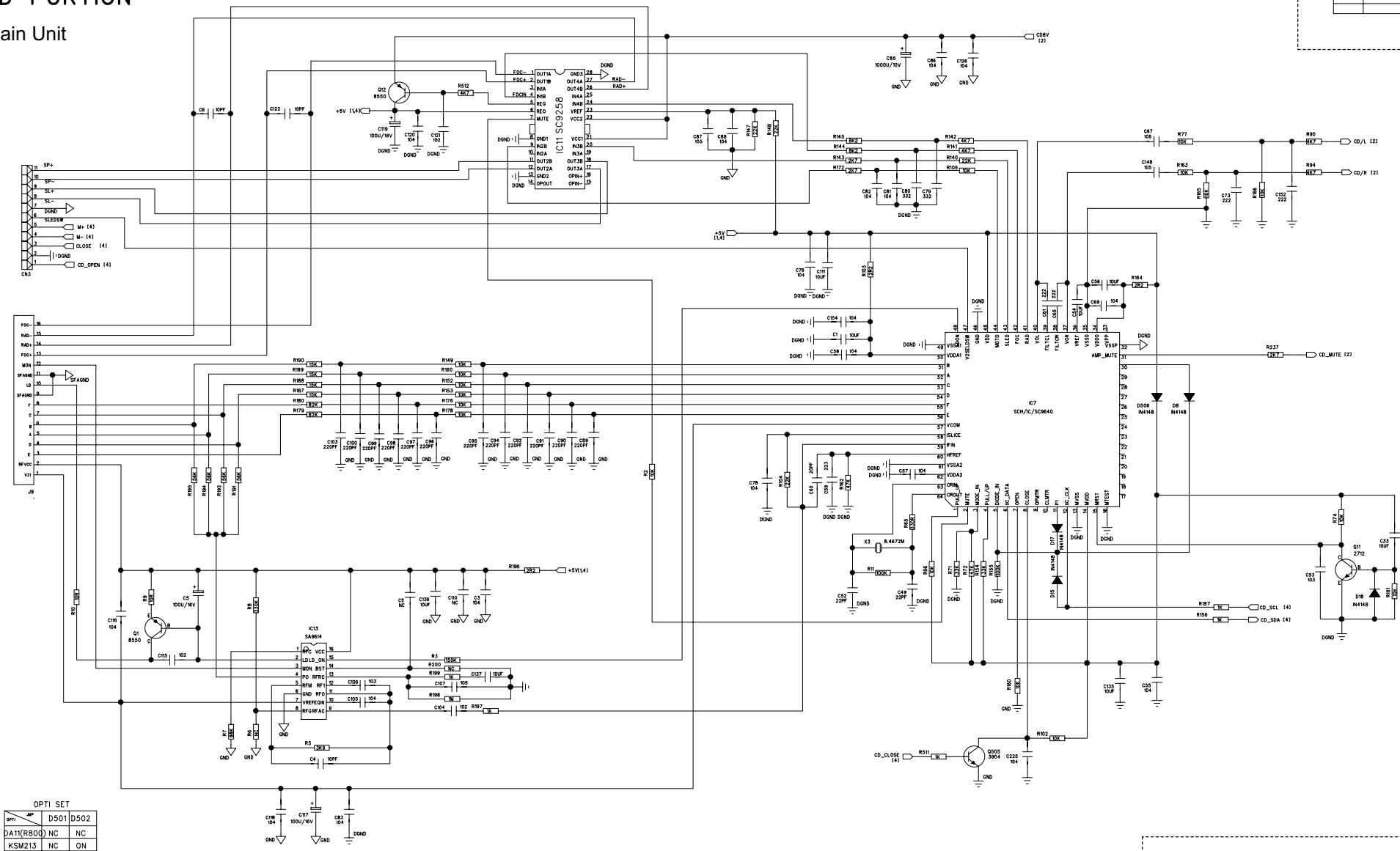
CD PORTION

Main Unit



OPTI SET

OPTI / APP	D501	D502
DA11(R800)	NC	NC
KSM213	NC	ON
G9350H	ON	NC
G9350	ON	ON

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

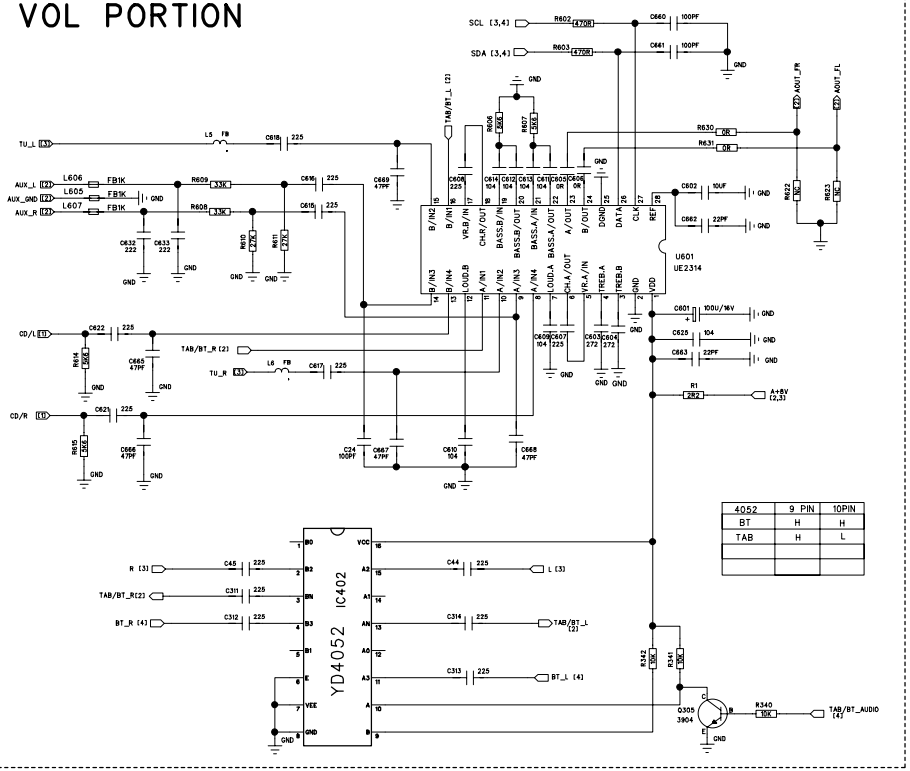
ALCO CONFIDENTIAL

COMPANY CHOP:	PREPARED BY: DATE:	ALCO ELECTRONICS LIMTIED	
	CHECKED BY: DATE:	MODEL NO.: ACS3101E	TITLE: REV: 1
	APPROVED BY: DATE:	CUSTOMER/MODEL NO.:	DRAWING NO.: SIZE: A4
	RELEASED DATE:	SHEET: 1/of1	PRODUCT NAME: SCALE: NS

Main Unit

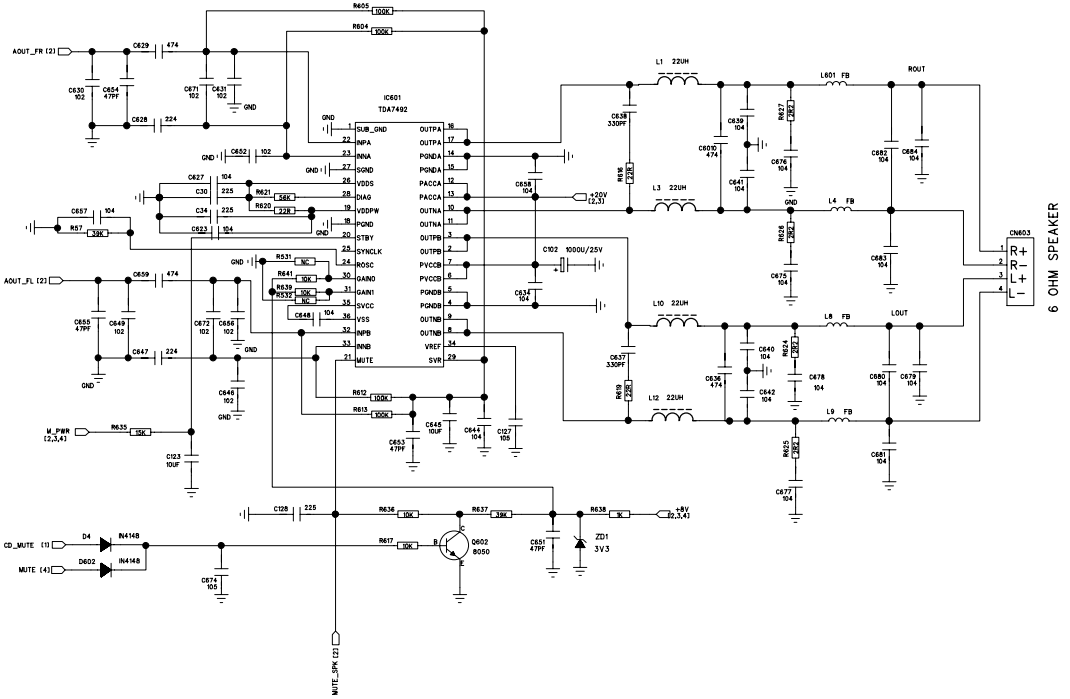
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

