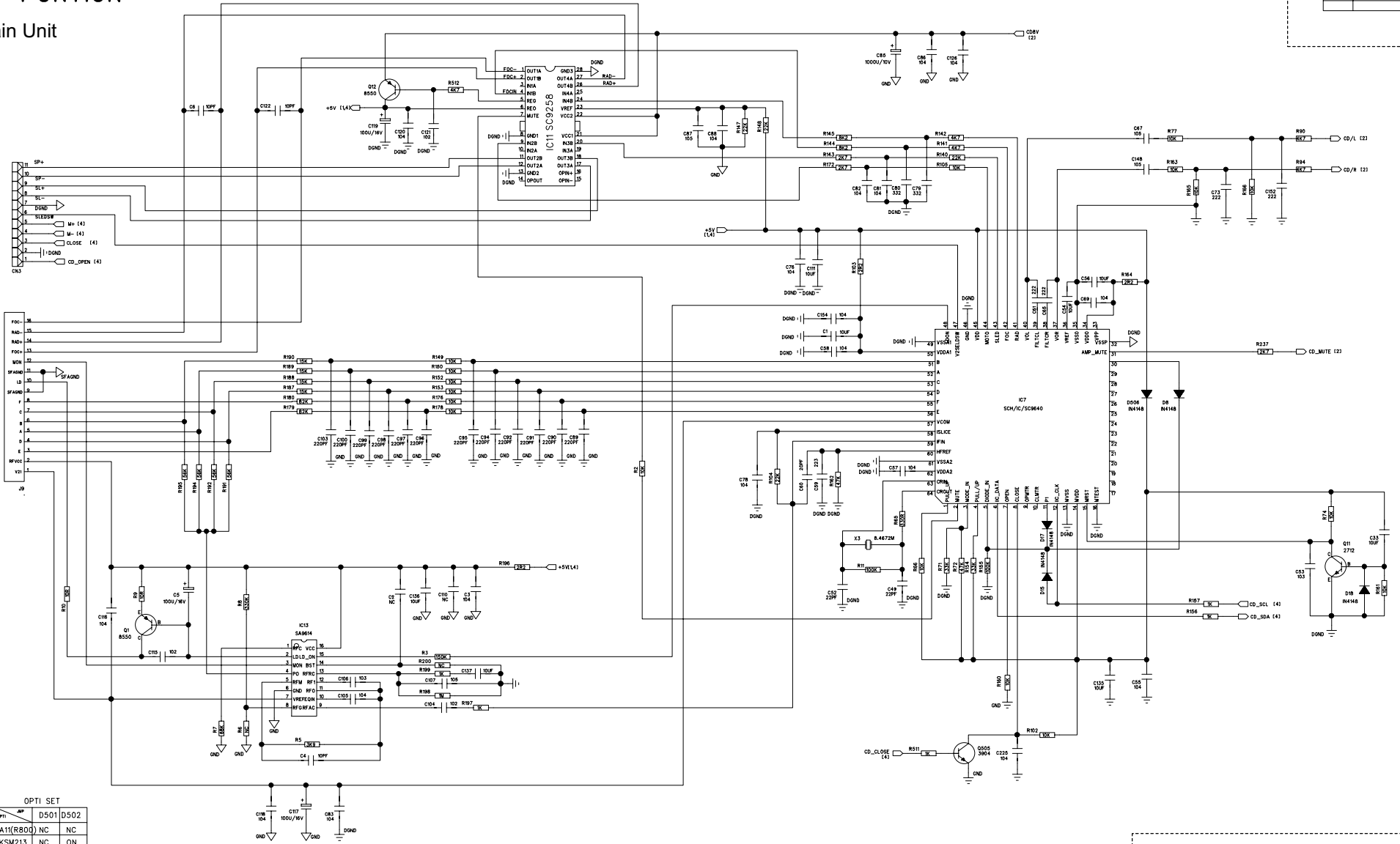


CD PORTION

Main Unit

REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE



OPT1 SET

opt	AMP	D501	D502
D11(R800)	NC	NC	
KSM213	NC	ON	
G9350H	ON	NC	
G9350	ON	ON	

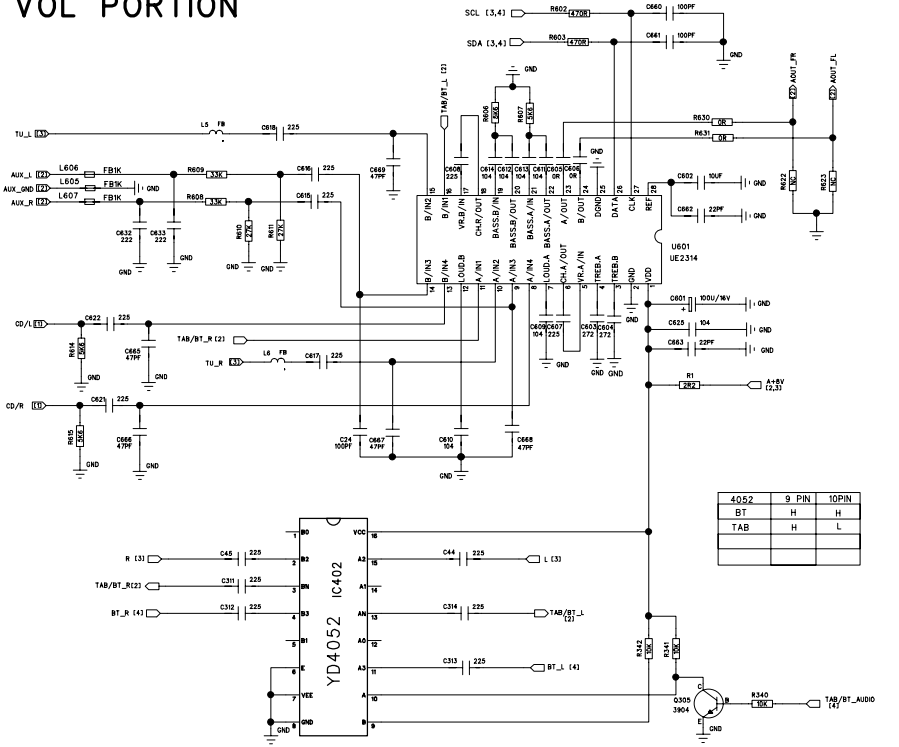
ALCO CONFIDENTIAL

