



<Variant Name>

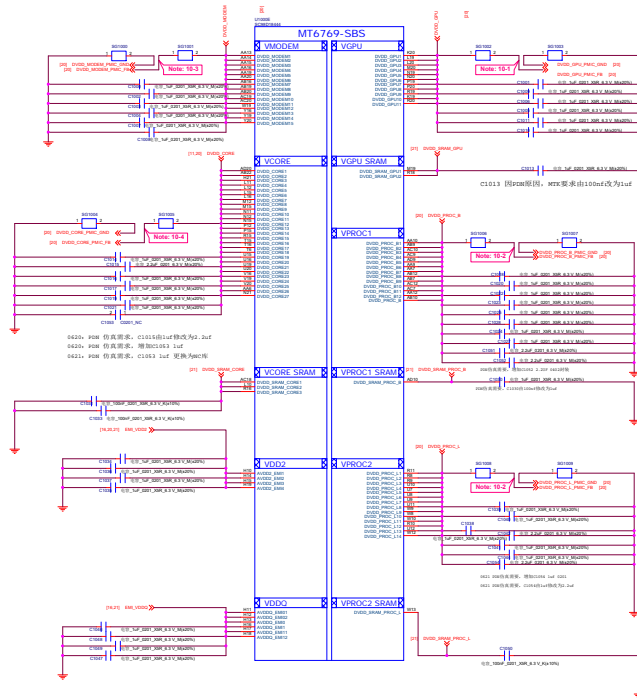
华勤通讯 Huaqin Telecom Technology Com.,Ltd

Title 04_Change_Notice

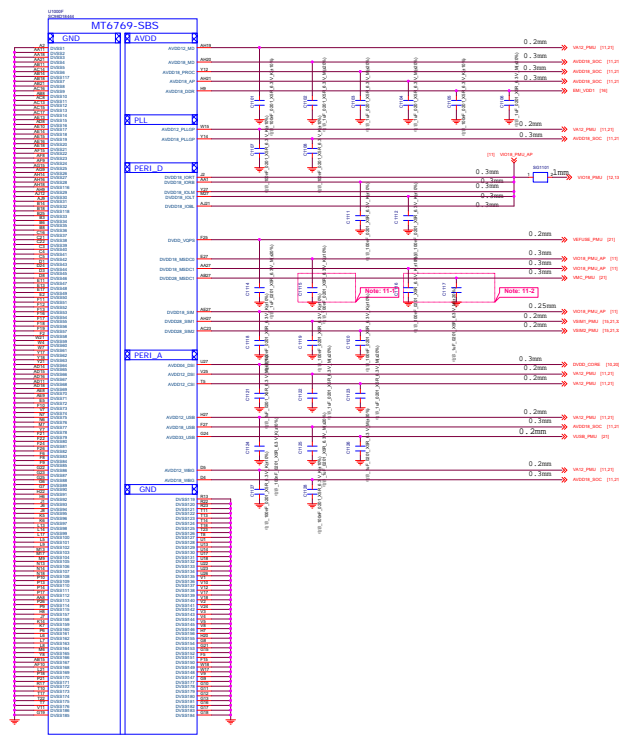
Size C	Project AL6361A	Rev V1
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Note 10-1:	Differential pair of DVD0_GPU remote sense must be close to BB's ball. Remote sense trace with GND shielding to PMIC (Differential)
Note 10-2:	Differential pair of DVD0_PROC remote sense must be close to BB's ball. Remote sense trace with GND shielding to PMIC (Differential)
Note 10-3:	Differential pair of DVD0_MODEM remote sense must be close to BB's ball. Remote sense trace with GND shielding to PMIC (Differential)
Note 10-4:	Differential pair of DVD0_CORE remote sense must be close to BB's ball. Remote sense trace with GND shielding to PMIC (Differential)



华勤通讯 Huaqin Telecom Technology Co., Ltd			
Title 10_BB_POWER_PDN			
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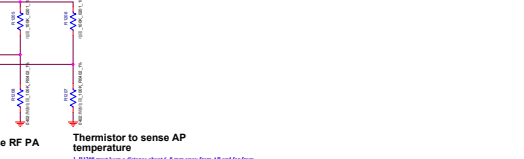
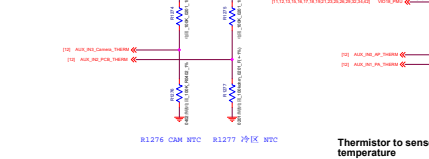
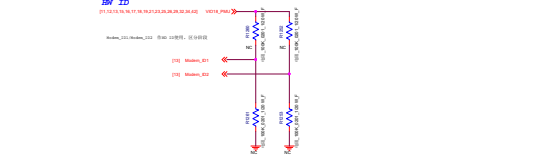
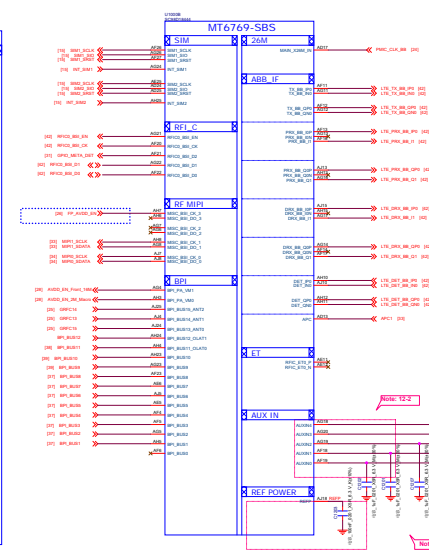
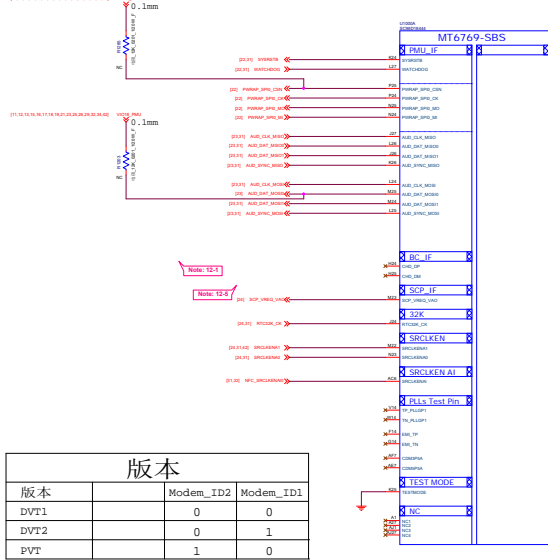
Schematic design notice of "11_BB_POWER_IO" page:

Note 11-1: C1115 closed DVDD18_MSDC0 150mil

Note 11-2: C1116 closed DVDD18_MSDC1 150mil
C1117 closed DVDD28_MSDC1 150mil

AVDD18 - 单个点走4mil, 两路分支各16mil, 总路径20mil
VDD18_PSW_AP: 总路径40mil
AVDD18_BDC: 总路径20mil

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Title		11_BB_POWER_IO	
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Schematic design notice of "12_BB_1" page:

Note 12-1: PWRAP_SPI0_CSIN* and "AUD_DAT_MOSI0" are bootstrap pins to select which interface will be the JTAG pin out

PWRAP_SPI0_CSIN	AUD_DAT_MOSI0	JTAG Function
HI	LO	Test
LO	HI	Test

Note 12-2: To shunt a 1uF capacitor in the AUXIN ADC input to prevent noise coupling. It should be placed as close to BB as possible. Connect the unused AUX ADC input to GND.

Note 12-3: The de-coupling cap. for REFP (A18 ball) have to be placed as close to BB as possible.