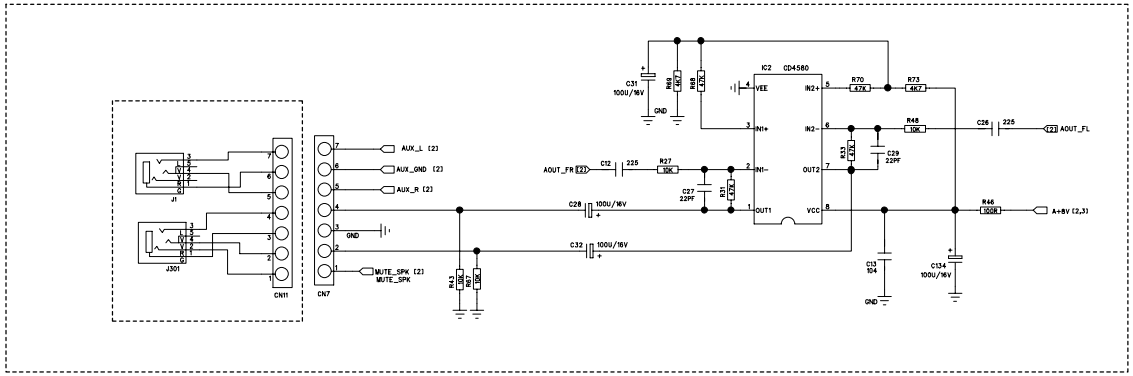
VOL PORTION

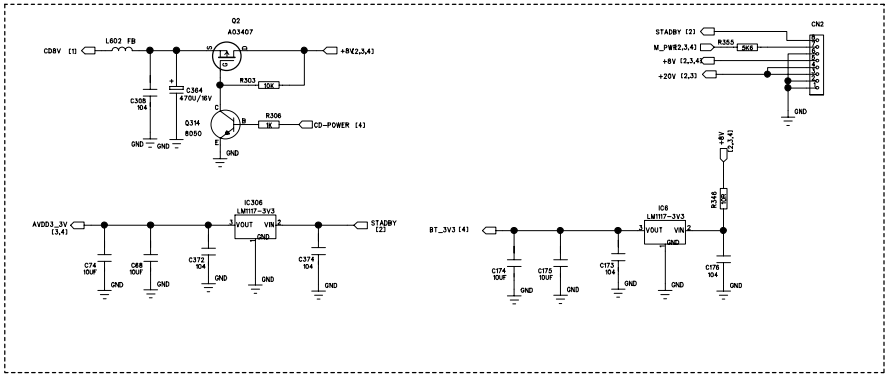


4052	9 PIN	10PIN
BT	H	H
TAB	H	L

AMP PORTION







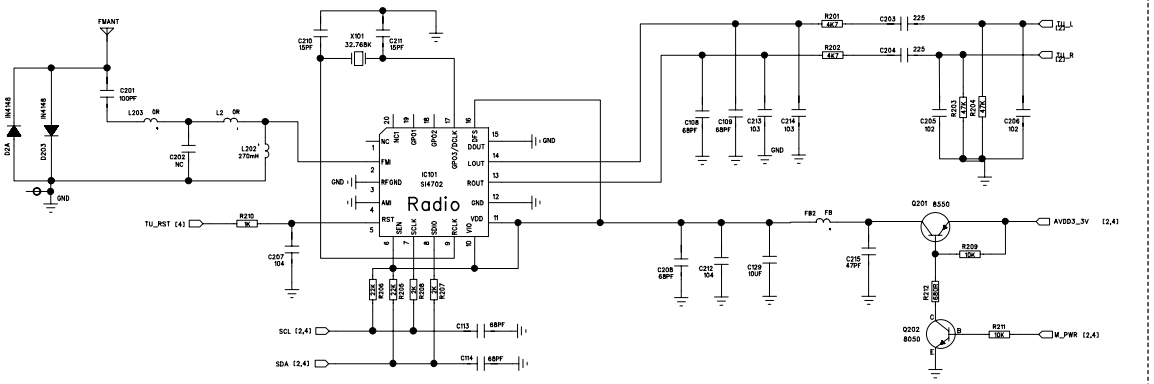
ALCO CONFIDENTIAL

COMPANY CHOP:	PREPARED BY:	DATE:	ALCO ELECTRONICS LIMTIED	
	CHECKED BY:	DATE:	MODEL NO.: ACS3101E	TITLE: REV: 1
	APPROVED BY:	DATE:	CUSTOMER/MODEL NO.:	DRAWING NO.: SIZE: A4
	RELEASED DATE:		SHEET: 1/of1	PRODUCT NAME: SCALE: NS

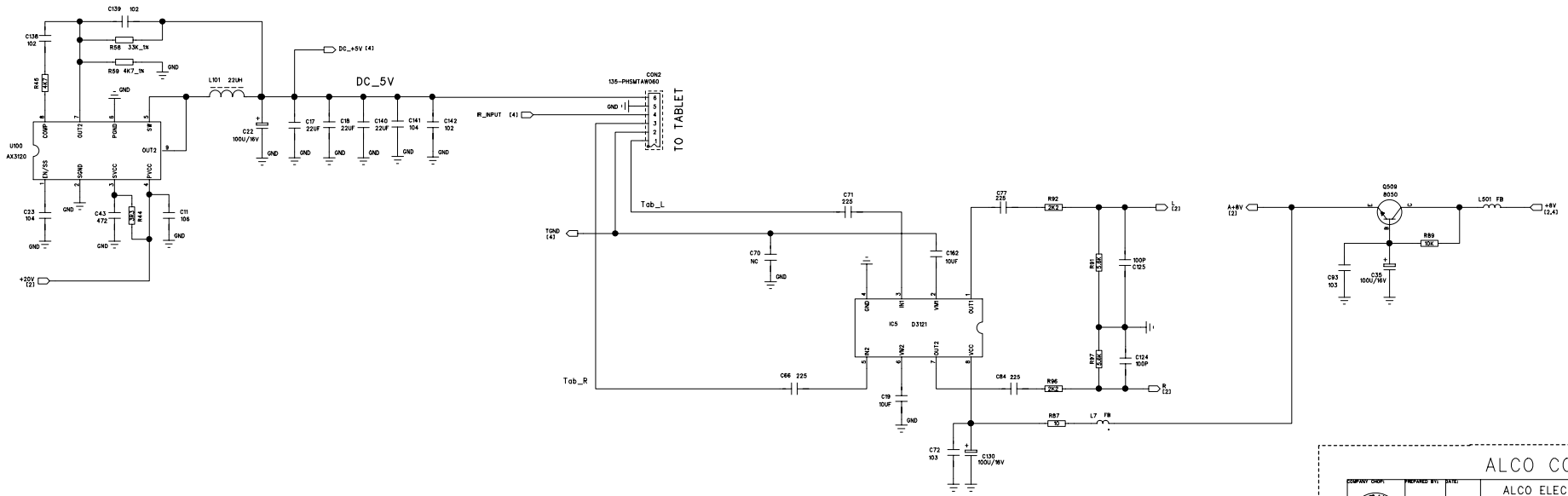
Main Unit

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

TUNER PORTION



DC TO DC PORTION



ALCO CONFIDENTIAL

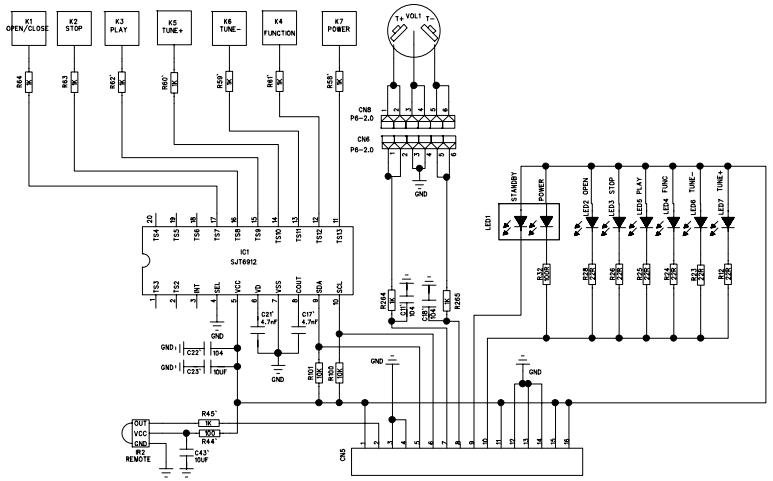
COMPANY CHOP:	PREPARED BY: DATE:	ALCO ELECTRONICS LIMTIED	
	CHECKED BY: DATE:	MODEL NO.: ACS3101E	TITLE: REV: 1
	APPROVED BY: DATE:	CUSTOMER MODEL NO.:	DRAWING NO.: SIZE: A4
	RELEASED DATE:	SHEET: 1/of1	PRODUCT NAME: SCALE: 1/1