COMPANY LOGO	PREPARED BY:	DATE:	MODEL NO.:	FILE:	REV.:
			ACS310E		1
	CHECKED BY:		CUSTOMER MODEL NO.:	DRAWING NO.:	DATE:
	APPROVED BY:		DATE:		
	RELEASE DATE:		FILE: 1/4H	PRODUCT NAME:	

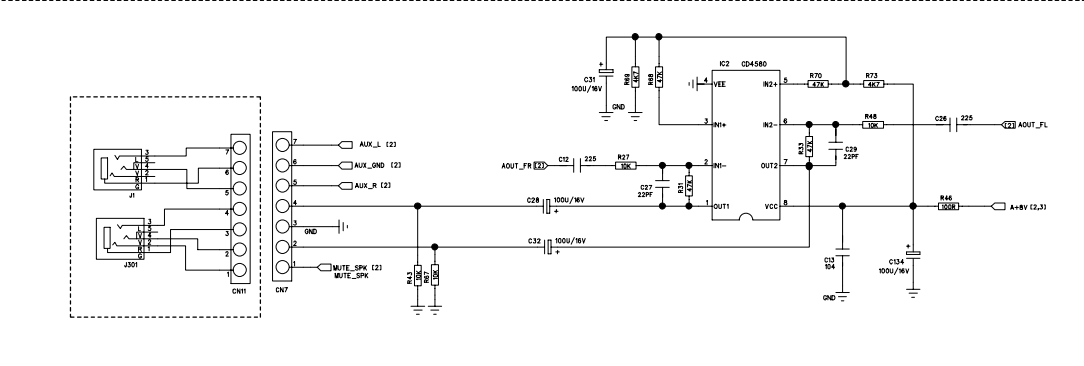
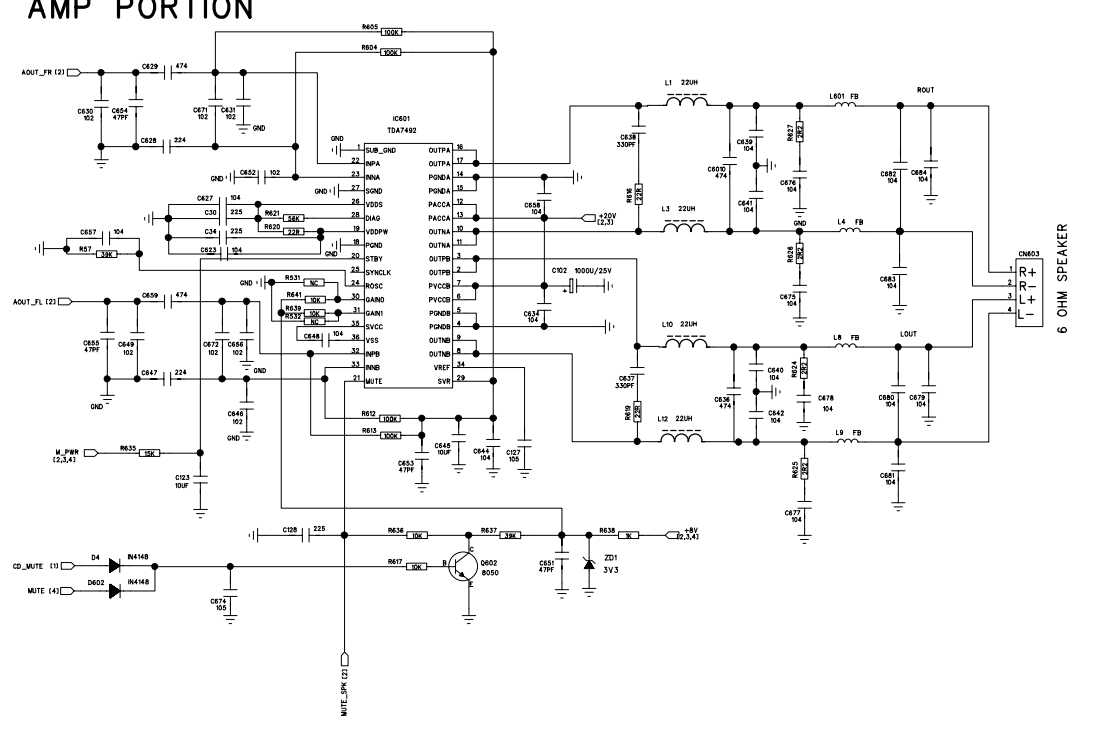
Main Unit

REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE

VOL PORTION



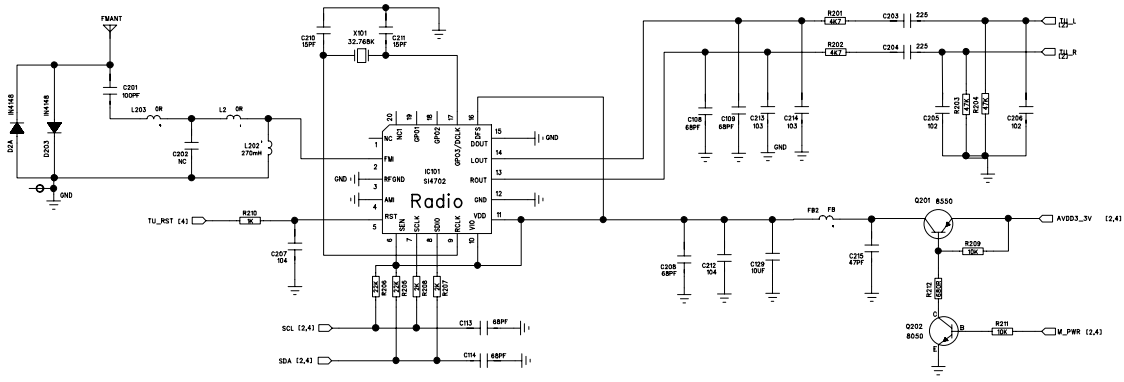
AMP PORTION



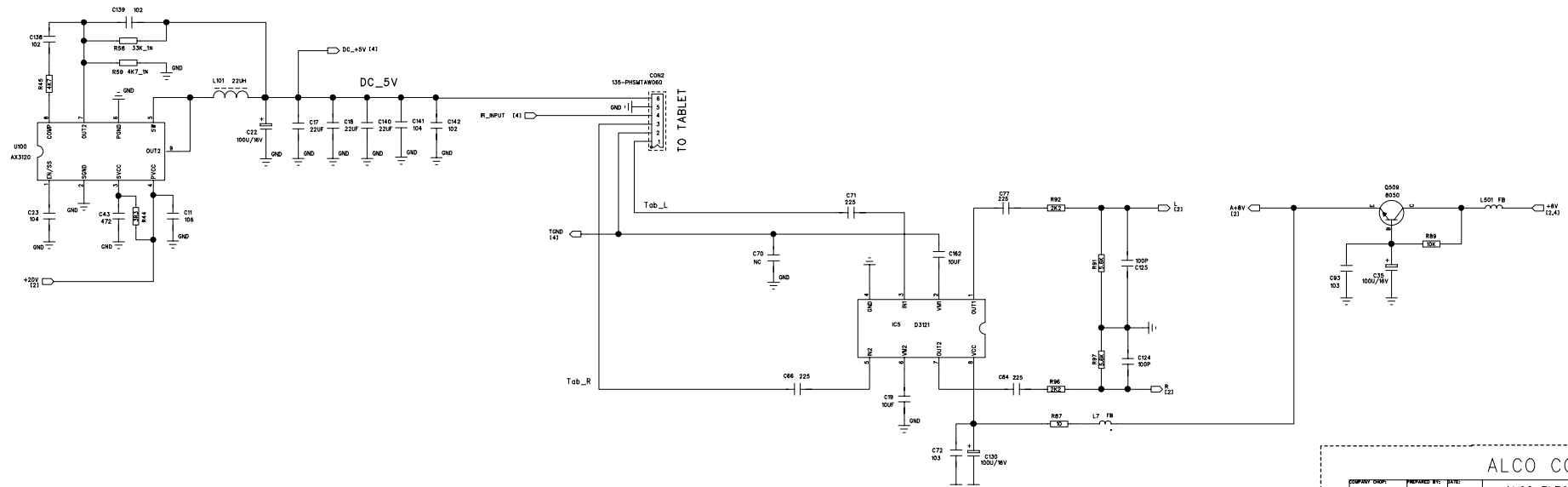
Main Unit

REVISION RECORD			
LTR	ECC NO:	APPROVED:	DATE:

TUNER PORTION



DC TO DC PORTION



ALCO CONFIDENTIAL

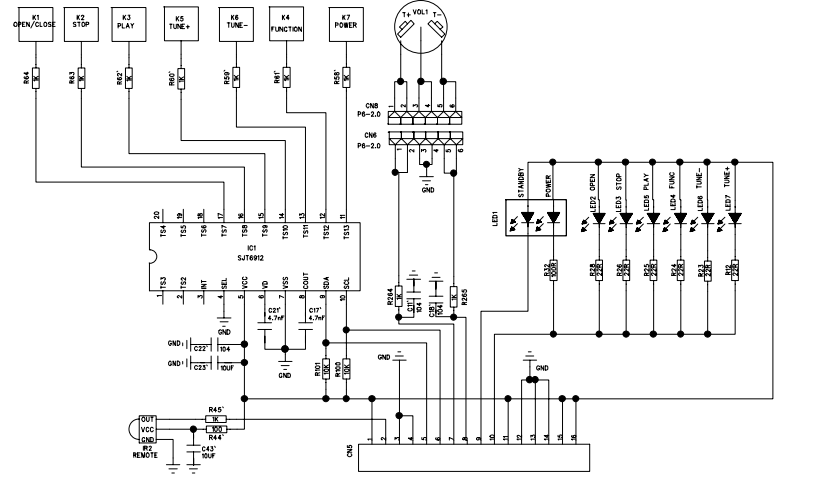
COMPANY CODE:	DESIGNED BY:	DATE:	MODEL NO.:	FILE:	REV. 1
			ACS310IE		REV. 1
					REV. 2
					REV. 3
					REV. 4
					REV. 5

Main Unit Bluetooth 2402MHz - 2480MHz

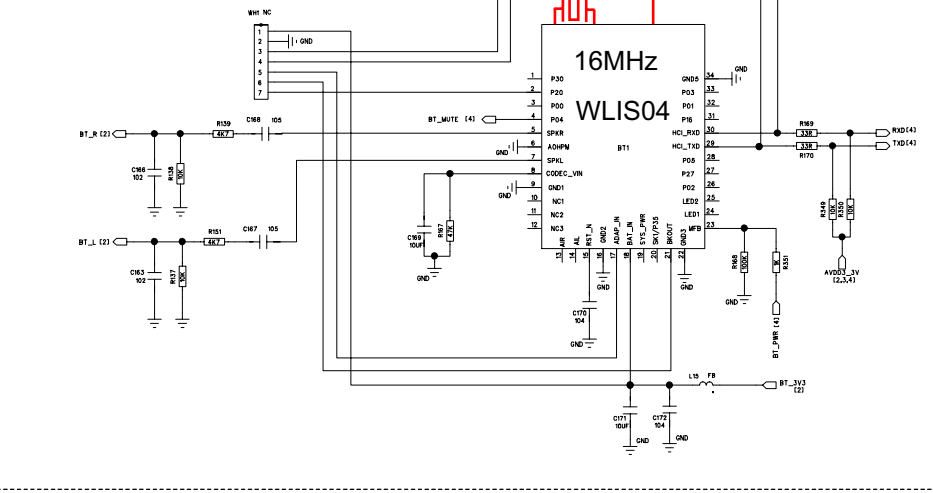
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

Main Unit

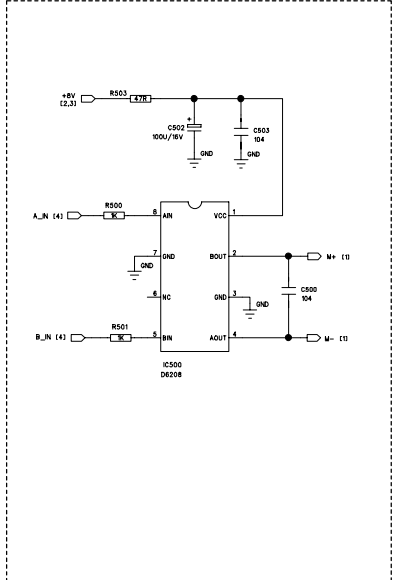
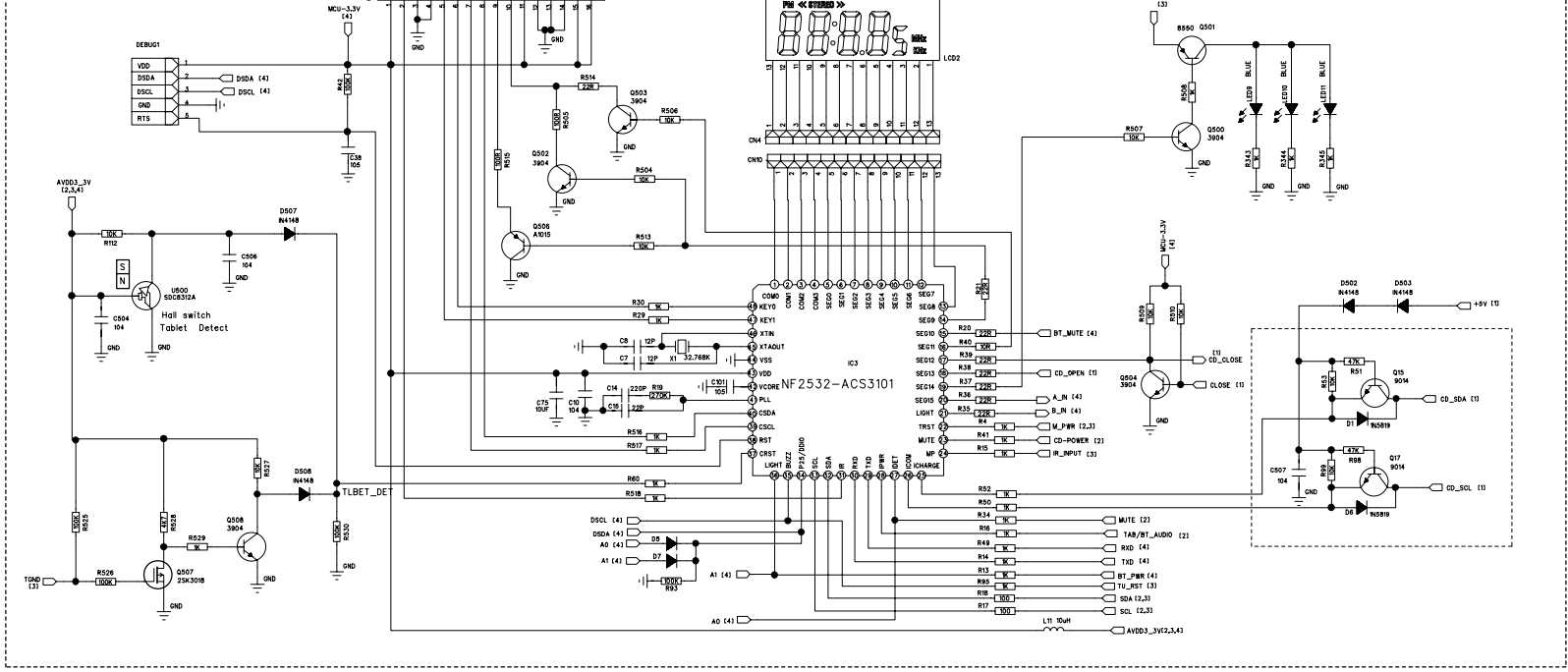
TOUCH KEY PORTION