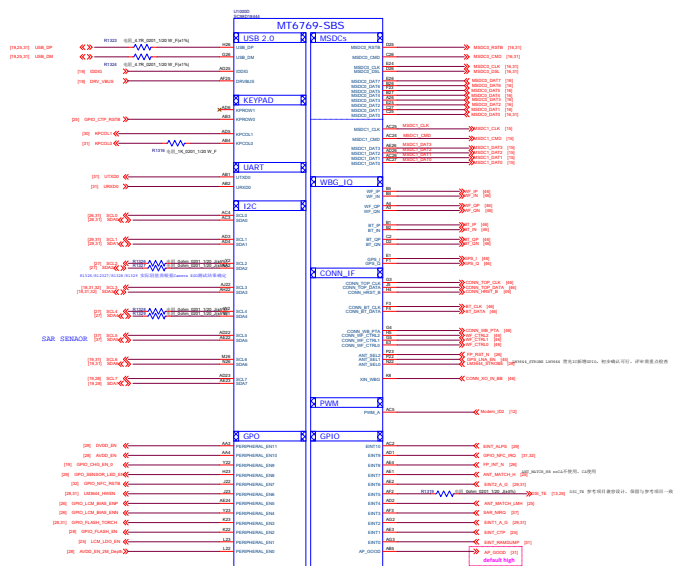
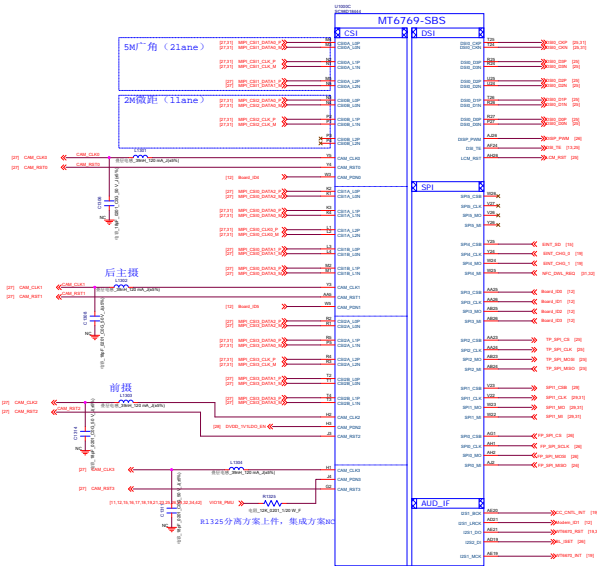
Note 12-4: HW pin for DDR type feature in bootstrap (refer to BB HW design Notices)

AUD_SPI0_CSIN	AUD_SPI0_CSIN	DDR Type
default=PD	default=PD	DDR
No ext. pull	No ext. pull	DDR
No ext. pull	No ext. pull	DDR

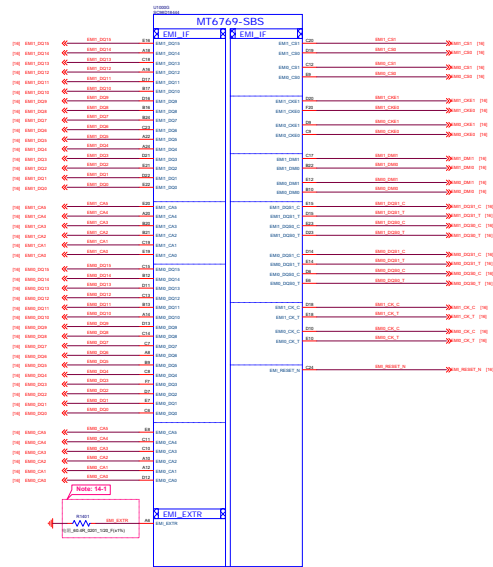
Note 12-5: Charger must have D+/D- pin for charger type USB detection. Charger must have at least 500mA USB current for AI charger type.

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Title			
华勤通讯 Huaqin Telecom Technology Co.,Ltd			
13_BB_2			
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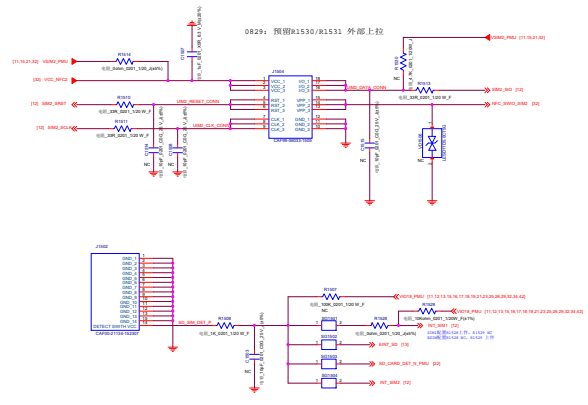
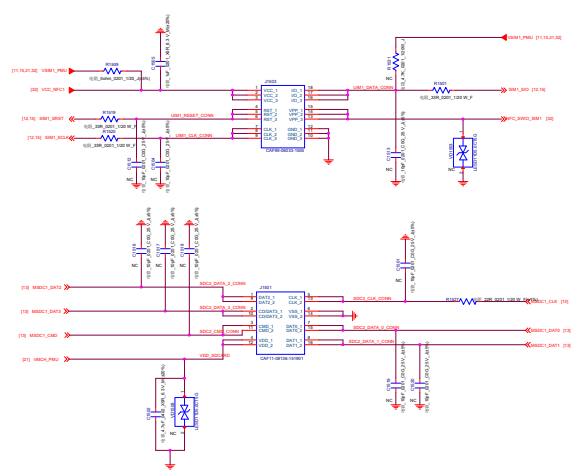


Schematic design notice of "14_BB_3" page.

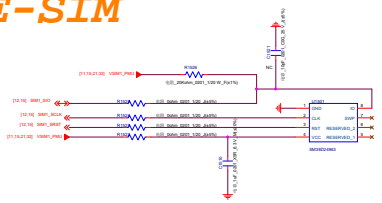
Note 14-1: R1401 please select 60.4 ohm (1%) resistor

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Title 14_BB_3			
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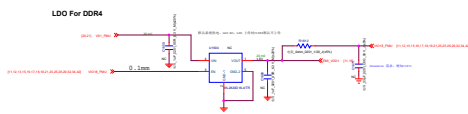
3IN3 SIM1&SIM2&SD



E-SIM



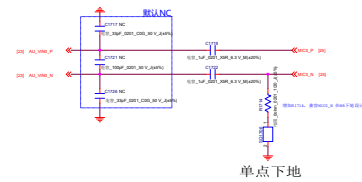
华勤通讯 Huaqin Telecom Technology Com.,Ltd		
Title 15_Memory_SD SIM_Card		
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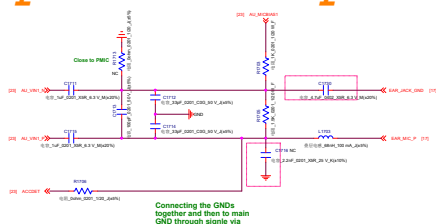
For other cap for PMIC (>10uF, at PMIC page):
please also refer to MMD and layout guide for placement.

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Title 16_Memory_EMMC_LPDDR4X		
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Earphone Microphone

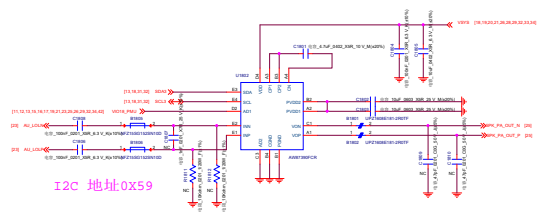


Slave MIC

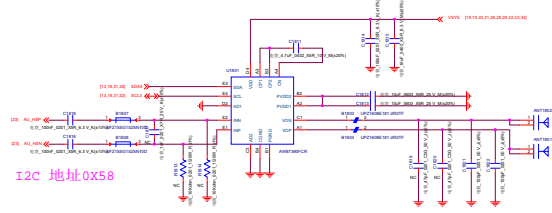
[illegible]

華勤通訊 Huaqin Telecom Technology Com.,Ltd			
Title 17_AUDIO_Earphone_MIC			
Size D	Project AL6361A		Rev v1
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SPEAKER



