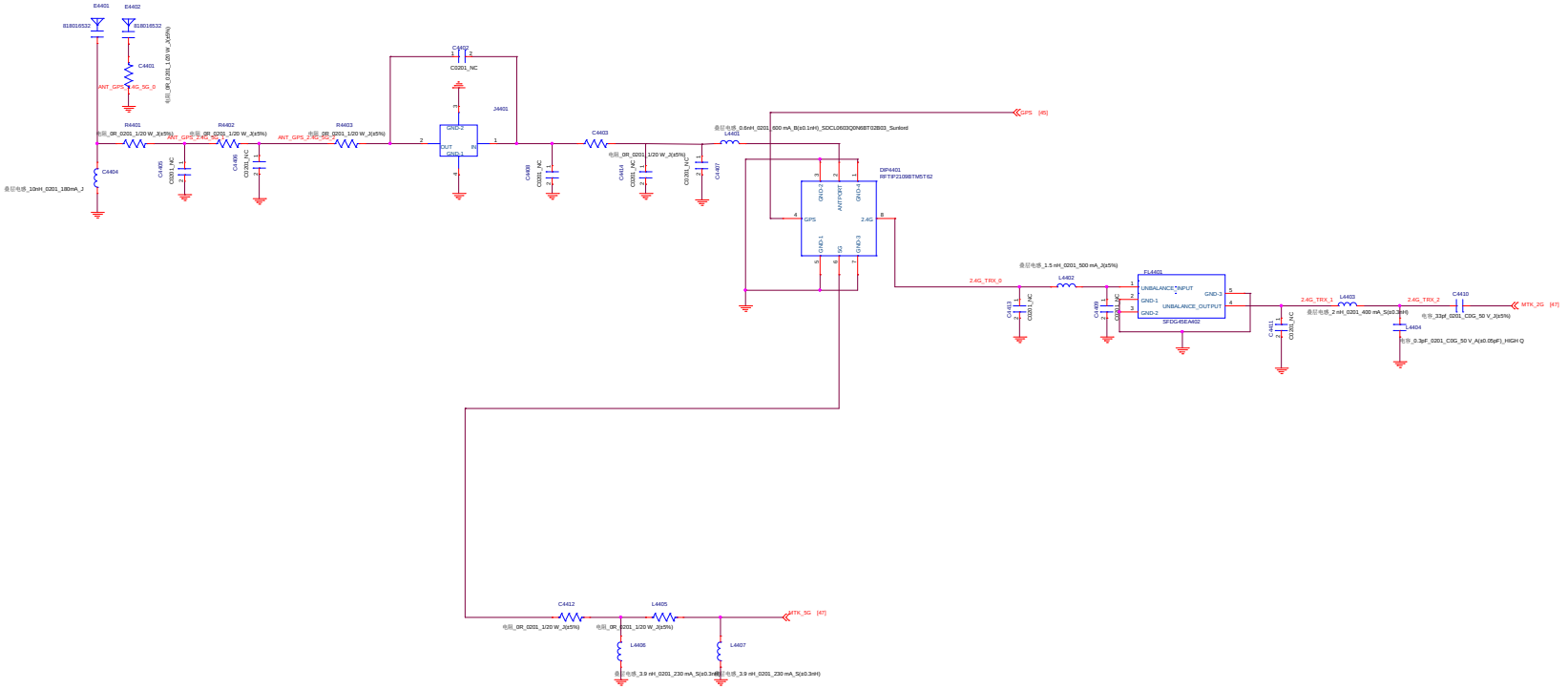
WIFI 2.4G_BT_5G_GPS



Company: Huaqin			
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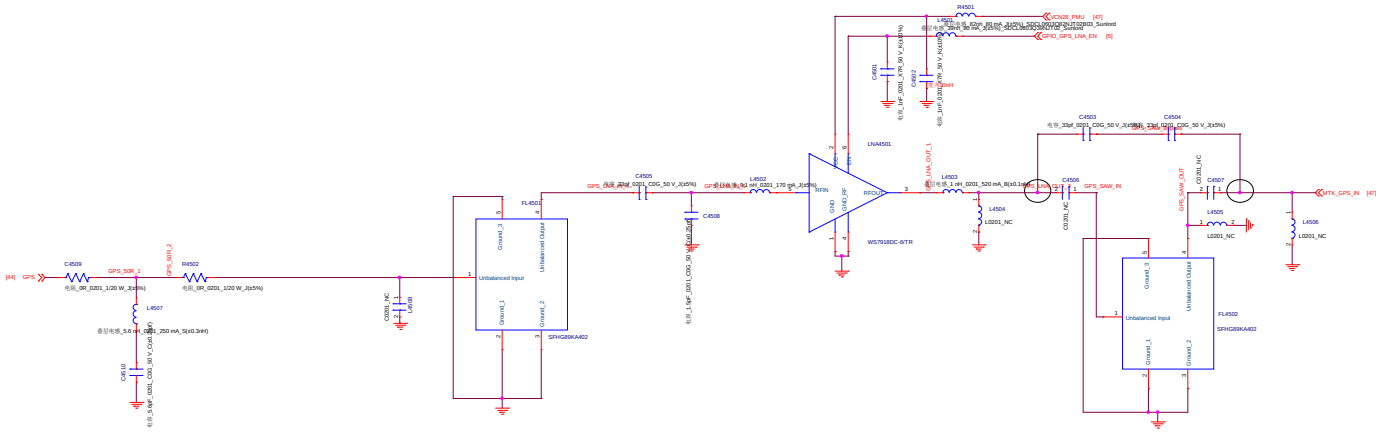
GPS



Company: Huaqin			
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Company: Huaqin			
Block Title	WCN3680		
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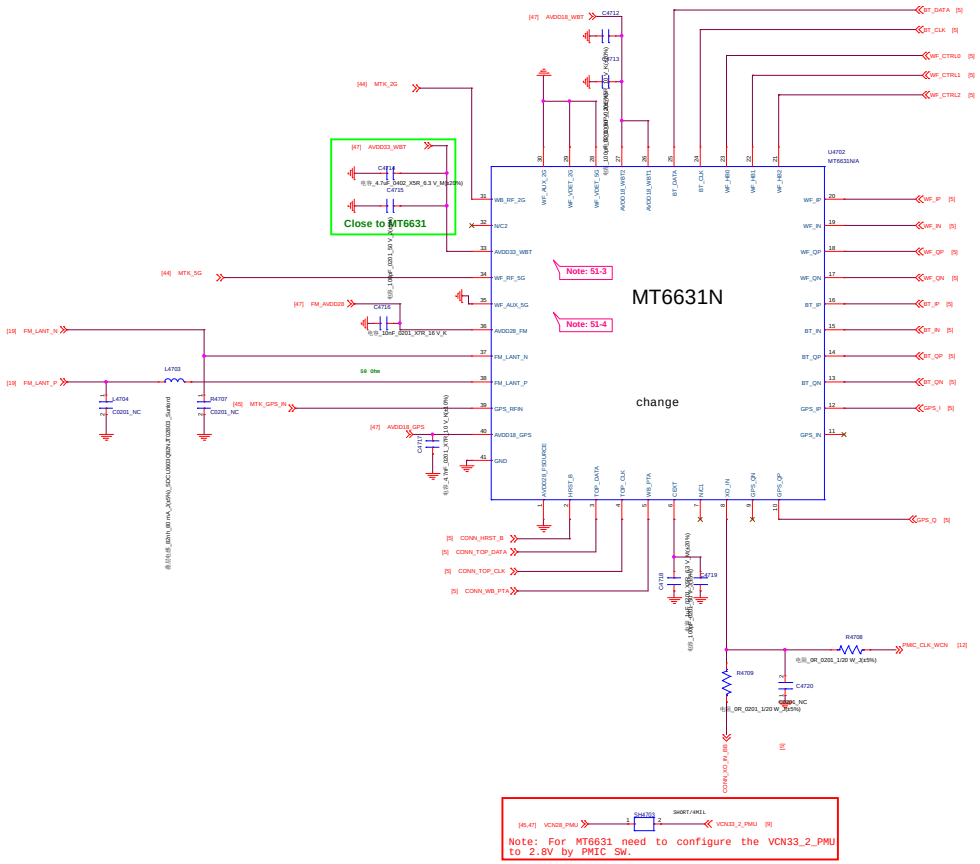
WIFI2.4G/5G_ANT



Schematic design notice of "51_CONNECTIVITY_CONSYS_MT6631"	
Note 51-1:	For R5015 size, please select 0402 size or larger one
Note 51-2:	Please refer to MT6765 Baseband design notice for VCN33 LDO selection guide
Note 51-3:	If WiFi 5G not support, connect pin 34(WF_RF_5G) to GND
Note 51-4:	Pin 36 (AVDD28_FM) must be connected to VCN28 even if FM not support

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