Main Unit

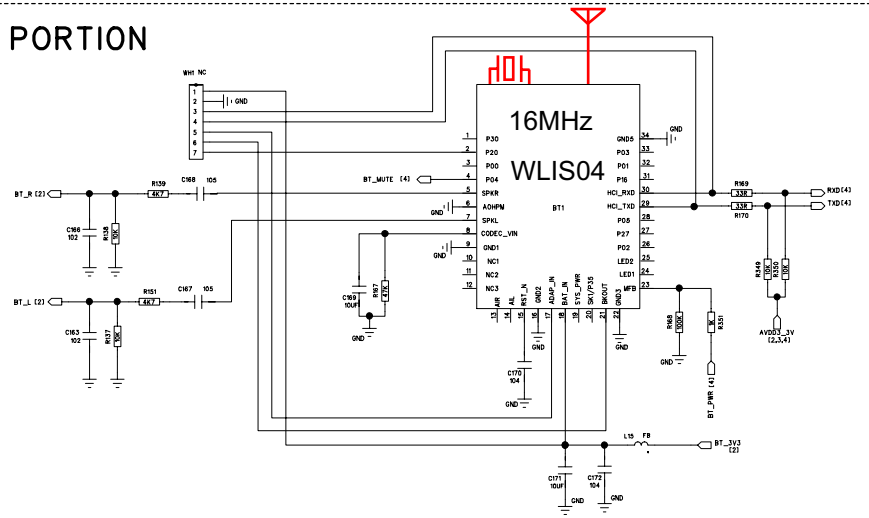
Main Unit Bluetooth
2402MHz - 2480MHz

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

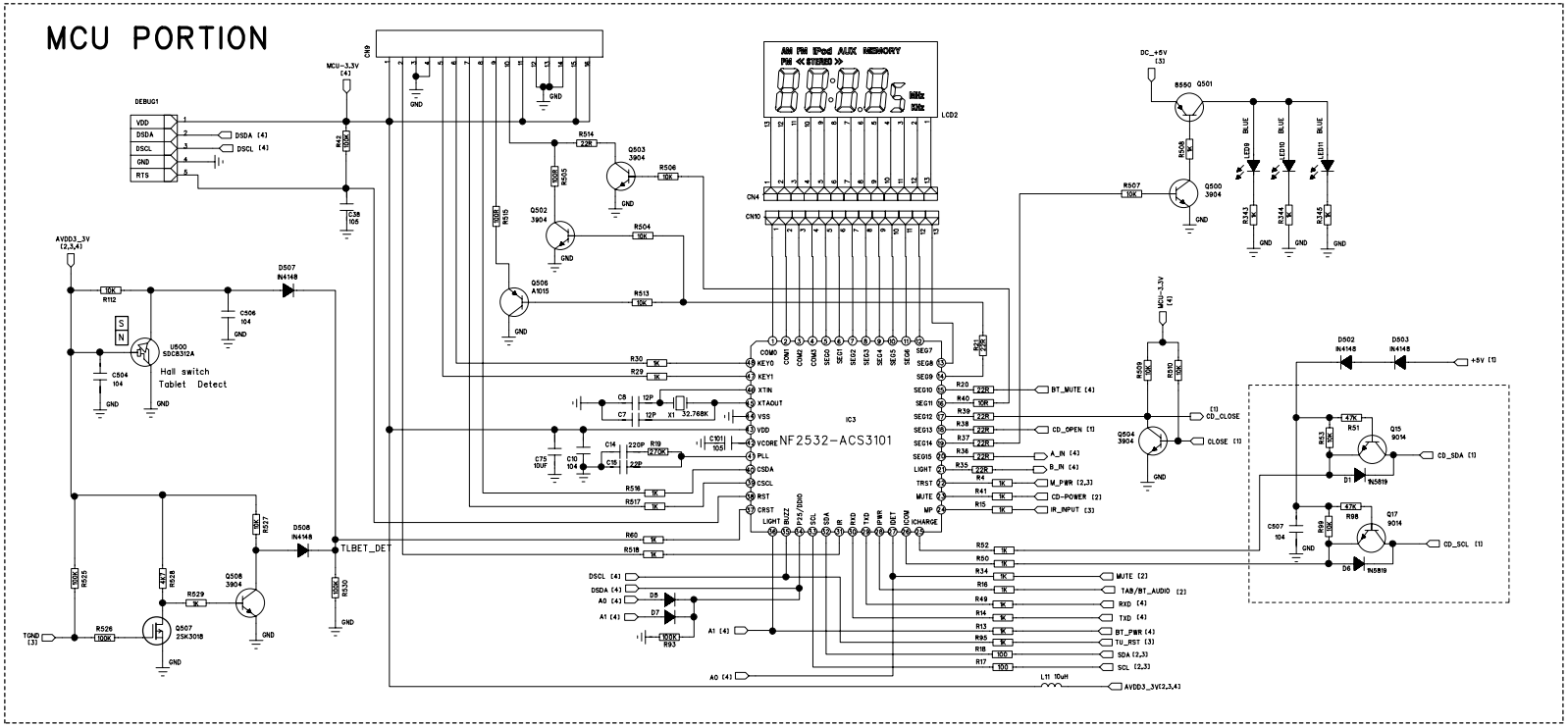
TOUCH KEY PORTION

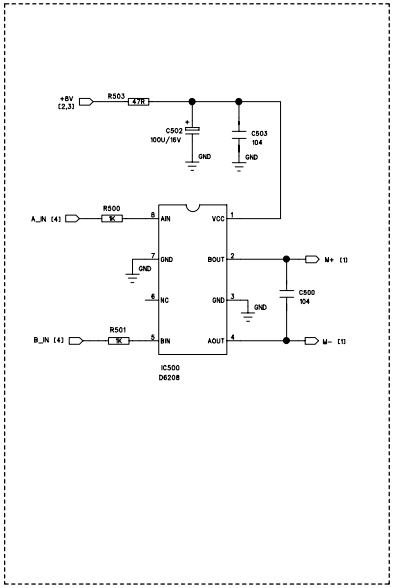


BT PORTION



MCU PORTION





ALCO CONFIDENTIAL

COMPANY CHOP:	PREPARED BY:	DATE:	ALCO ELECTRONICS LIMTIED
	CHECKED BY:	DATE:	MODEL NO.: ACS3101E
	APPROVED BY:	DATE:	CUSTOMER MODEL NO.:
	RELEASED DATE:		SHEET: 1/of1

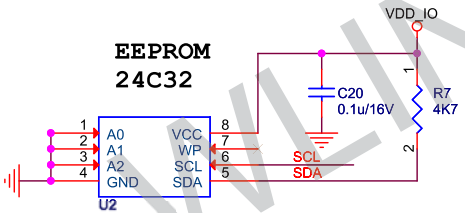
GPIO vs. DEFAULT APP FUNCTION

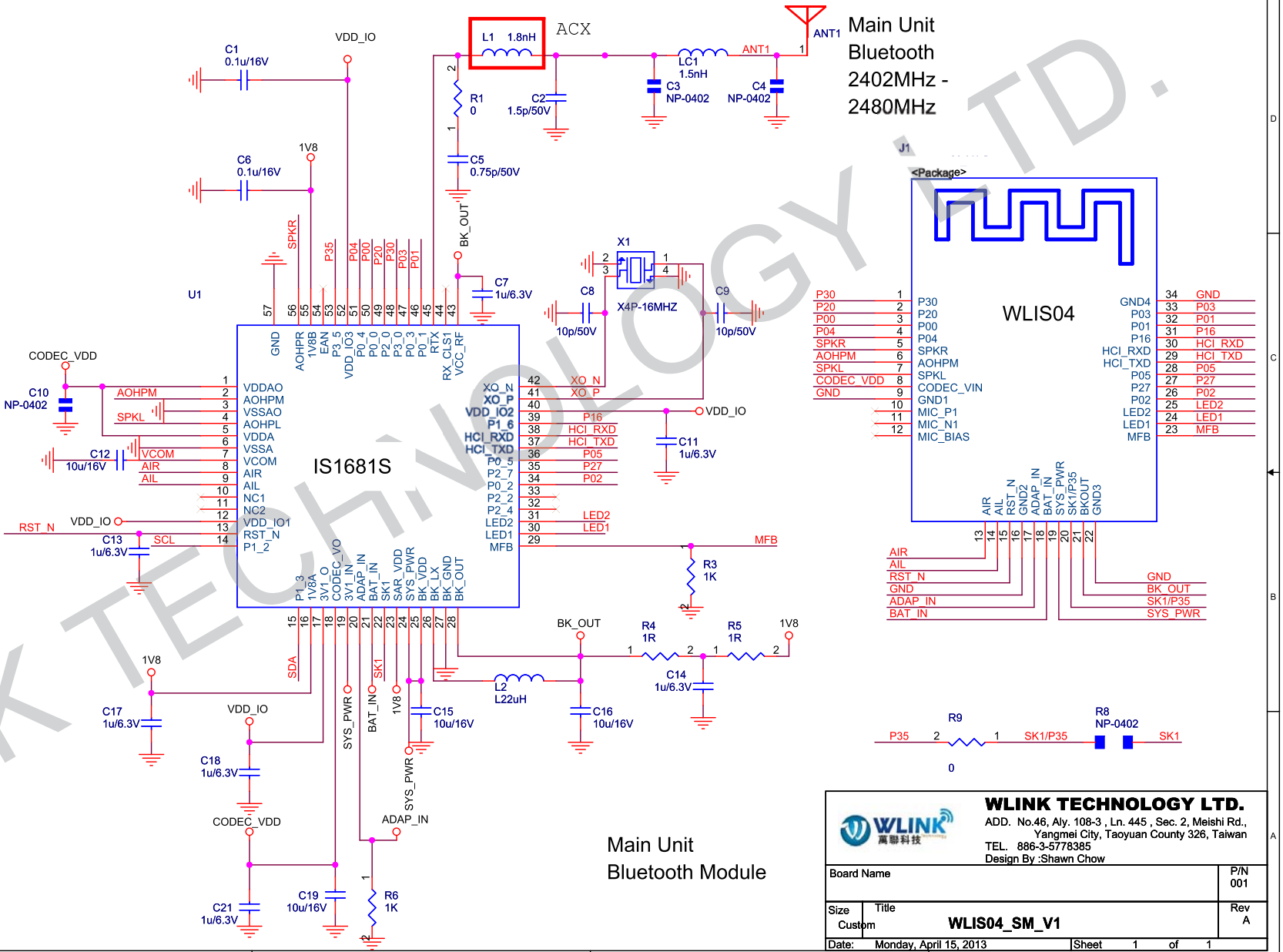
GPIO	FUNCTION
P1_2	EEPROM SCL
P1_3	EEPROM SDA
P0_1	VOL+
P1_6	VOL-
P2_7	FWD
P0_5	REV
P0_2	PLAY/PAUSE
P3_5	BUZZER DRIVER (*OPTIONAL)