Receiver

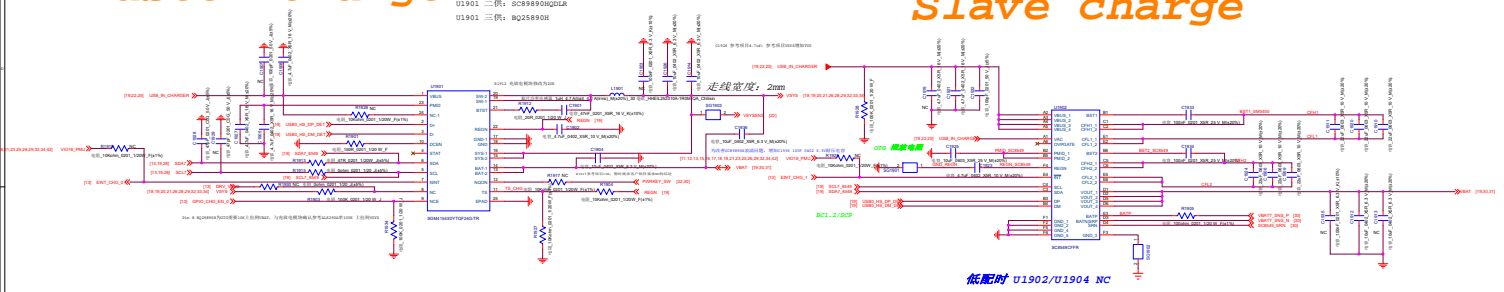


华勤通讯 Huaqin Telecom Technology Com.,Ltd			
Title		18_AUDIO_Speaker_Receiver	
Size	Project	AL6361A	Rev
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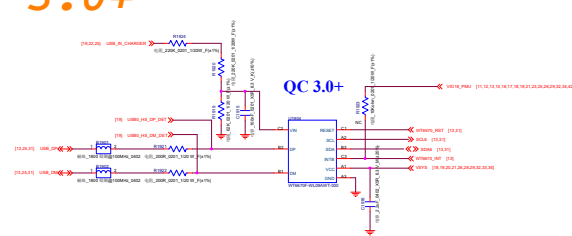
Master charge

U1901 主供: SQM415430VTP240/2R
U1901 二供: SC898908QDGA
U1901 三供: BQ25890H

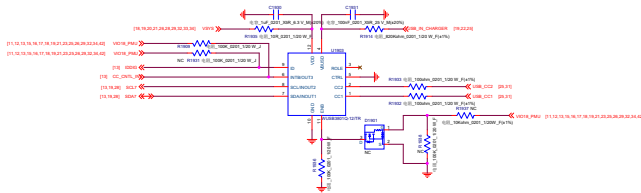
Slave charge



QC 3.0+

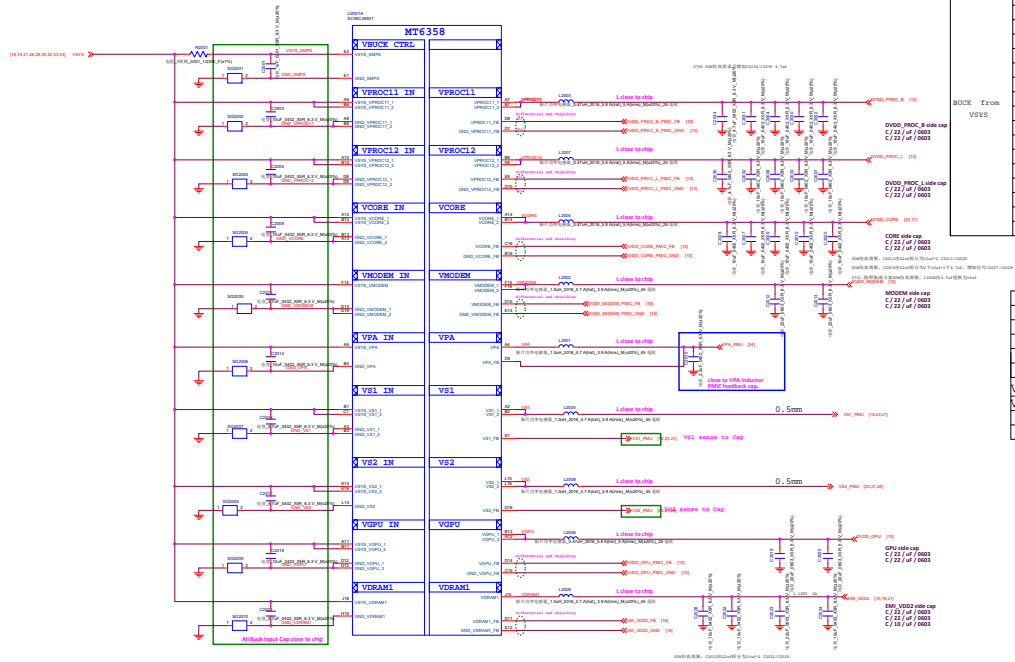


CC logic



华勤通讯 Huaqin Telecom Technology Com.,Ltd		
Title 19_Charger		
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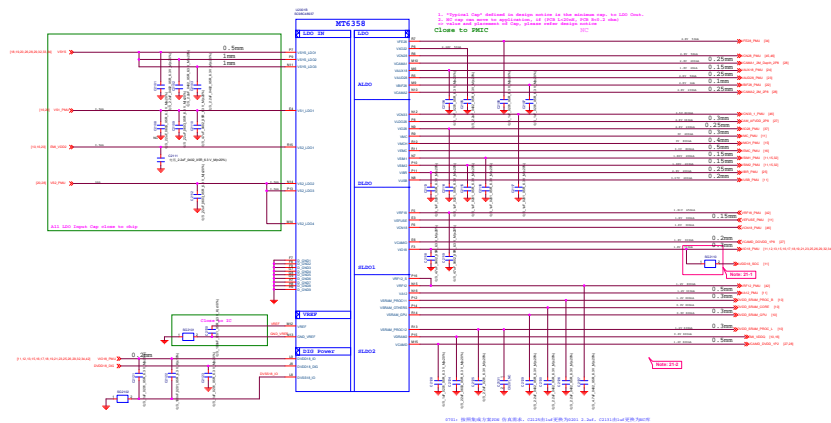
MT6358 BUCK output



Input Power	Power Name	Output Voltage (V)	Output Current	Default Voltage
BUCK From VSYS	VPA	0.5-1.4V	1A	0.5V
	VPROC11	0.55-1.1V	5A	0.8V
	VPROC12	0.55-1.1V	5A	0.8V
	VGPU	0.55-1.1V	5A	0.8V
	VCORE	0.55-1.1V	5A	0.8V
	VMODEM	0.45-1.1V	3.25A	0.8V
	VS1	1.86-2.2V	2A	2V
	VS2	1.25-1.5V	2A	1.35V
	VDRAM	1.225/1.125	2A	1.125

IP	Inductance	IDC(A)	
VS1	1	2.6	
VS2	1	2.5	
VDRAM	1	2.5	
VPA	1	4	
VMODEM	1	4	
VPROC11	0.47	5.3	
VPROC12	0.47	3.85	
VCORE	0.47	5.3	
VGPU	0.47	3.9	

Title 20_POWER_MT6358_Buck			
Size D	Project AL6361A	Rev v1	
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Schematic design notice of "21_POWER_MT6358-LDO" page.

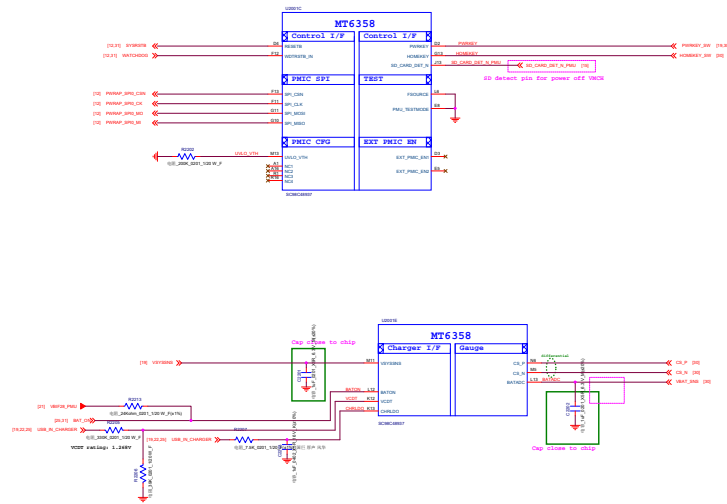
Note 21-1: Please set SG2110 close to C2118, making star connection between VDD18_PAU and AVDD18_SOC near to LDO cap. C2118. Please also refer to MT6358 design notice for further detail design information.