BT PORTION



MCU PORTION



ALCO CONFIDENTIAL

DESIGNED BY:	REVIEWED BY:	DATE:	MODEL NO.:	REV.:
			ACS310E	

GPIO vs. DEFAULT APP FUNCTION

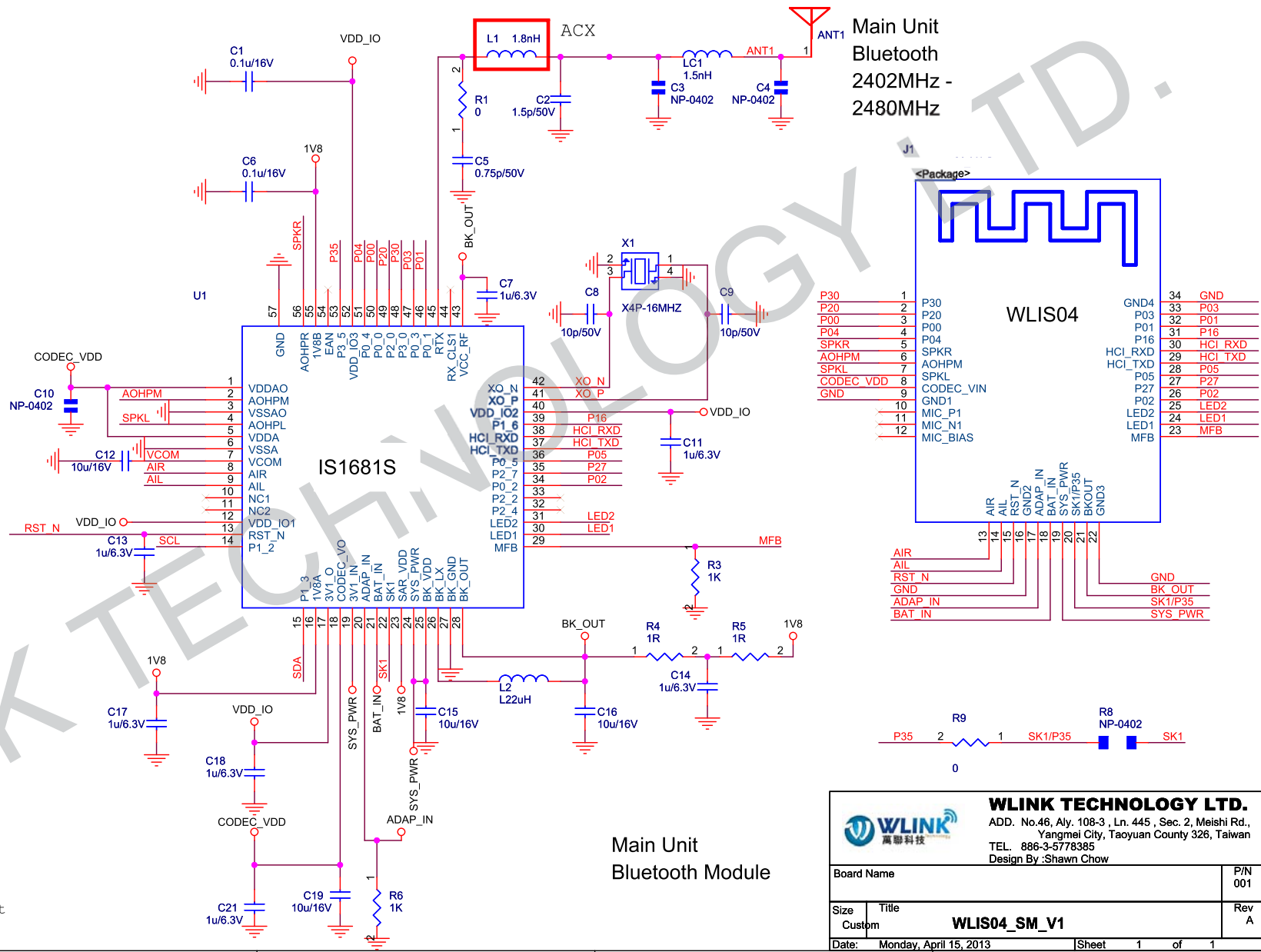
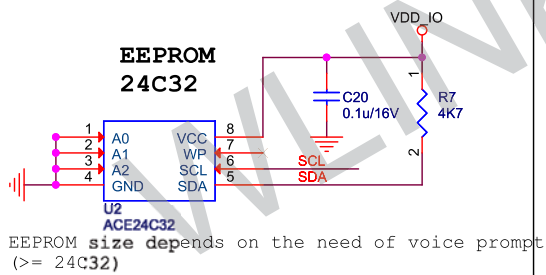
GPIO	FUNCTION
P1_2	EEPROM SCL
P1_3	EEPROM SDA
P0_1	VOL+
P1_6	VOL-
P2_7	FWD
P0_5	REV
P0_2	PLAY/PAUSE
P3_5	BUZZER DRIVER (*OPTIONAL)