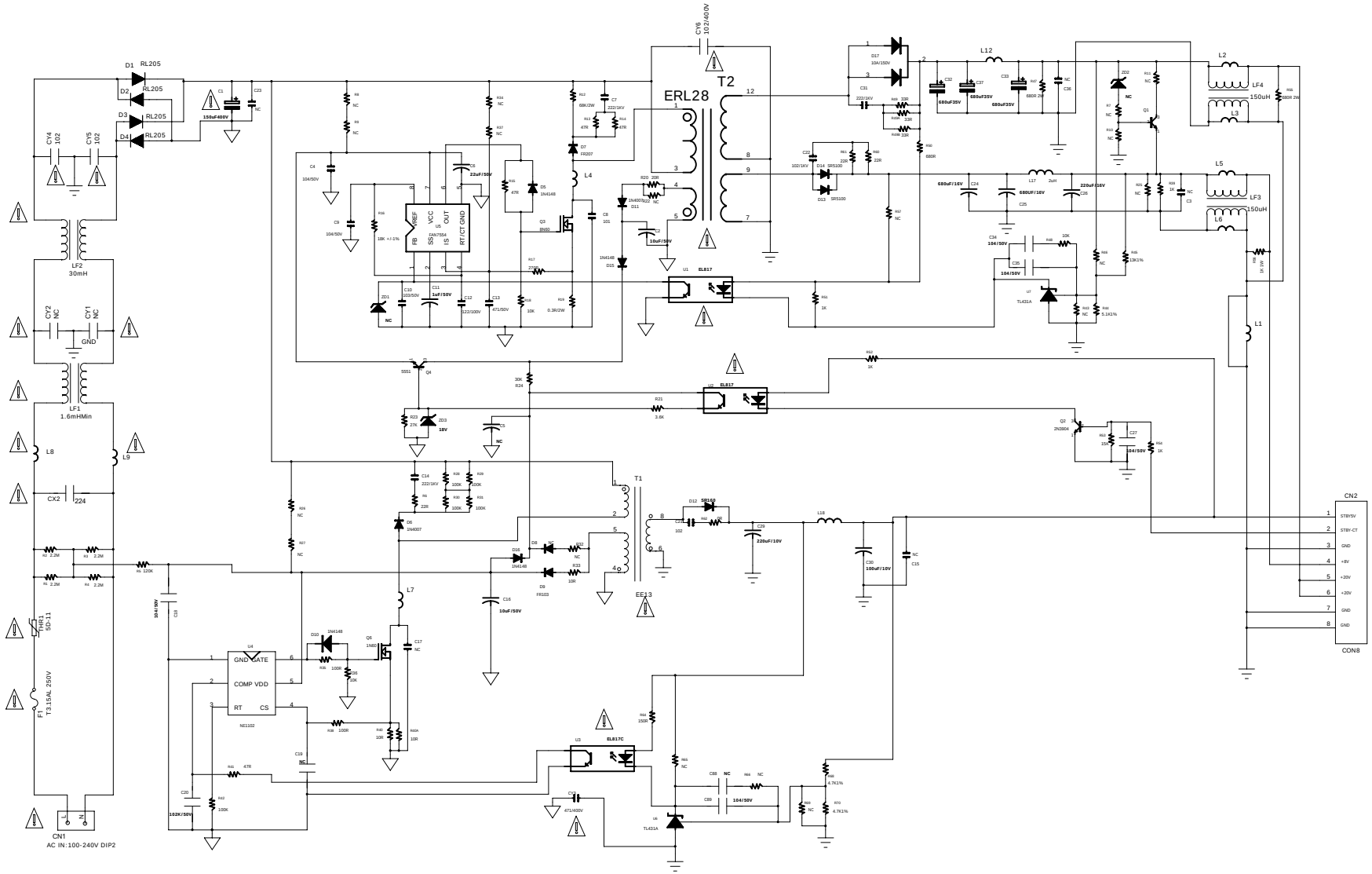
CONFIGURATION TABLE

P2_0	P2_4	MODE
H	H	APPLICATION
L	H	BASEBAND(IBDK MODE)
L	L	BOOT MODE

EAN L: EXT FLASH, H: INT ROM

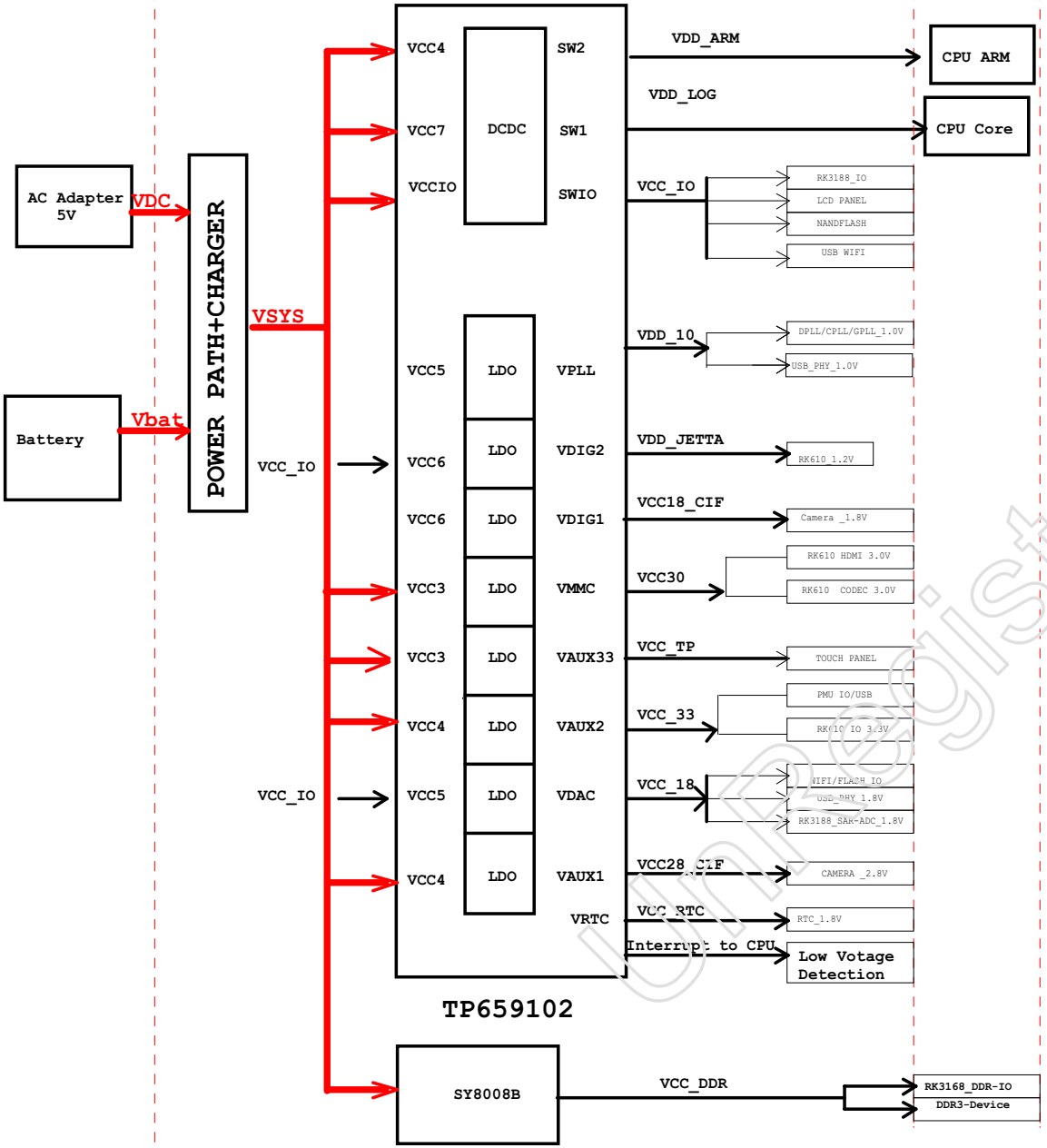


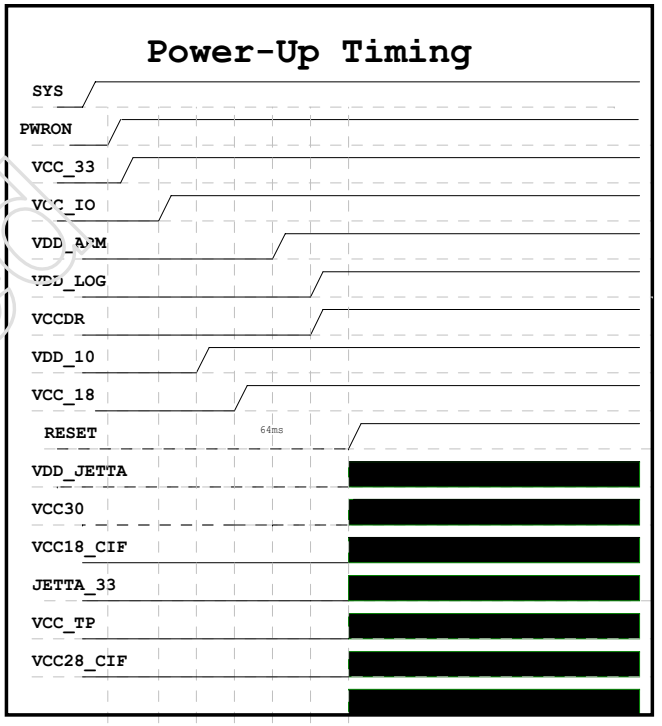




Main Unit Switching Mode Power Supply

VER	REASON	BY	SIGNATURE	DATE	SHENZHEN ACT INDUSTARIAL CO.,LTD
A/0	第一次下发	欧阳效明	DESIGN:欧阳效明	2013.7.24	MODEL:ACS3101 V1.0
			APPROVED:		TITLE:ACS3101 V1.0-SCH
					VER:A/1 PAGE:1 OF 1

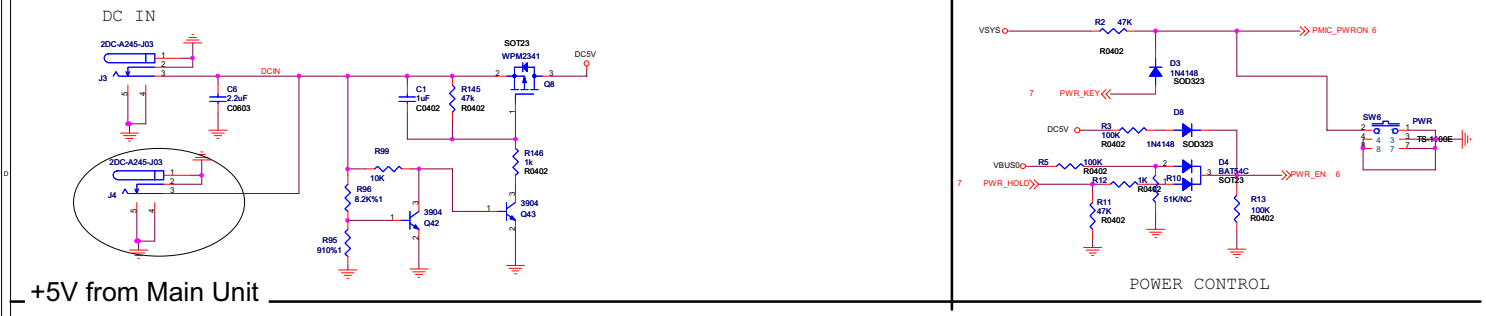


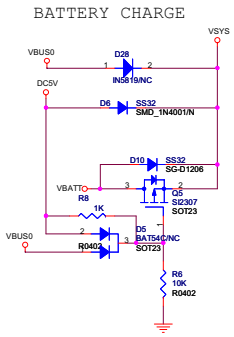


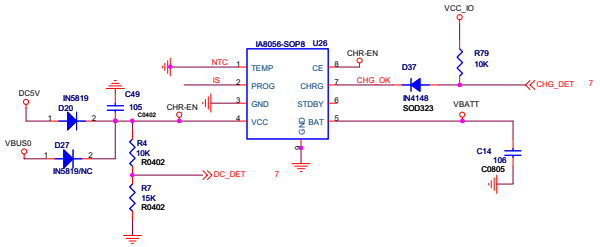
POWER DIAGRAM

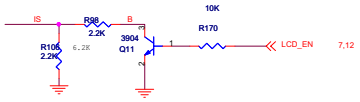
Tablet

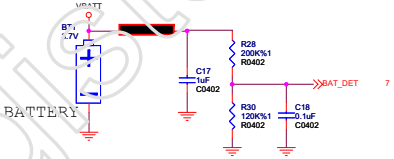
Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title: System power diagram	
File: RK3168_REF_TPS659102_1CELL	REV: 1.1
Create Date: Wednesday, March 02, 2011	Page Num: 4
Modify Date: Monday, August 05, 2013	Page Total: 15











Rockchip 瑞芯微电子 福州瑞芯微电子有限公司	
Title: DC/Charge	
File: RK3168_REF_TPS659102_1CELL	REV: 1.1
Create Date: Thursday, November 24, 2011	Page Num: 5
Modify Date: Monday, August 19, 2013	Page Total: 15

Tablet

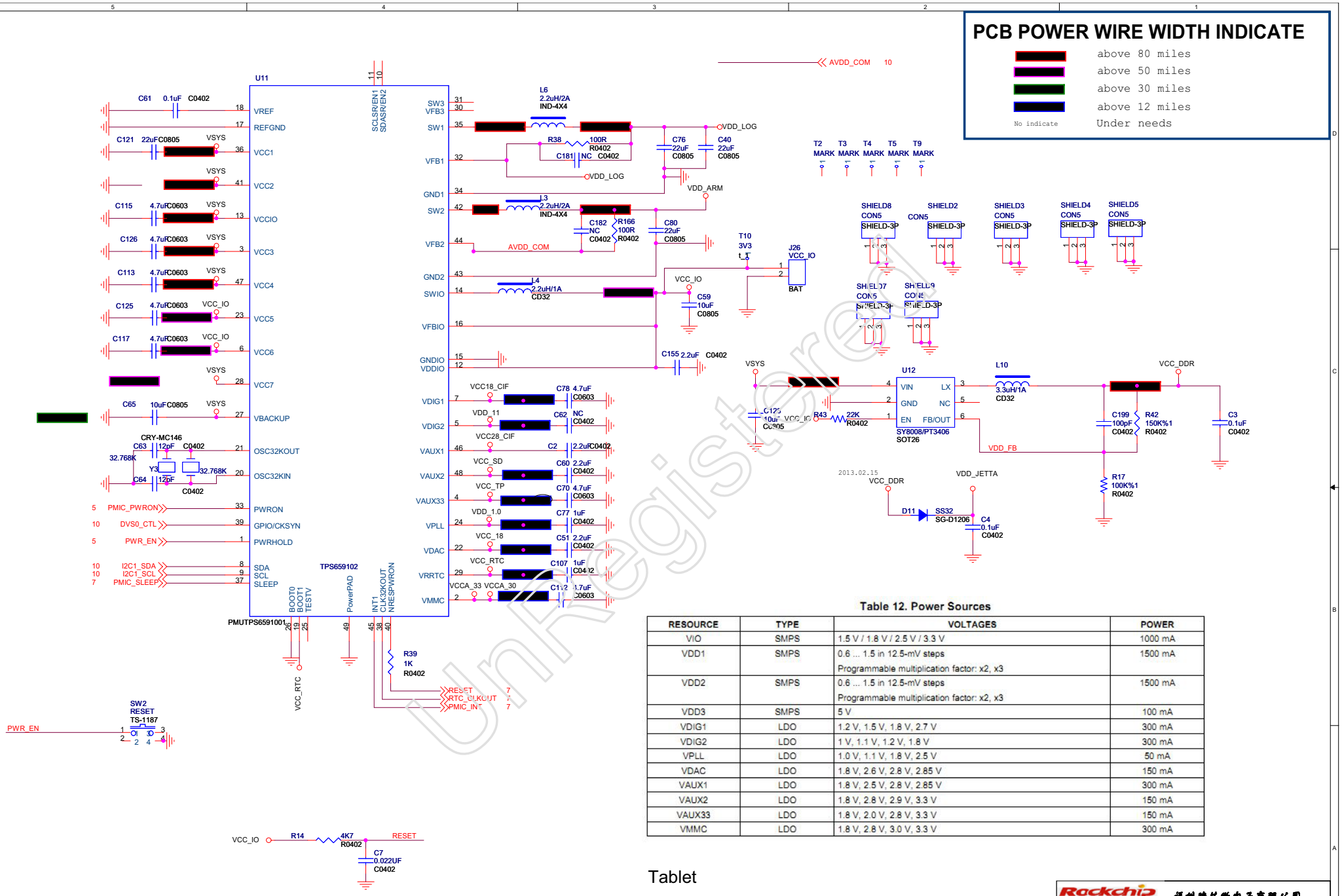
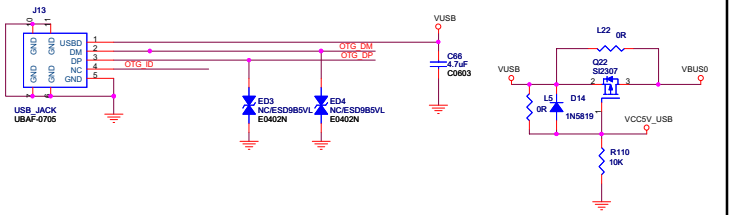