Note 21-2: If these power trace can meet LDO layout constraint, these CAP can be NC or removed. Please refer to MT6358 design notice.

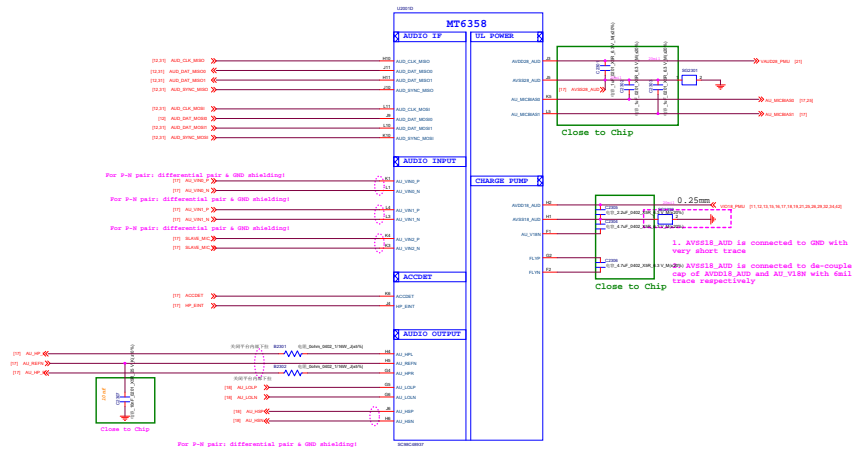
MT6358 LDO output

Input Power	Power Name	Output Voltage (V)	Output Current	Default Voltage
VDD1	VDD1	1.8	500mA	1.8V
	VDD2	2.8	500mA	2.8V
	VDD3	2.8	500mA	2.8V
	VDD4	1.8/2.8/3.0/3.3	200mA	2.8V
	VDD5	1.8	200mA	1.8V
	VDD6	2.8	500mA	2.8V
	VDD7	2.8	500mA	2.8V
	VDD8	2.8	500mA	2.8V
	VDD9	2.8	500mA	2.8V
	VDD10	2.8/3.0/3.3	500mA	2.8V
VDD2	VDD11	2.8	200mA	2.8V
	VDD12	1.8/2.8/3.0/3.3	200mA	2.8V
	VDD13	2.8/3.0/3.3	500mA	2.8V
	VDD14	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD15	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD16	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD17	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD18	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD19	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD20	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
VDD3	VDD21	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD22	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD23	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD24	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD25	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD26	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD27	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD28	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD29	1.8/2.8/3.0/3.3/3.6	200mA	1.8V
	VDD30	1.8/2.8/3.0/3.3/3.6	200mA	1.8V

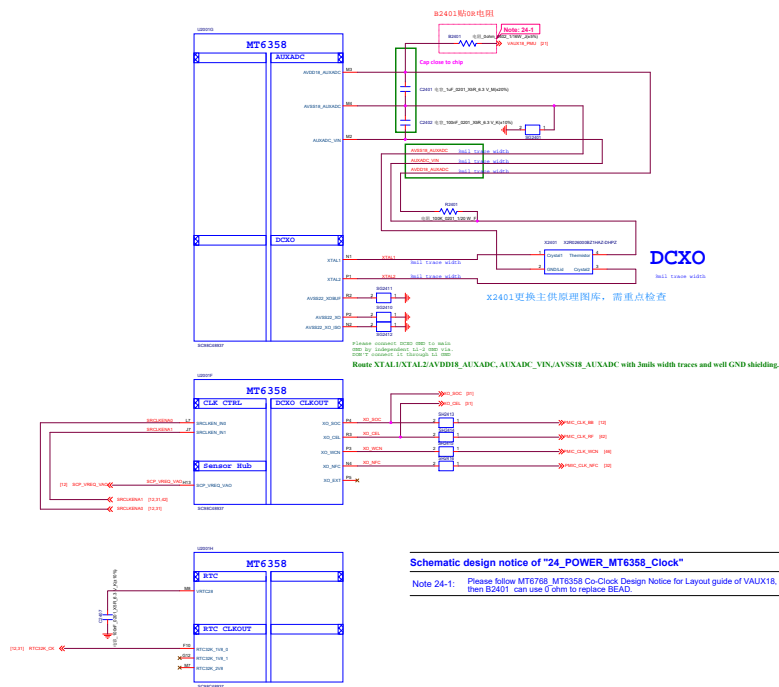
华勤通讯 Huaqin Telecom Technology Com., Ltd			
Title 21_POWER_MT6358_LDO			
Size E	Project AL6361A	Rev v1	
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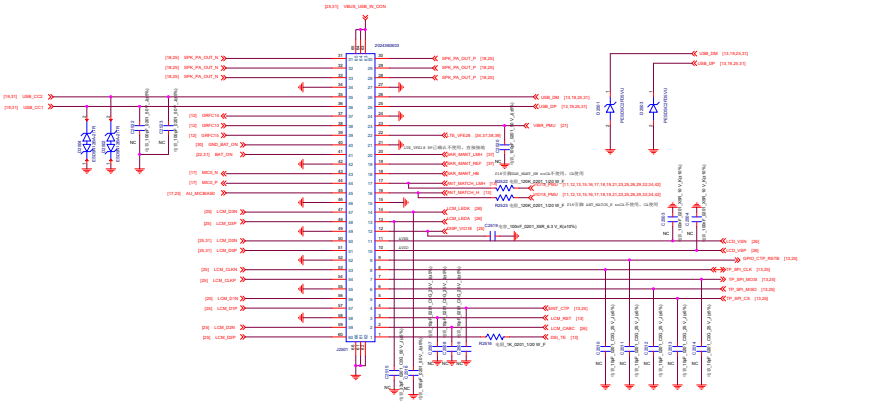
华勤通讯 Huaqin Telecom Technology Com.,Ltd			
Title 22_POWER_MT6358_IF			
Size	Project	Rev	
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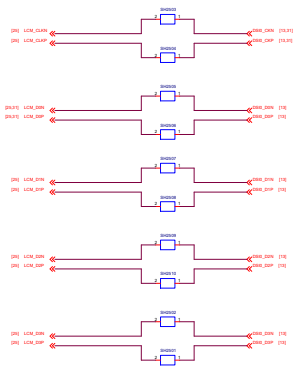
华勤通讯 Huaqin Telecom Technology Com.,Ltd			
Title 23_POWER_MT6358_Audio			
Size D	Project AL6361A	Rev V1	
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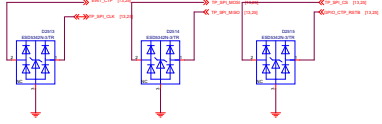
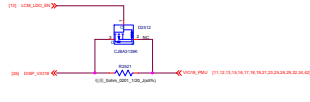
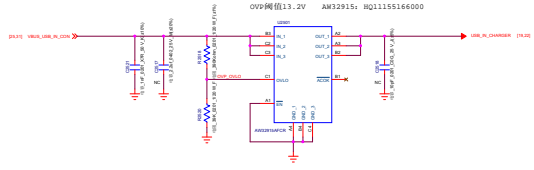
华勤通讯 Huaqin Telecom Technology Com.,Ltd			
Title 24_POWER_MT6358_Clock			
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LCD MIPI Common Mode Filter



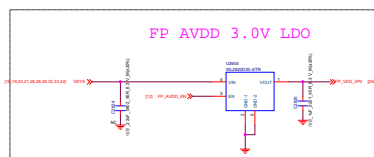
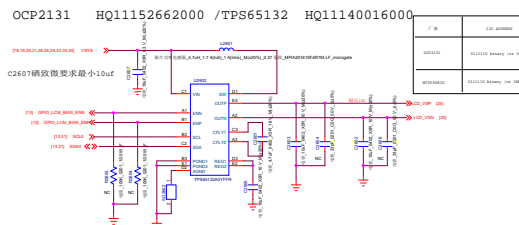
OVP OVP参考AL9260A AW32905 更换OVP库



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Title 25_LINK_OVP			
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偏压电路参考milan2