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

EEPROM 24C32



Pin	Function	Pin	Function
P30	1	P30	1
P20	2	P20	2
P00	3	P00	3
P04	4	P04	4
SPKR	5	SPKR	5
AOHPM	6	AOHPM	6
SPKL	7	SPKL	7
CODEC_VDD	8	CODEC_VDD	8
GND	9	GND1	9
	10	MIC_P1	10
	11	MIC_N1	11
	12	MIC_BIAS	12
	13	AIR	13
	14	AIL	14
	15	RST_N	15
	16	GND2	16
	17	ADAP_IN	17
	18	BAT_IN	18
	19	SYS_PWR	19
	20	SK1/P35	20
	21	BKOUT	21
	22	GND3	22
	23	MFB	23
	24	LED1	24
	25	LED2	25
	26	P02	26
	27	P27	27
	28	P05	28
	29	HCL_TXD	29
	30	HCI_RXD	30
	31	P16	31
	32	P01	32
	33	P03	33
	34	GND4	34

WLINK TECHNOLOGY LTD.
萬聯科技

ADD. No.46, Aly. 108-3, Ln. 445, Sec. 2, Meishi Rd., Yangmei City, Taoyuan County 326, Taiwan
TEL. 886-3-5778385
Design By : Shawn Chow

Board Name		P/N 001
Size Custom	Title WLIS04_SM_V1	Rev A
Date: Monday, April 15, 2013		Sheet 1 of 1