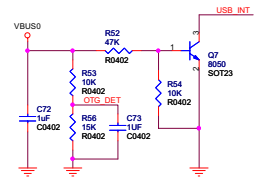
Table 12. Power Sources

RESOURCE	TYPE	VOLTAGES	POWER
VIO	SMPS	1.5 V / 1.8 V / 2.5 V / 3.3 V	1000 mA
VDD1	SMPS	0.6 ... 1.5 in 12.5-mV steps Programmable multiplication factor: x2, x3	1500 mA
VDD2	SMPS	0.6 ... 1.5 in 12.5-mV steps Programmable multiplication factor: x2, x3	1500 mA
VDD3	SMPS	5 V	100 mA
VDIG1	LDO	1.2 V, 1.5 V, 1.8 V, 2.7 V	300 mA
VDIG2	LDO	1 V, 1.1 V, 1.2 V, 1.8 V	300 mA
VPLL	LDO	1.0 V, 1.1 V, 1.8 V, 2.5 V	50 mA
VDAC	LDO	1.8 V, 2.6 V, 2.8 V, 2.85 V	150 mA
VAUX1	LDO	1.8 V, 2.5 V, 2.8 V, 2.85 V	300 mA
VAUX2	LDO	1.8 V, 2.8 V, 2.9 V, 3.3 V	150 mA
VAUX33	LDO	1.8 V, 2.0 V, 2.8 V, 3.3 V	150 mA
VMMC	LDO	1.8 V, 2.8 V, 3.0 V, 3.3 V	300 mA

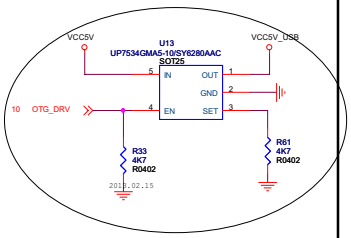
Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title: System power	
File: RK3168_REF_TPS659102_1CELL	REV: 1.1
Create Date: Tuesday, November 29, 2011	Page Num: 6
Modify Date: Monday, August 19, 2013	Page Total: 15

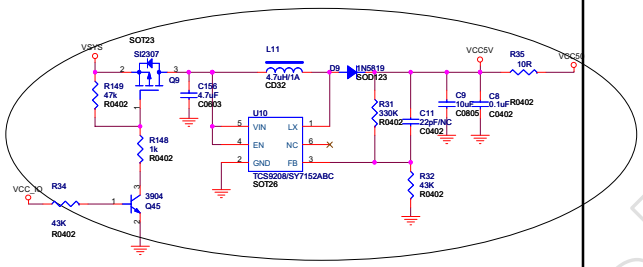


USB OTG CONNECTOR

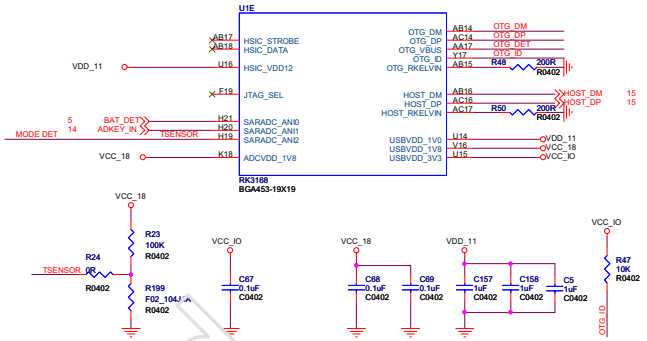


USB_DET

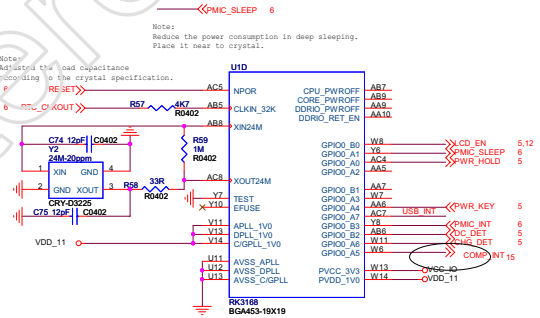




USB HOST POWER Curent limit Imin=750mA



RK3168_E

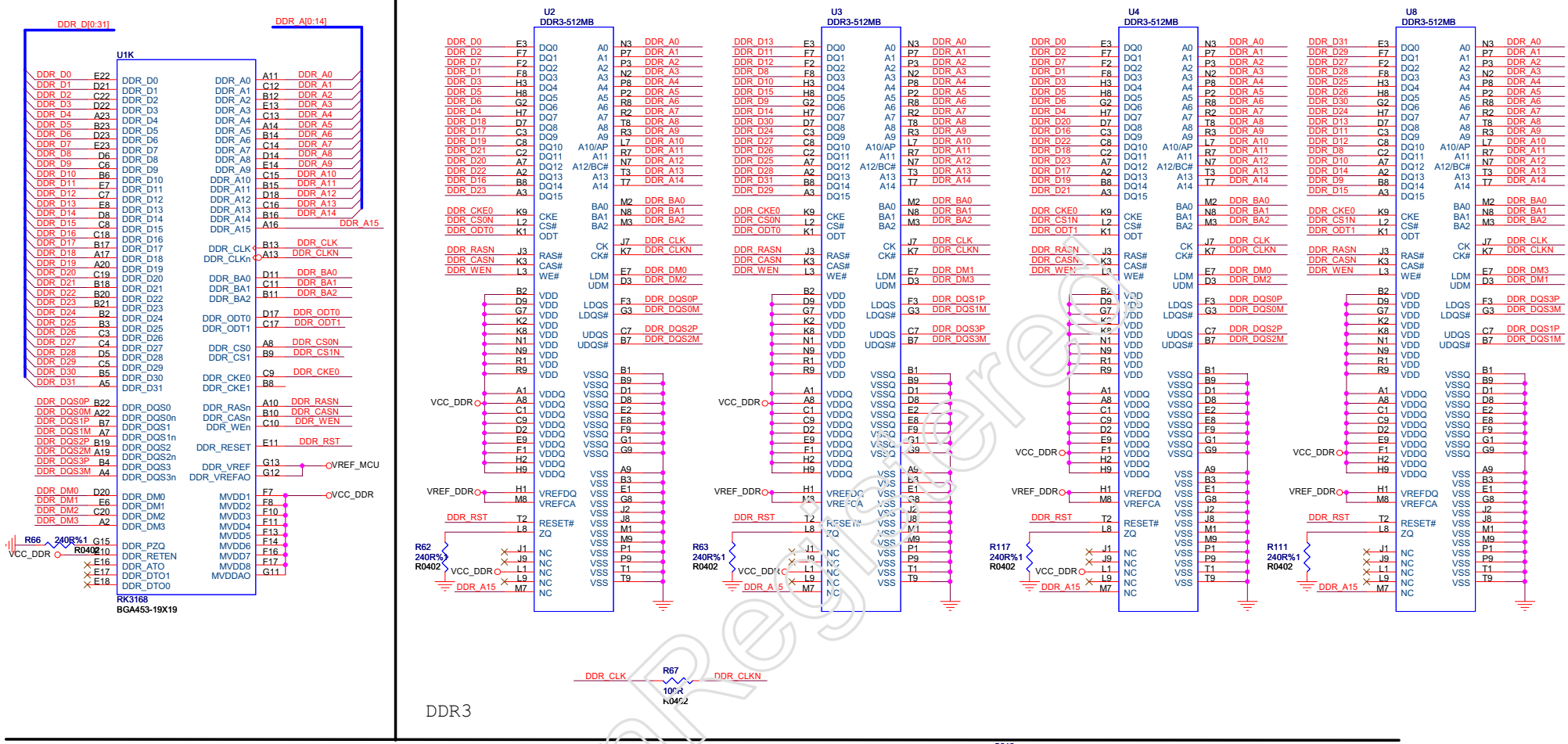


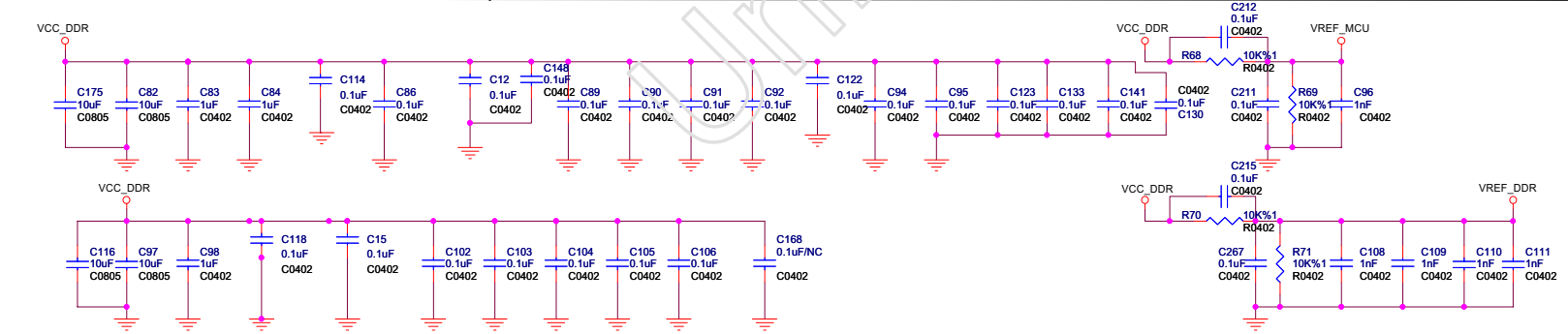
RK3168_D

Note:
If use RK901,PLS no paste these components.