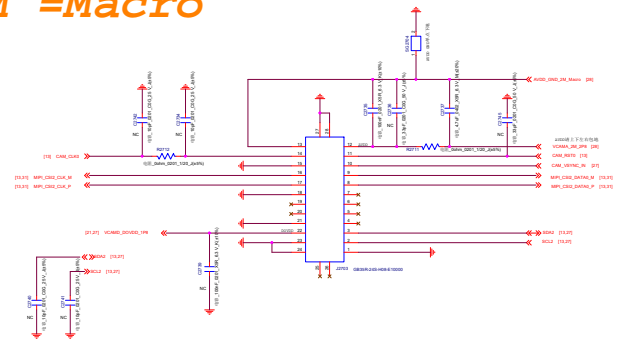
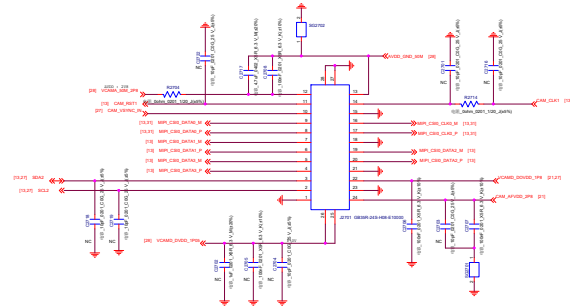
按照资源推荐型号更换U2602封装库，然后结合SPC修改外围匹配。



华勤通讯 Huaqin Telecom Technology Co., Ltd			
Title 26_LCD_BL_BIAS_Finger			
Size D	Project AL6361A		Rev v1
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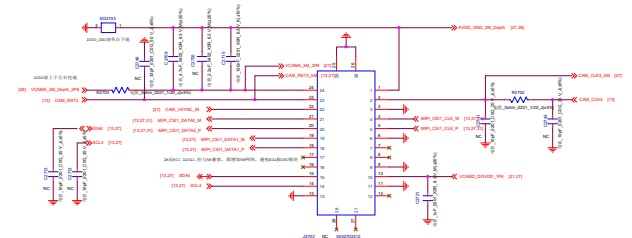
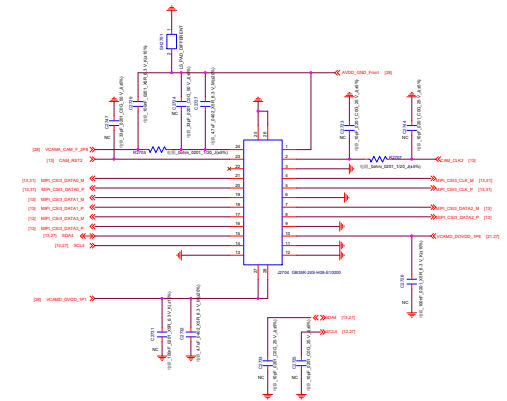
Main Camera 50M_OIS

2M =Macro

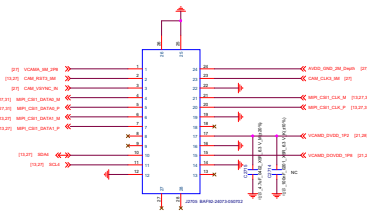


Front CAM 16M/8M

2M Depth ★NOTE:低配2M J2702上件

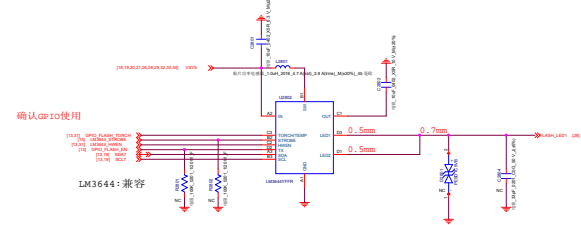


5M Wide ★NOTE:低配2M J2702上件

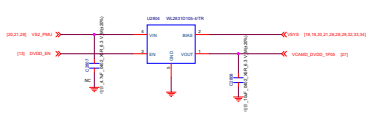


Huawei Logo			
华勤通讯 Huaqin Telecom Technology Com.,Ltd			
Title 27_Camera			
Size D	Project AL6361A	Rev v1	
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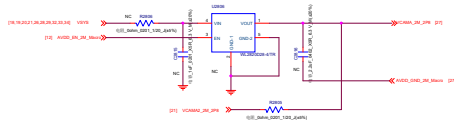
Rear CAM FLASH



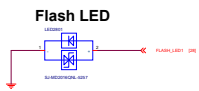
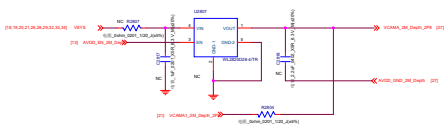
LDO For Camera DVDD 50M 1.05V



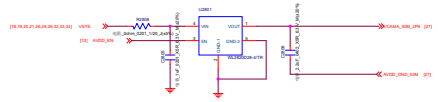
LDO For Camera AVDD 2M Macro 2.8V 预留外插LDO



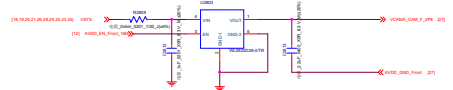
LDO For Camera AVDD 2M Depth 2.8V 预留外插LDO



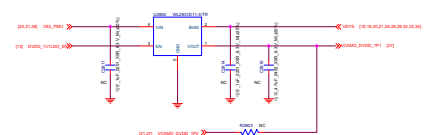
LDO For Camera AVDD 50M 2.8V



LDO For Camera AVDD Front 16M/8M 2.8V



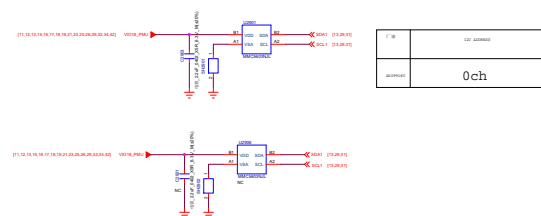
LDO For CAM DVDD Front 16M 1.1V HQ11154597000, LDO_1.1_500 mA



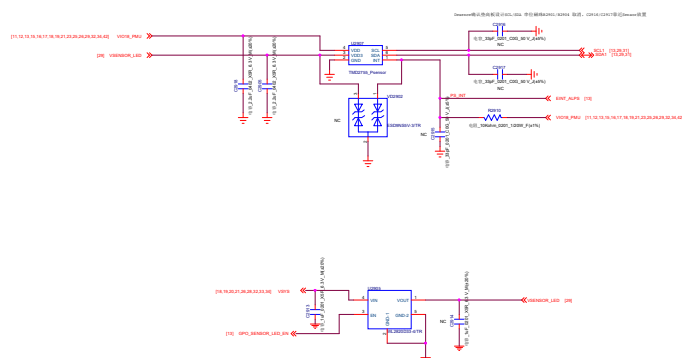
高配 16M R2803 MC, U2805 上件, C2814 MC
低配 8M R2803 上件, U2805及外插匹配MC

华勤通讯 Huaqin Telecom Technology Com.,Ltd		
Title 28_Camera_Flash_Powers_LDO		
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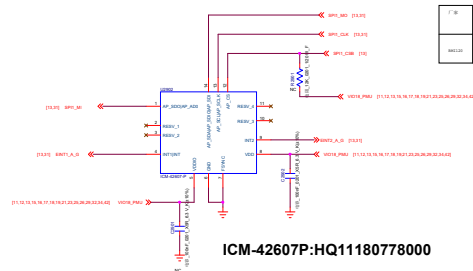
M-Sensor



ALPS SENSOR



Accerometer + Gyro Sensor



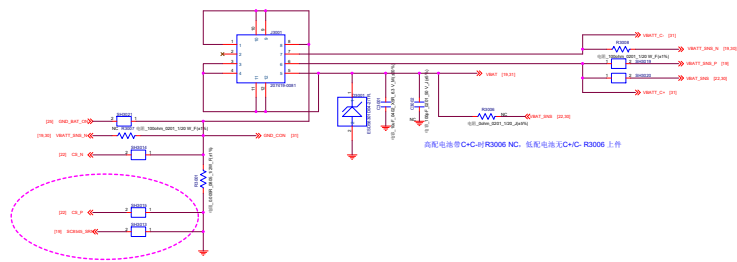
ICM-42607P:HQ11180778000

G Sensor OD0.7更新不需要再兼容，删除单 G sensor

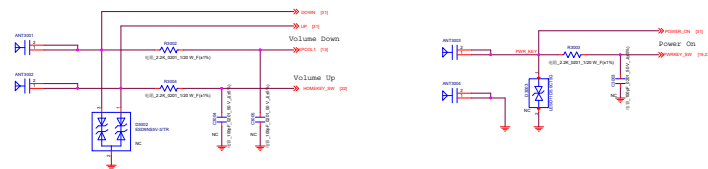
厂家	120 800888
880130	0x68

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Title 29_Sensors			
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BATT CON