D

C

B

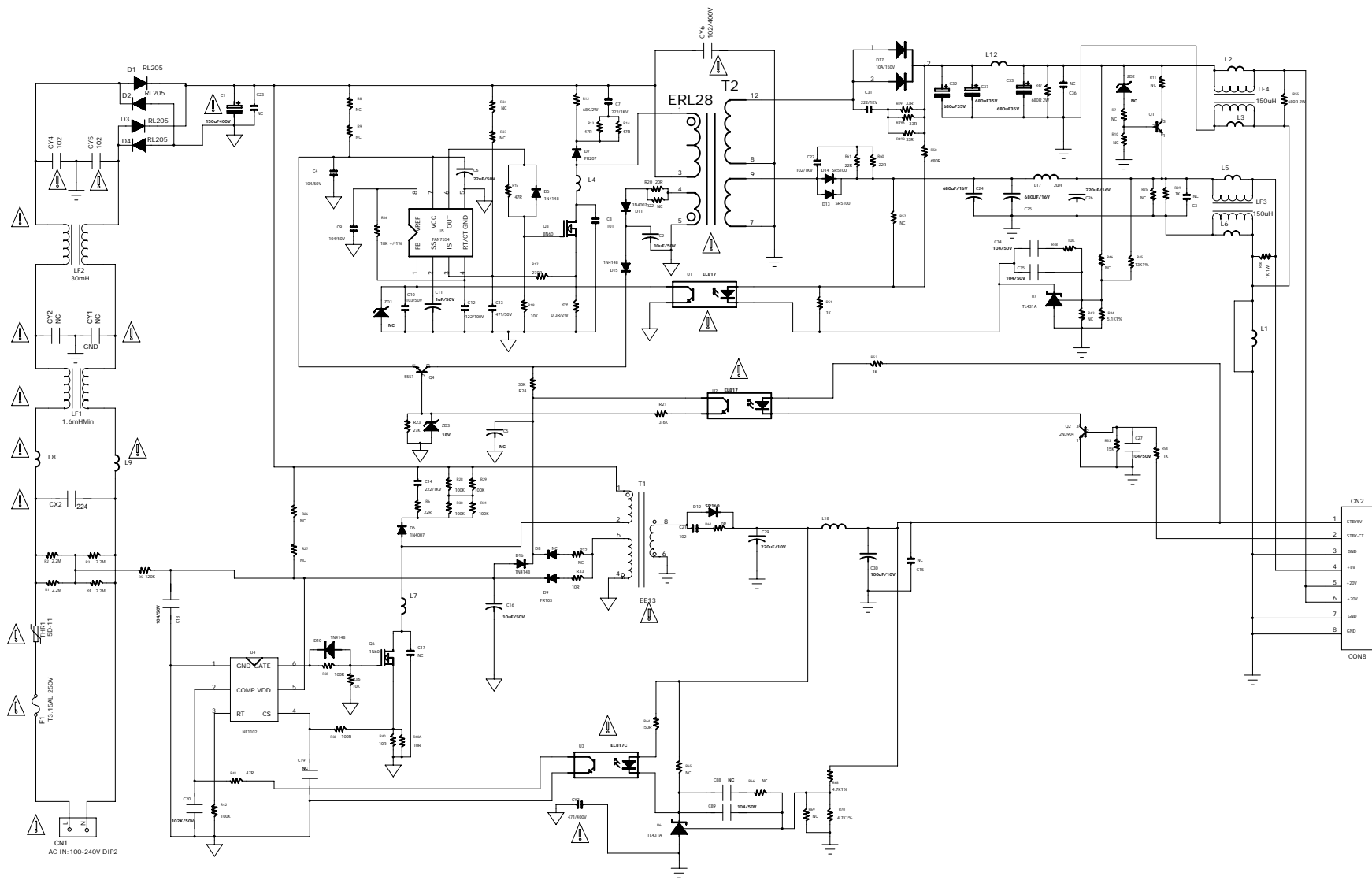
A

D

C

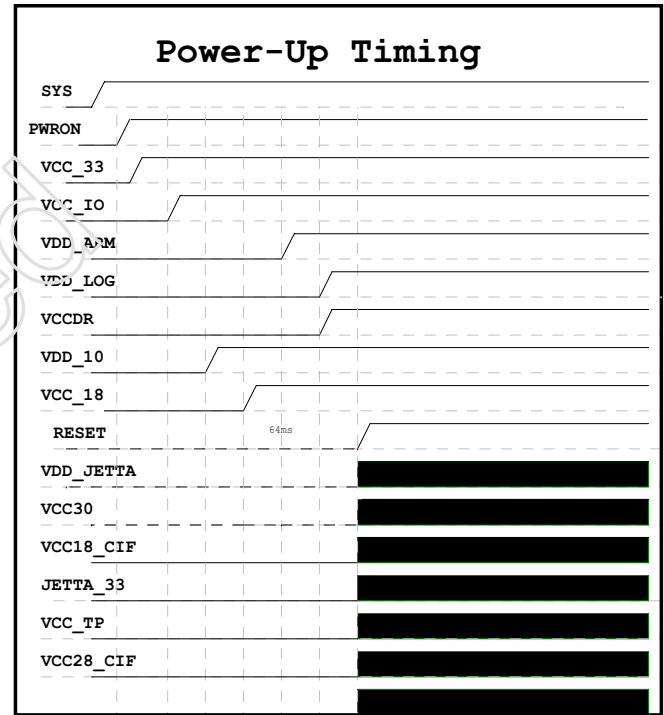
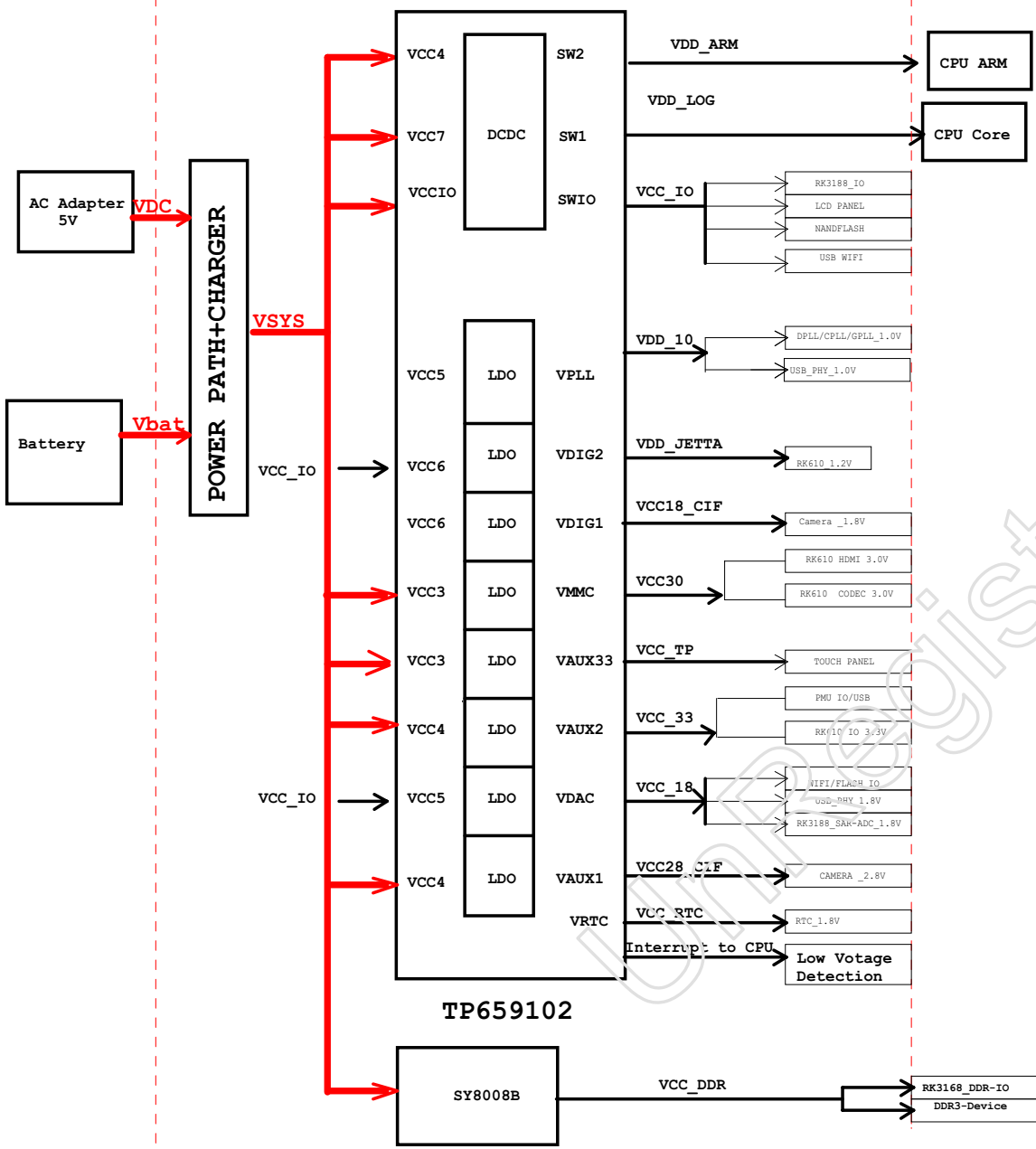
B