Rockchip 福州瑞芯微电子有限公司	
Title: USB OTG/VIB	
File: RK3168_REF_TPS659102_1CELL	REV: 1.1
Create Date: Tuesday, November 29, 2011	Page Num: 7
Modify Date: Monday, August 19, 2013	Page Total: 15

Tablet





DDR FILTER

Tablet

Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title: DDR3	
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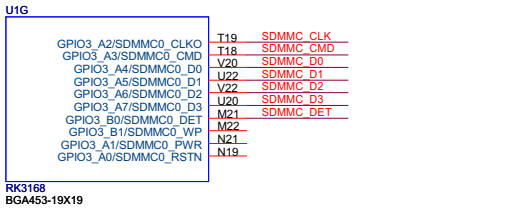
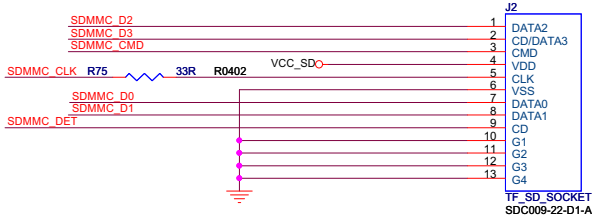
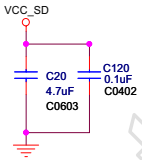
Create Date: Tuesday, November 09, 2010	Page Num: 8
Modify Date: Monday, August 19, 2013	Page Total:15

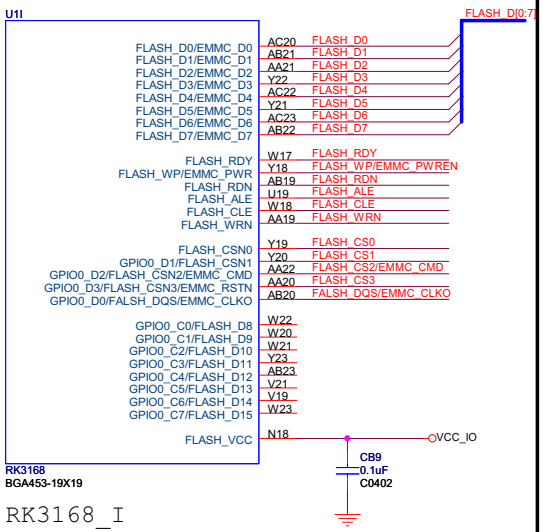


RK3168_G



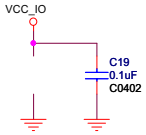


TF CARD

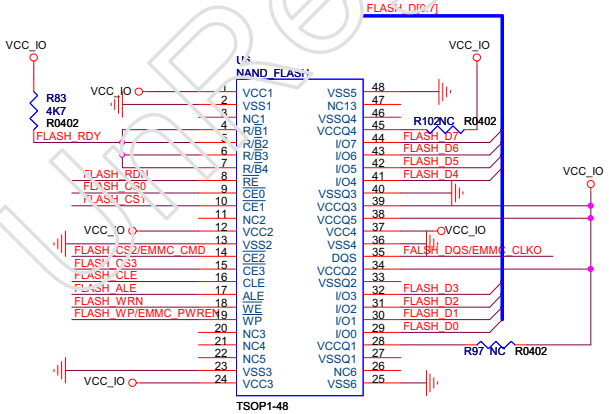


RK3168_I

INAND(OPTION3)

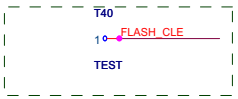


LGA NANDFLASH(OPTION2)



NAND FLASH(OPTION1)

Note:
Reserve a PAD.



Tablet

Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title: Flash/TF card	
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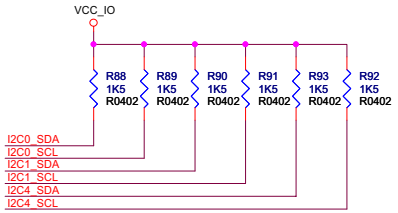
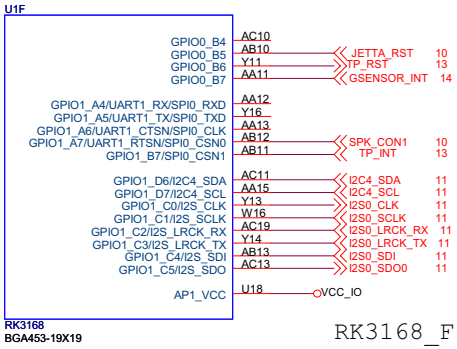
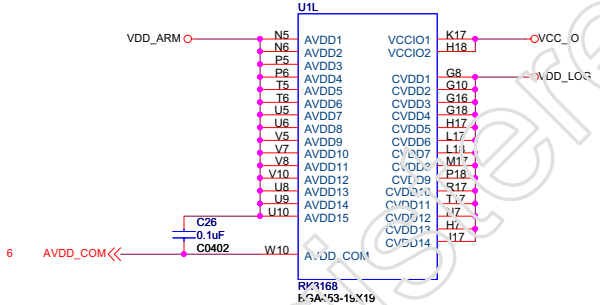
Create Date: Thursday, October 14, 2010	Page Num: 9
Modify Date: Wednesday, August 07, 2013	Page Total: 15



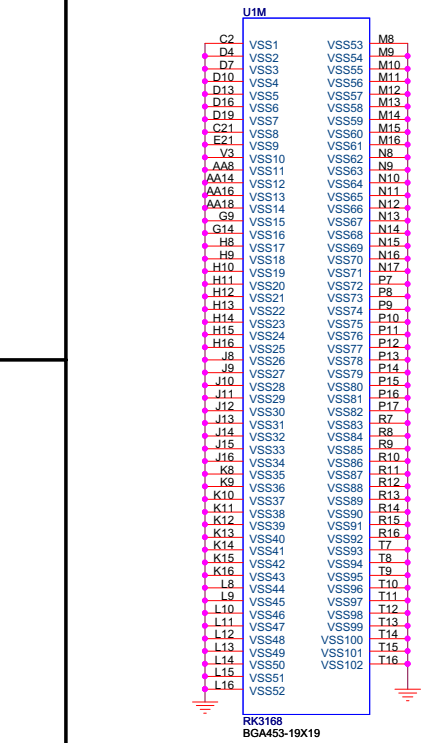


RK3168_F

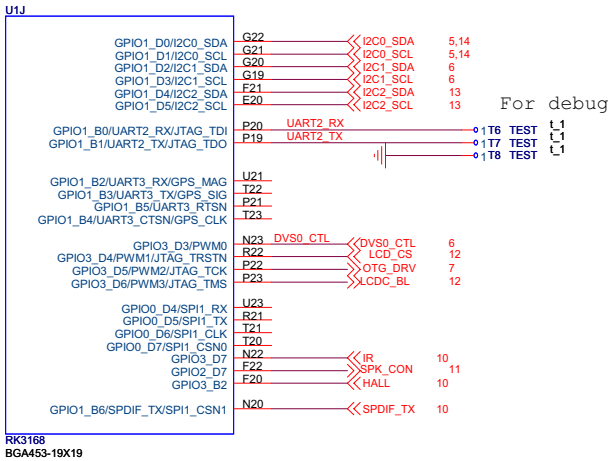


RK3168_L

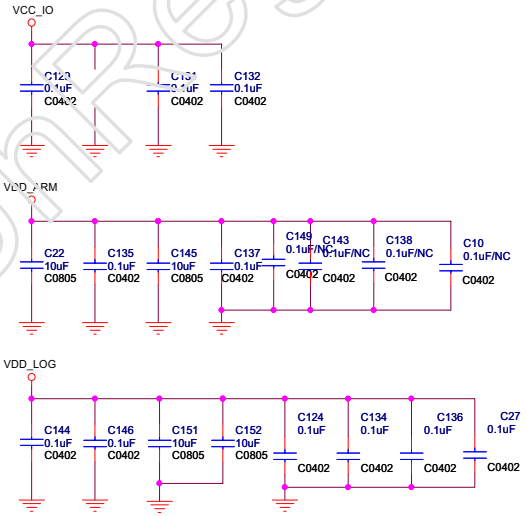
Note:
Place these filter capacitors under CPU.