KEY



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Title 30_BAT_Key			
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[1X, HQ]	MNDC08_D08L	2000.0.0	1000000
[1X, HQ]	MNDC08_DAF0	2000.0.0	1000000
[1X, HQ]	MNDC08_CSJK	2000.0.0	1000000
[1X, HQ]	MNDC08_C0ND	2000.0.0	1000000
[1X, HQ]	MNDC08_P0RTW	2000.0.0	1000000

WT0872, SCL6, and SCL8 proteins are shown as red arrows pointing to the right, indicating their localization. WT0872 is localized to the plasma membrane (PM) and Golgi apparatus (GA). SCL6 and SCL8 are localized to the Golgi apparatus (GA). The diagram shows three horizontal lines representing the Golgi apparatus, with WT0872, SCL6, and SCL8 proteins shown as red arrows pointing to the right, indicating their localization.

[12:24] RTIC32K_OK >>> TSP3100
[24] XIO_SIOC >>> TSP3101
[24] XIO_CIL >>> TSP3102

[13,29] Q542_C0KN >>> TSP2103

[13,29] Q542_C0KP >>> TSP2104

[29] LCM_D0N >>> TSP2105

[illegible]

[18,30] VBAT

[30] VBAT_C+

[30] VBAT_C-

[13,28] GPIO_FLASH_TORP → TPO 3 1 TPI3160

[13,28] LM3846_HWSW → TPO 3 1 TPI3167

TPD3

Gene	TPD3
NFC_SPLICERNA3	TPD3 1
GPPO_NFC_R1Q	TPD3 1
NFC_DWV_R1Q	TPD3 1
SCL3	TPD3 1
SCL3	TPD3 1

[13.20] SPI1_M

[13.20] SPI1_M0

[13.20] SPI1_CLK

[13.20] RNT1_A_0

[13.20] RNT2_A_0

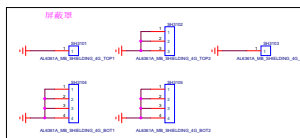
The schematic diagram shows the power supply connections for the ATmega8 microcontroller:

- VCC:** Connected to pin 7 (VCC) and pin 10 (GND).
- GND:** Connected to pins 2, 3, 4, 5, 6, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

[\[19:20\]](#)
[GMR_CCT](#)

[72] GPHO_MSETA_261 ▶▶ SEP1 5 ▶ TP233

P12.23E AGD_CLK_MISO >> TPO.3.1 TPO310
 P12.23E AGD_DAT_MISO >> TPO.3.1 TPO310



SH3101	RF	PA	屏蔽罩
SH3102	BB	CPU+DDR	屏蔽罩
SH3103	RF	WCN	屏蔽罩
SH3104	BB	PMU+EMMC	屏蔽罩
SH3105	RF	DRX/DRX	屏蔽罩

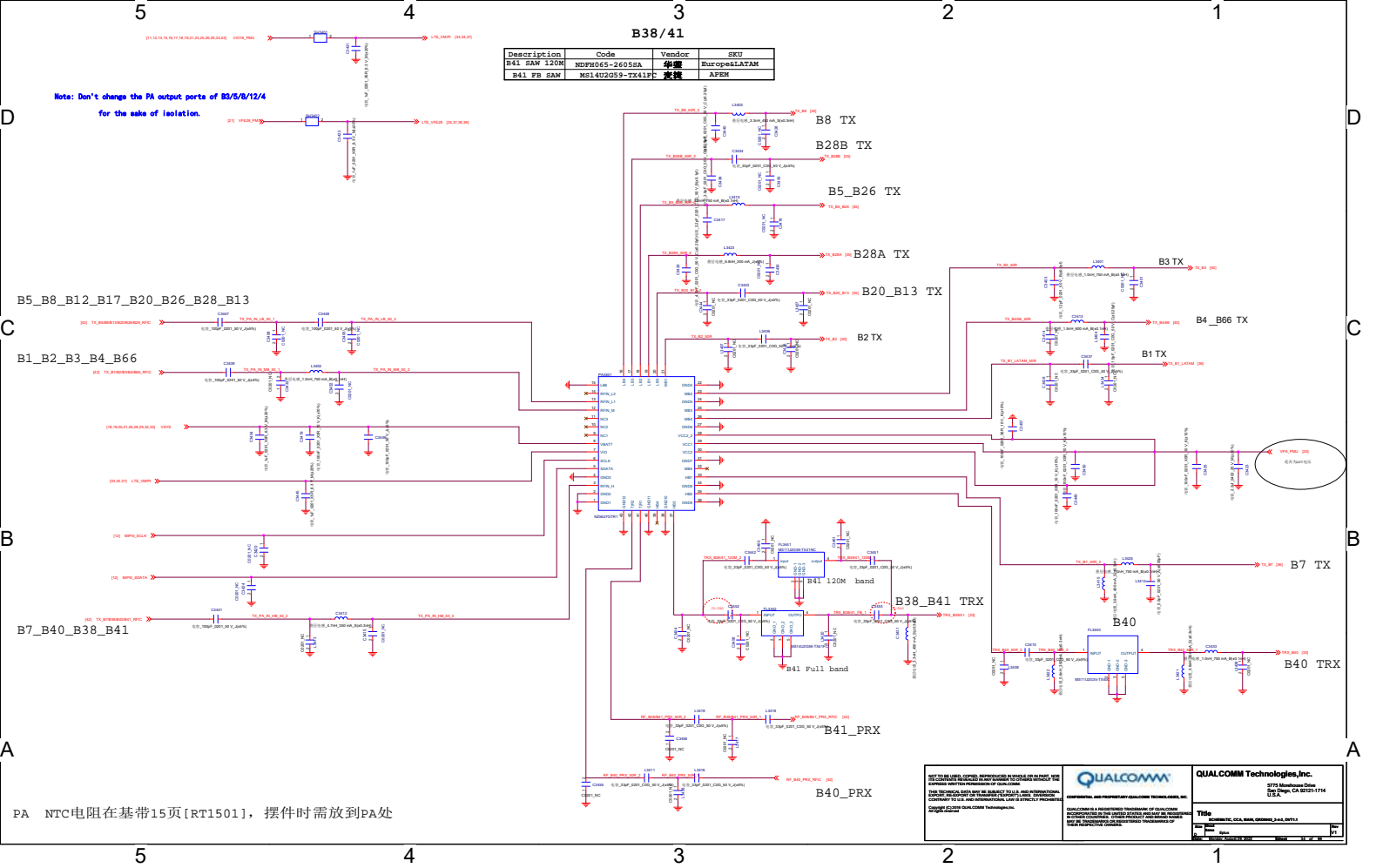
P3102 P3103



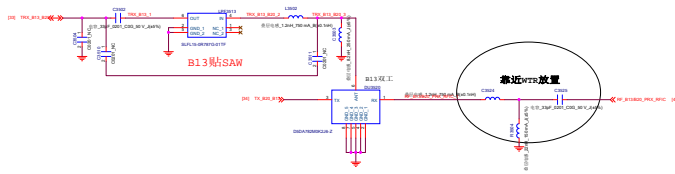
ANT3-107 818GGGNGG ANT3-108 818GGGNGG

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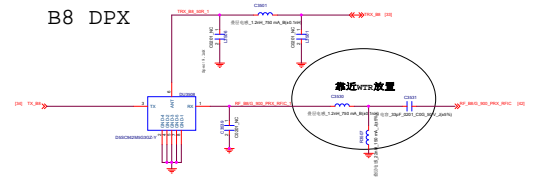
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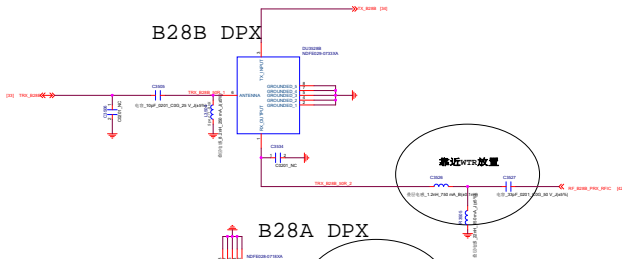
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B20 DPX	SFX806CYH02	Wiseol	Europe&AFEM
B13 DPX	D5DA762M0KJ6-Z	Taiyo	LATAN



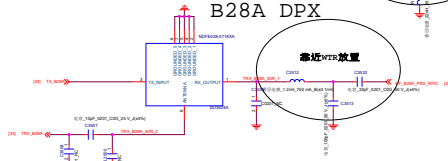
B8 DPX



B28B DPX

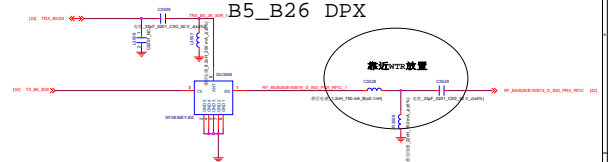


B28A DPX

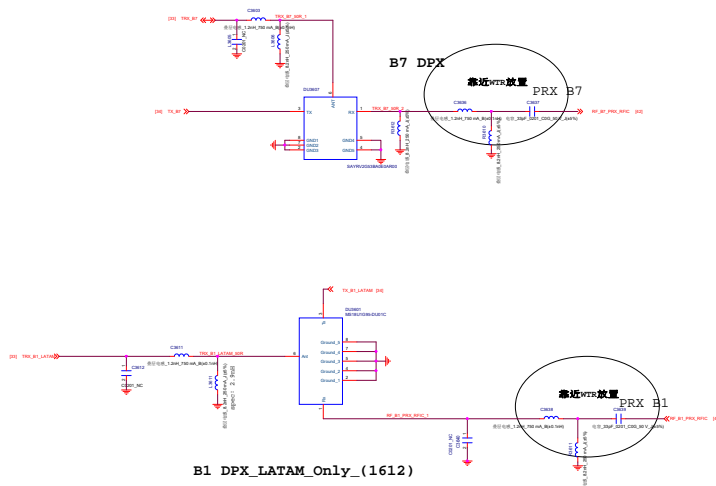


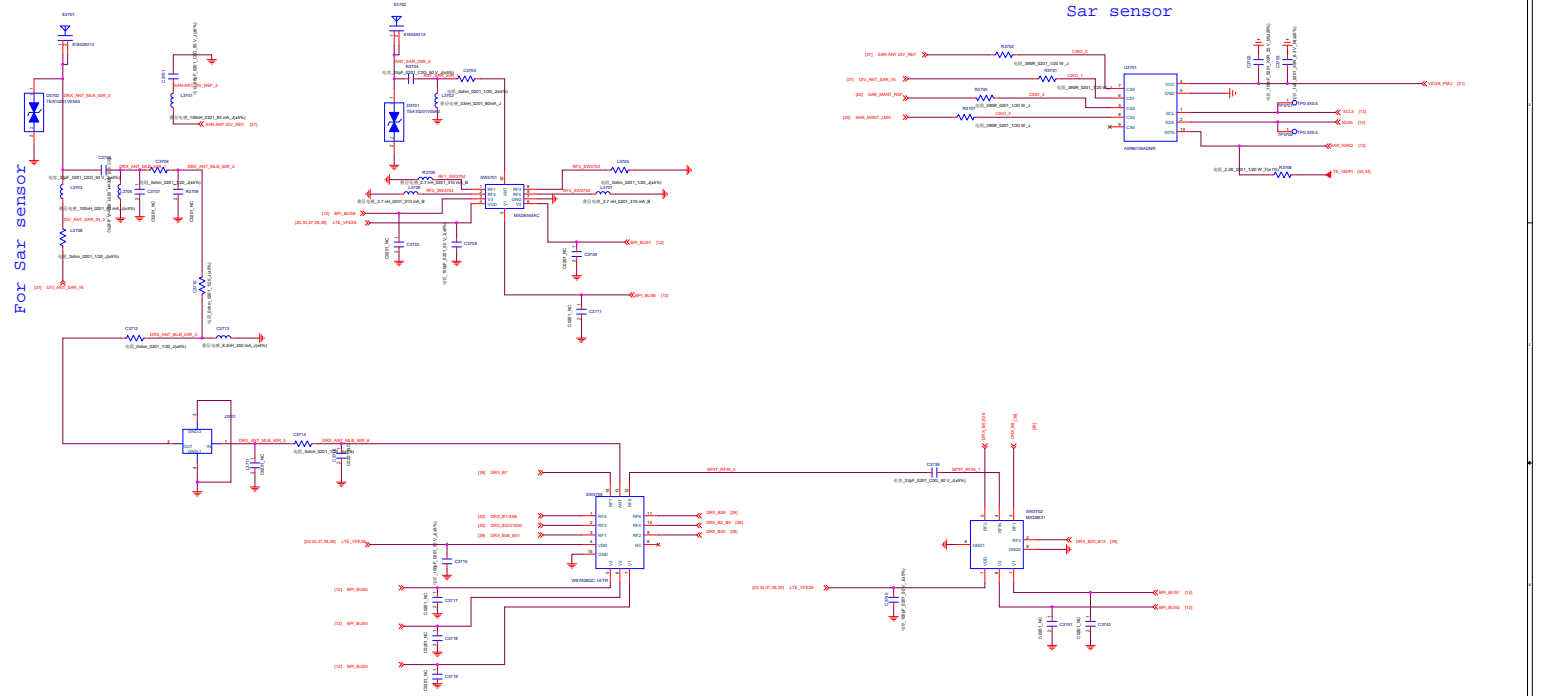
Description	Code	Vendor	SKU
B26 DPX	SATRY831MBA0B0AR0	MURATA	LATAM&AFEM
B5 DPX	HDB05CNSB-B11	好运	Europe

B5_B26 DPX

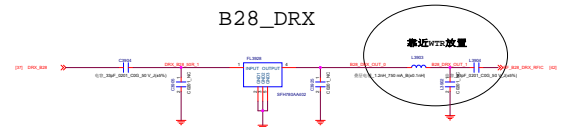
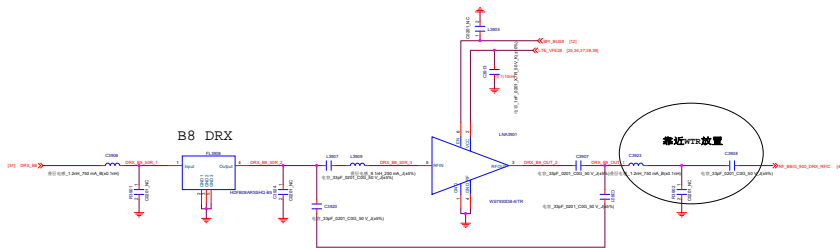
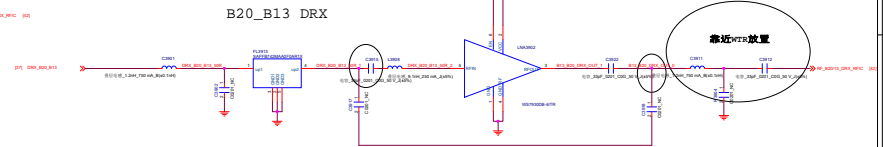


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		Title B20/13 DPX B20/13 DPX B20/13 DPX

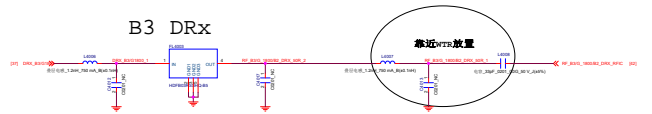
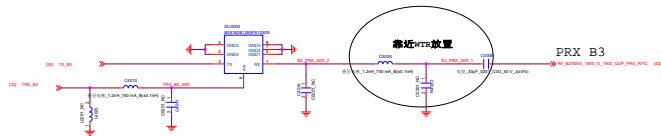
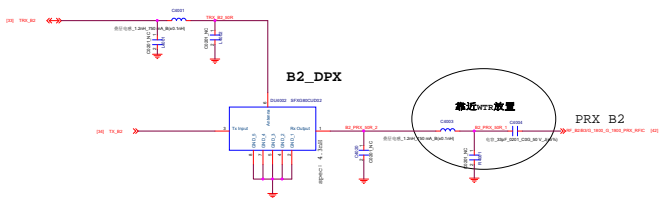