RK3168_M



RK3168_J

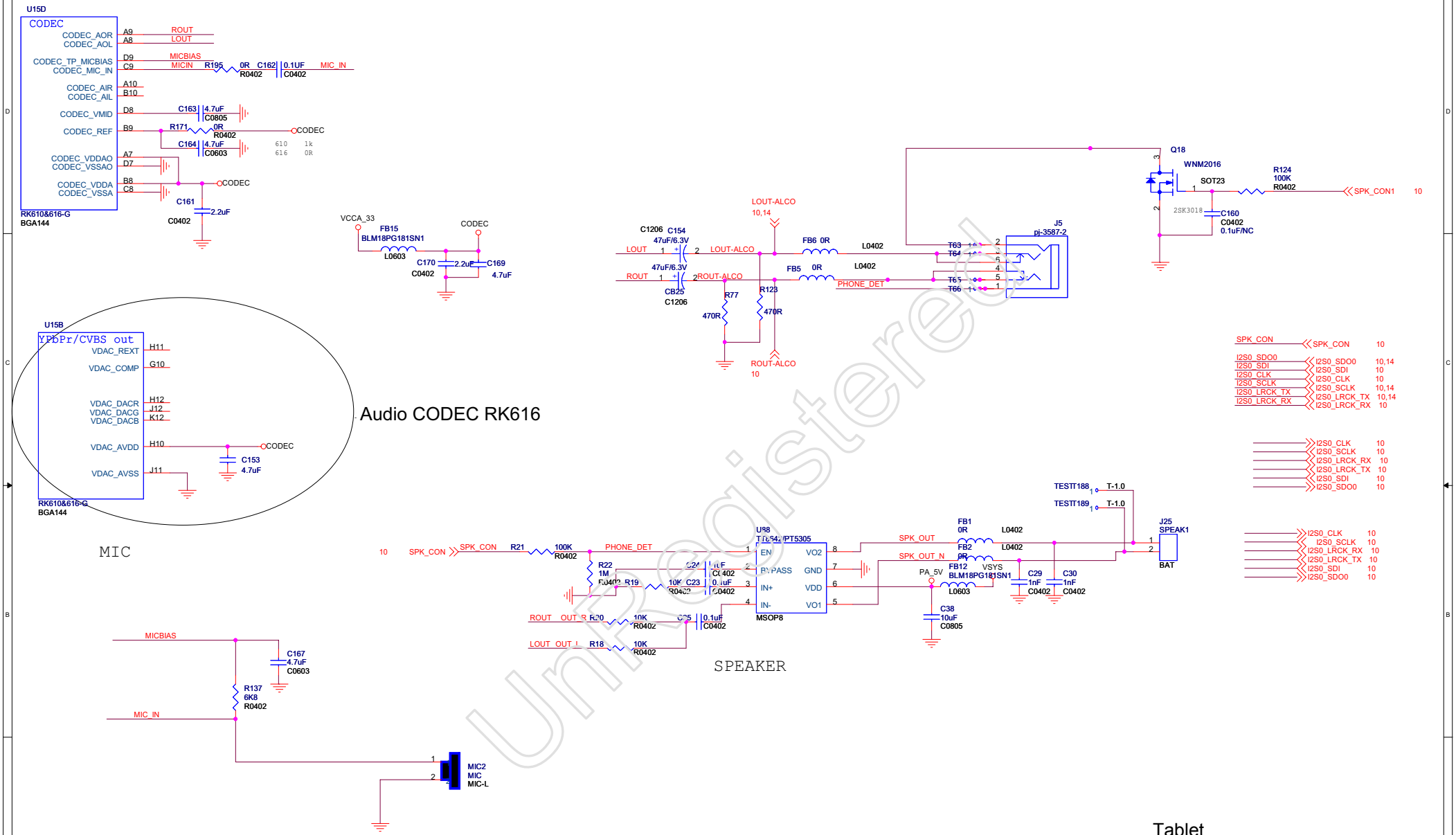


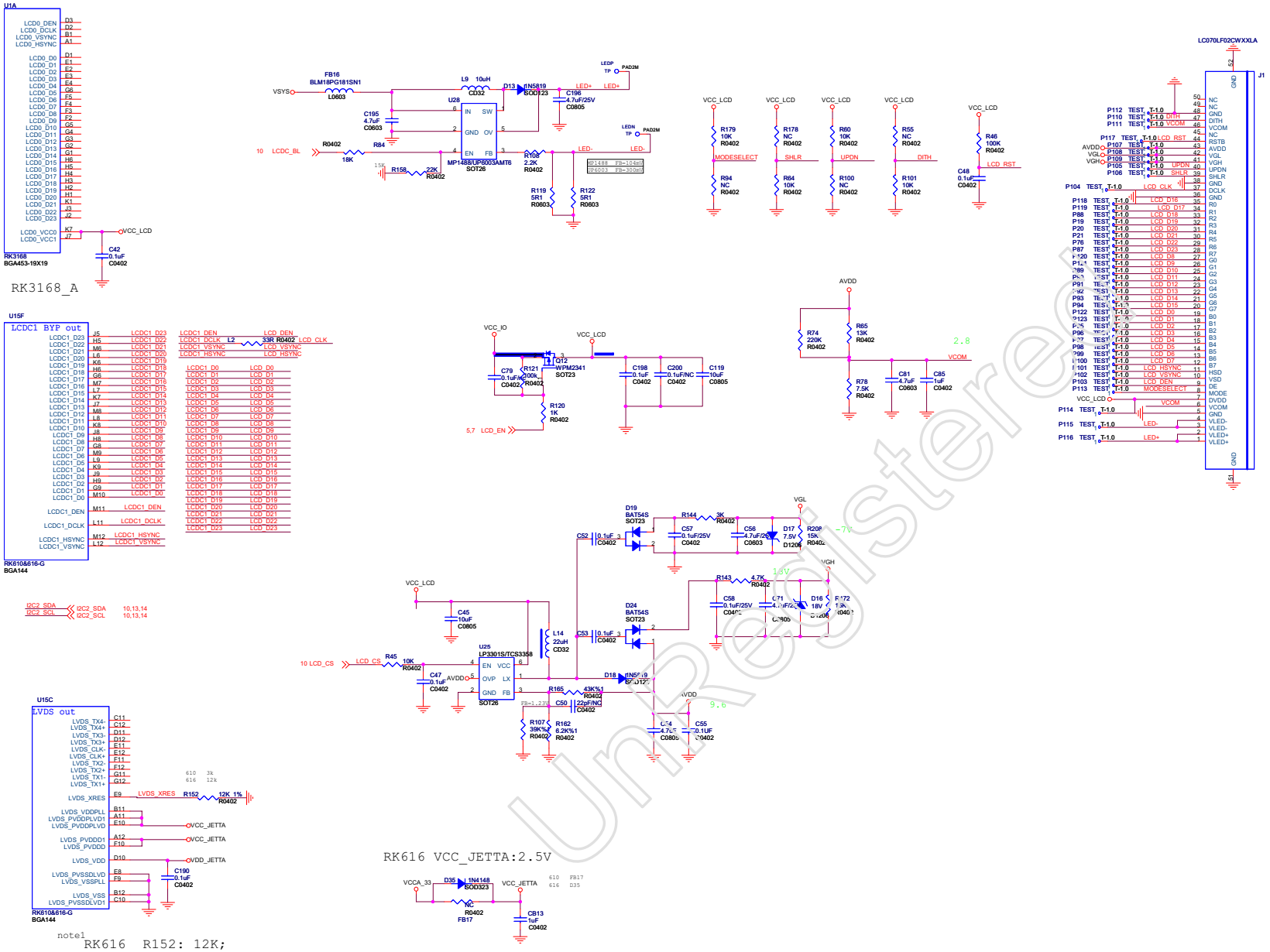
RK3188 CORE POWER FILTER

Tablet

Rockchip 瑞芯微电子 福州瑞芯微电子有限公司

Title:	GPIO
File:	RK3168_REF_TPS659102_1CELL
REV:	1.1
Create Date:	Monday, October 18, 2010
Page Num:	10
Modify Date:	Monday, August 19, 2013
Page Total:	15

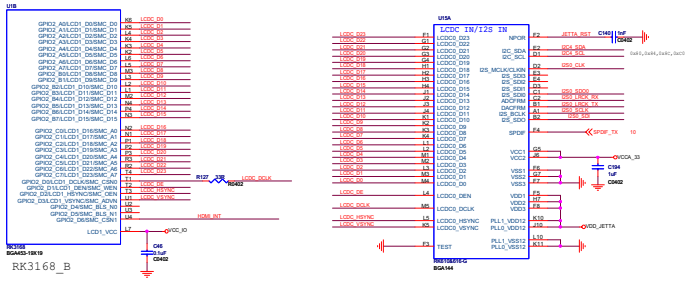


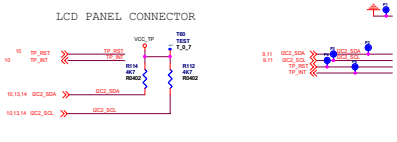


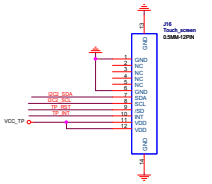
Correspondence between LCDC DATA and RGB

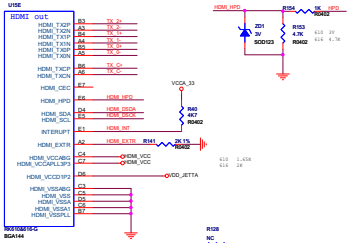
LCDC_D0	B0	LCDC_D12	G4
LCDC_D1	B1	LCDC_D13	G5
LCDC_D2	B2	LCDC_D14	G6
LCDC_D3	B3	LCDC_D15	G7
LCDC_D4	B4	LCDC_D16	R0
LCDC_D5	B5	LCDC_D17	R1
LCDC_D6	B6	LCDC_D18	R2
LCDC_D7	B7	LCDC_D19	R3
LCDC_D8	G0	LCDC_D20	R4
LCDC_D9	G1	LCDC_D21	R5
LCDC_D10	G2	LCDC_D22	R6
LCDC_D11	G3	LCDC_D23	R7

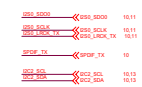
Rockchip 瑞芯微电子有限公司	
Title: LCD panel	
File: RK3168_REF_TPS659102_1CELL	Ver: 1.1
Create Date: Friday, October 15, 2010	Page Num: 12
Modify Date: Monday, August 19, 2013	Page Total: 15

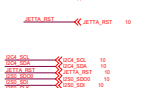


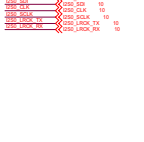


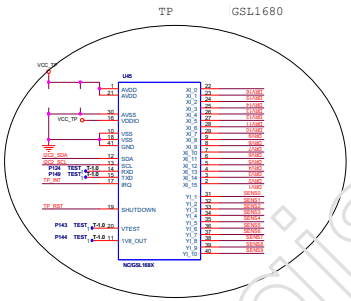


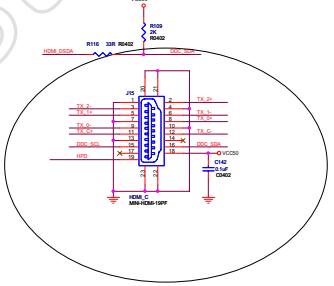








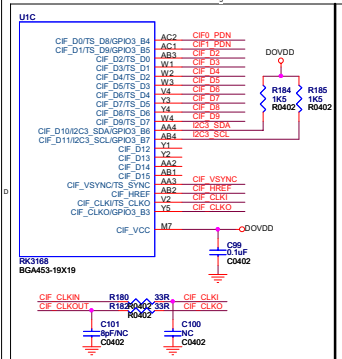




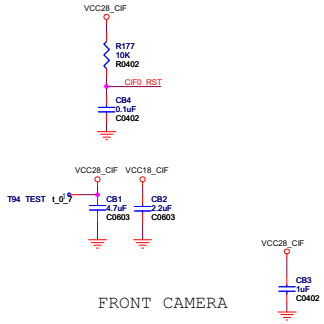
RK616 R116: 2K;

HDMI RK616

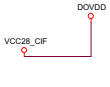
Tablet

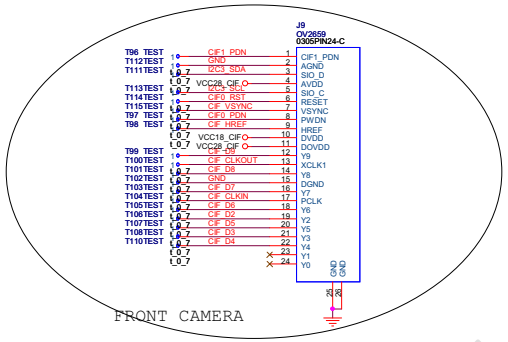


RK3168_C



FRONT CAMERA



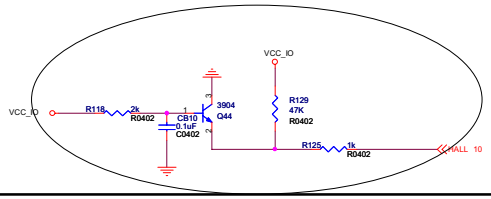


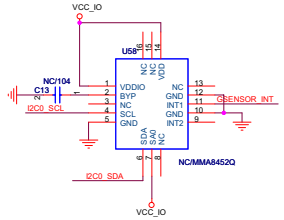
FRONT CAMERA

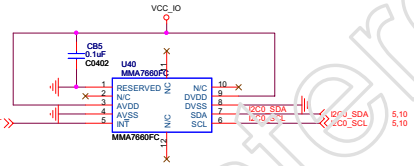
no camera

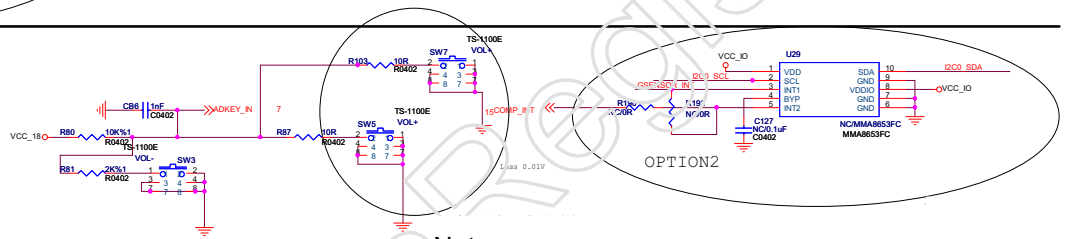
Note: If using other sensor modules,
follow to the requirements of SPEC on the power supply.