Description	Code	Vendor	SKU
B26 DRX	NDFH052-0876SA	华夏	LATAM & APAC
B5 DRX	HDFB05ARSSHQ-B5	好达	Europe

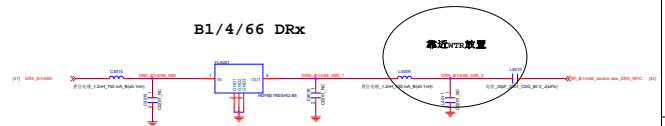
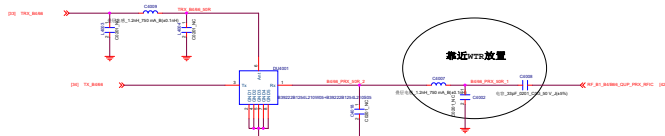


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		<p>Rev _____ Date _____</p> <p>_____ Specs _____</p> <p>_____ Rev _____</p>



B1/B4/B66

Description	Code	Vendor	SKU
B66 SAN	MS11U2G15-RX66B	凌通	LATAN
B1 SAN	MS11U2G15-RX66B	凌通	Europe&AFEM



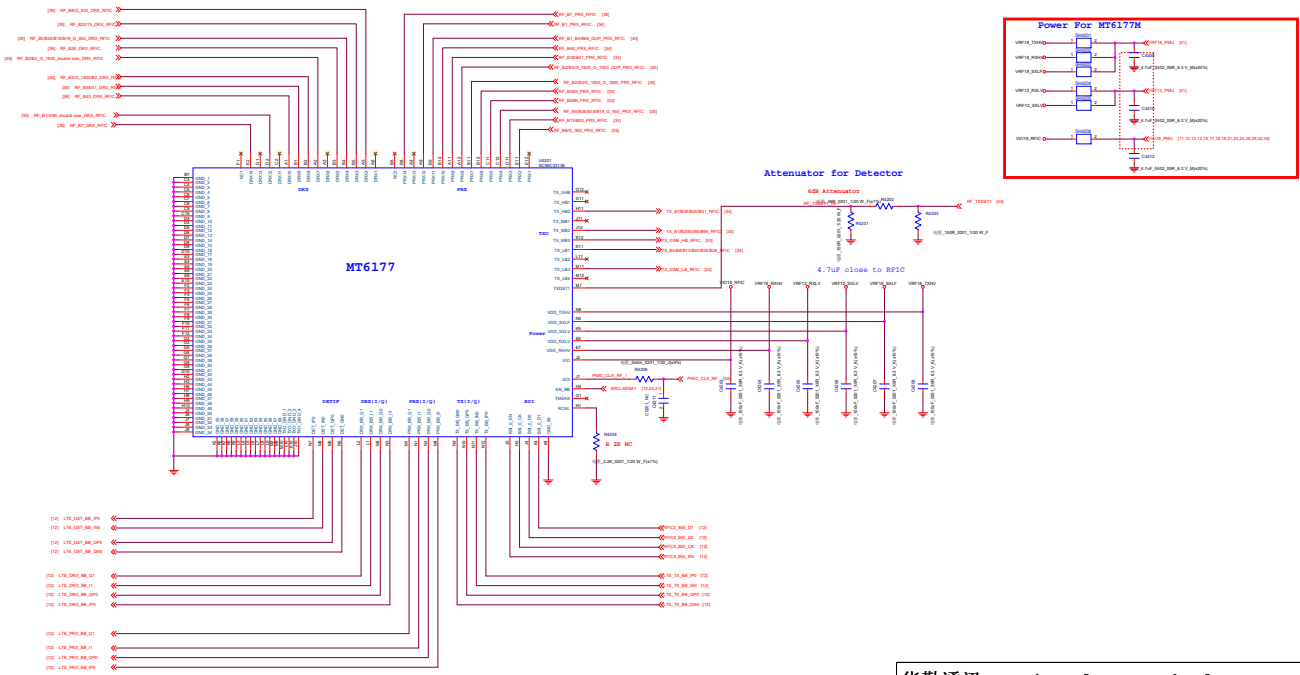
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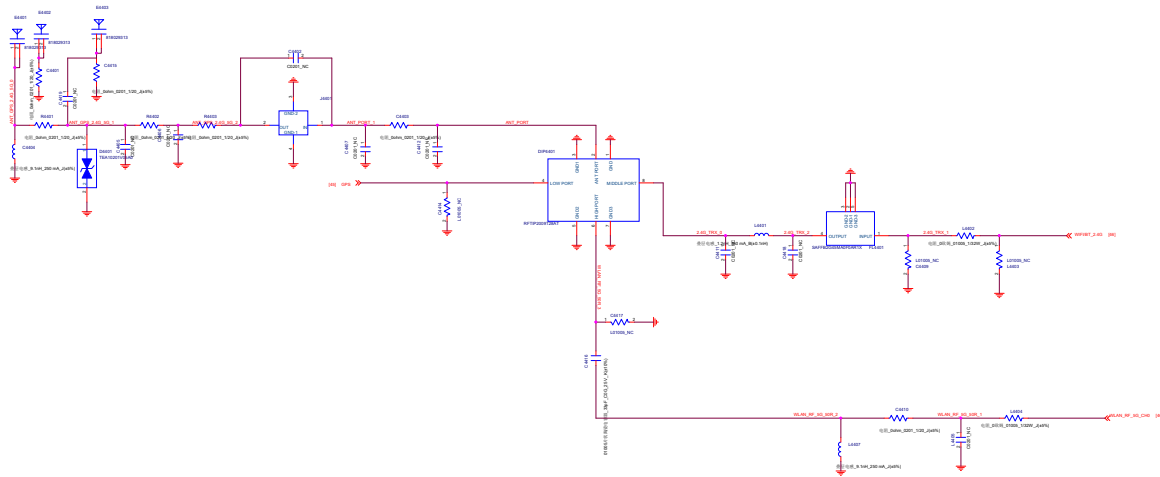
华勤通讯 Huaqin Telecom Technology Com.,Ltd		
Title 31_RF_MT6177_Pin_Out		
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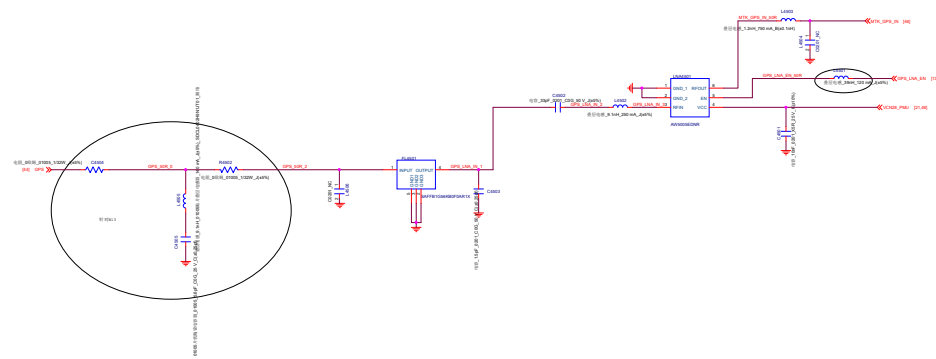
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Title SCHEMATIC, CCA, MAIN, QSD0005_3-0, DVT1.1	
Date 0	Drawn By Eklus
	Drawn By YF

WIFI 2.4G_BT_5G_GPS

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需要从小板连接过来

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 MT6785 Baseband design notice for VCN33 LDO selection guide

Note 51-3: If WiFi/SIG not support, connect pin 34(WF_RF_SIG) to GND

Note 51-4: Pin 36 (AVDD28_FM) must be connected to VCN28 even if FM not support

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Title 36_RF_WCN_MT6631

Size D Project AL1611_MB_V4

Rev v4

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