Hall sensor





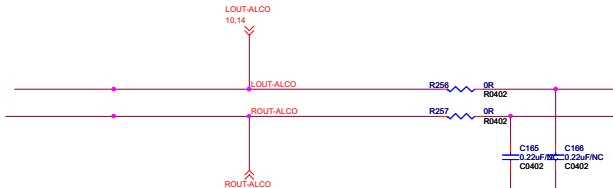


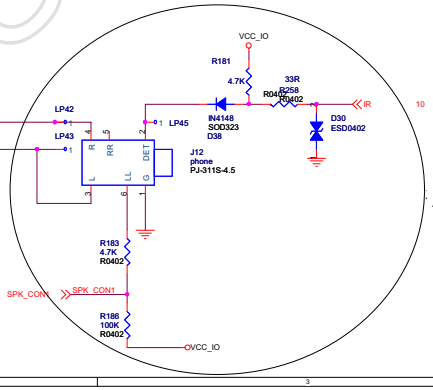


OPTION2

Not use

When the system power on, the Adkey_in level is 0V, RK31 enter into recovery mode.

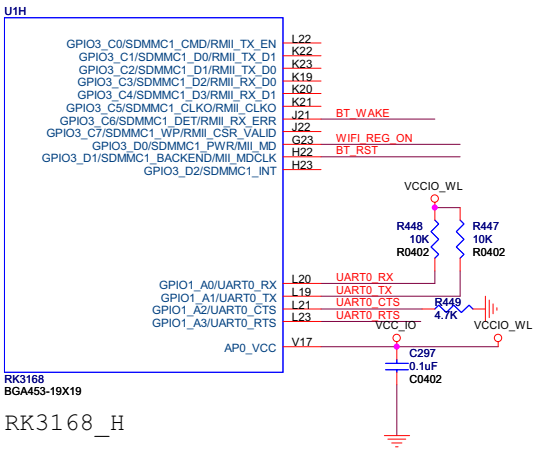




Analog with IR to Main Unit

Tablet

Rockchip 福州瑞芯微电子有限公司	
Title: Camera/G_Sensor/Key/COMP/IR	
File: RK3168_REF_TPS659102_1CELL REV: 1.1	
Create Date: Friday, October 15, 2010	Page Num: 14
Modify Date: Monday, August 19, 2013	Page Total: 15

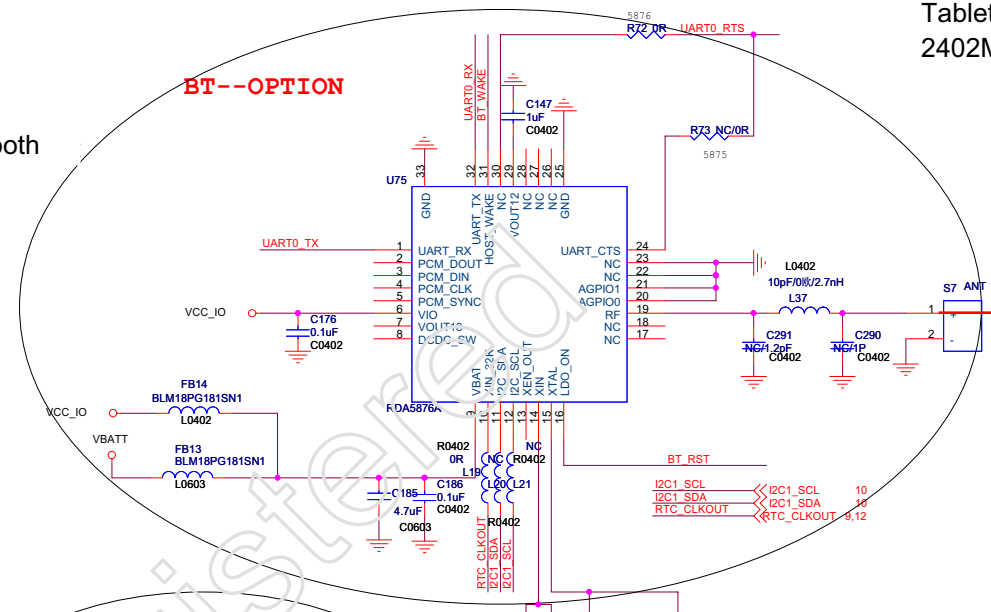


RK3168_H

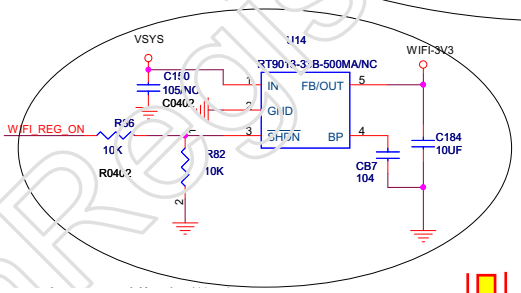
Note :PLS design the RF under RK RF LAYOUT guide;
For more suggestions, please refer to the SPEC
of the wireless IC

Tablet Bluetooth

BT--OPTION

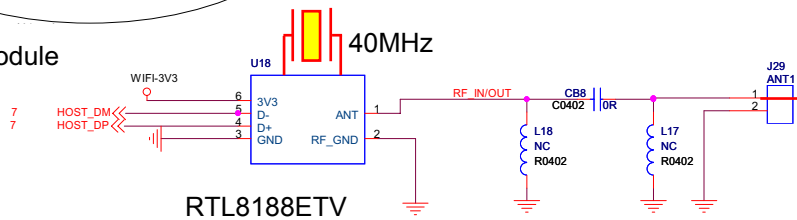


Tablet Bluetooth
2402MHz - 2480MHz



LDO for Tablet WiFi module

Tablet WiFi
802.11b/g/n(HT20)
2412MHz - 2462MHz
802.11n(HT40)
2422MHz - 2452MHz



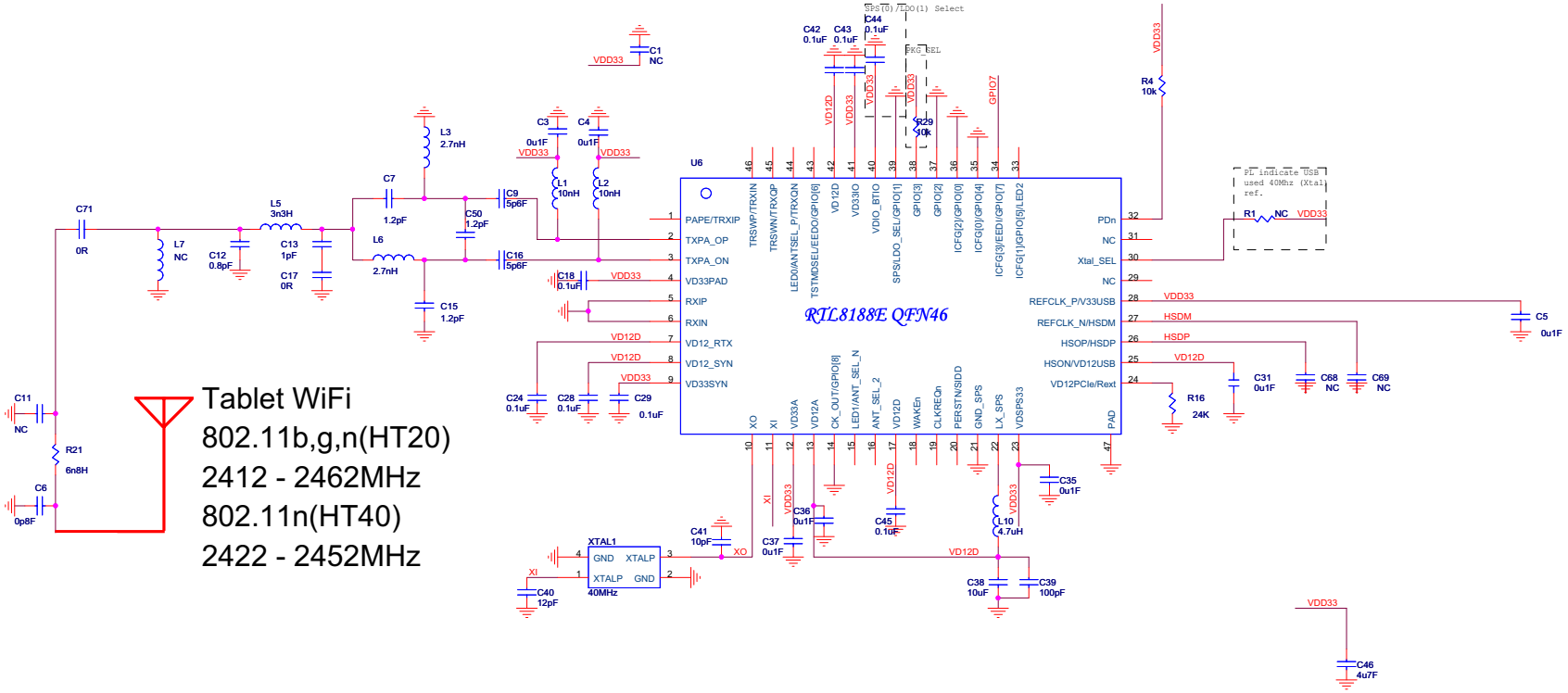
RTL8188ETV

Tablet

Rockchip 瑞芯微电子 福州瑞芯微电子有限公司

Title: WIFI	
File:RK3168_REF_TPS659102_1CELL	REV:1.1
Create Date: Friday, October 15, 2010	Page Num: 15
Modify Date: Monday, August 19, 2013	Page Total:15

UD88E00-1V0	initial	20120117
	delet R3,R10,R11,R32,R40	20120210
	add C70,C71	
UD88E00-1V1	update ANT matching value , L5, C13	20120326



Tablet WIFI Module RTL8188ETV

Title	UD88E00-1V0		
Size	Document Number Custom<Doc>		Rev 1V0
Date:	Thursday, April 05, 2012	Sheet 1 of 1	