A



Main Unit Switching Mode Power Supply

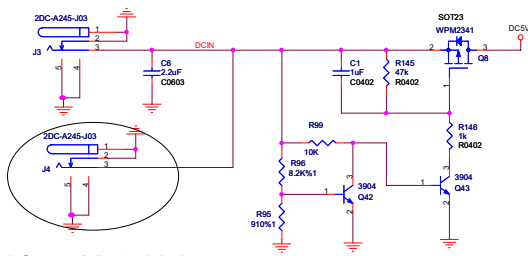
VER	REASON	BY	SIGNATURE	DATE	SHENZHEN ACT INDUSTRIAL CO.,LTD
A/0	第一次下发	欧阳效明	DESIGN: 欧阳效明	2013.7.24	MODEL: ACS3101 V1.0
			APPROVED:		TITLE: ACS3101 V1.0-SCH
					VER: A/1
					PAGE: 1 OF 1



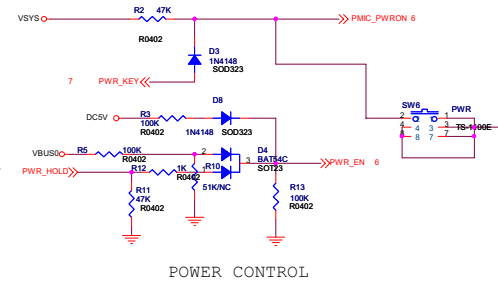
POWER DIAGRAM

Tablet

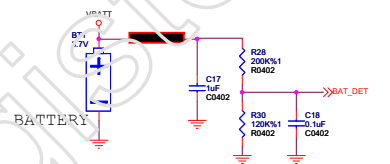
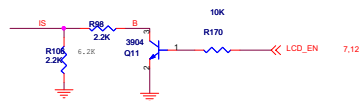
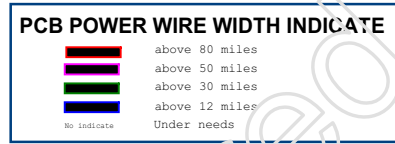
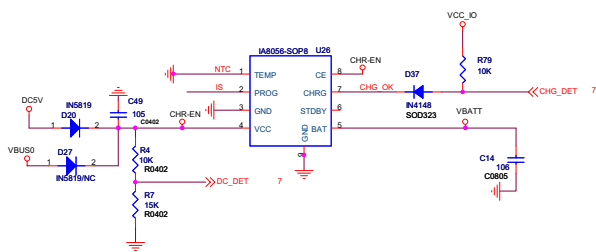
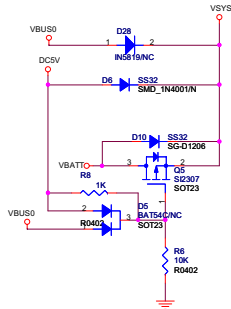
DC IN



+5V from Main Unit



BATTERY CHARGE



福州瑞芯微电子股份有限公司	
Title: DC/Charge	
File: RK3168_REF_TPS659102_TCEL_REV 1.1	
Create Date: Thursday, November 24, 2011	Page Num: 5
Modify Date: Monday, August 19, 2013	Page Total: 15

Tablet

PCB POWER WIRE WIDTH INDICATE

- above 80 miles
- above 50 miles
- above 30 miles
- above 12 miles
- No indicate Under needs

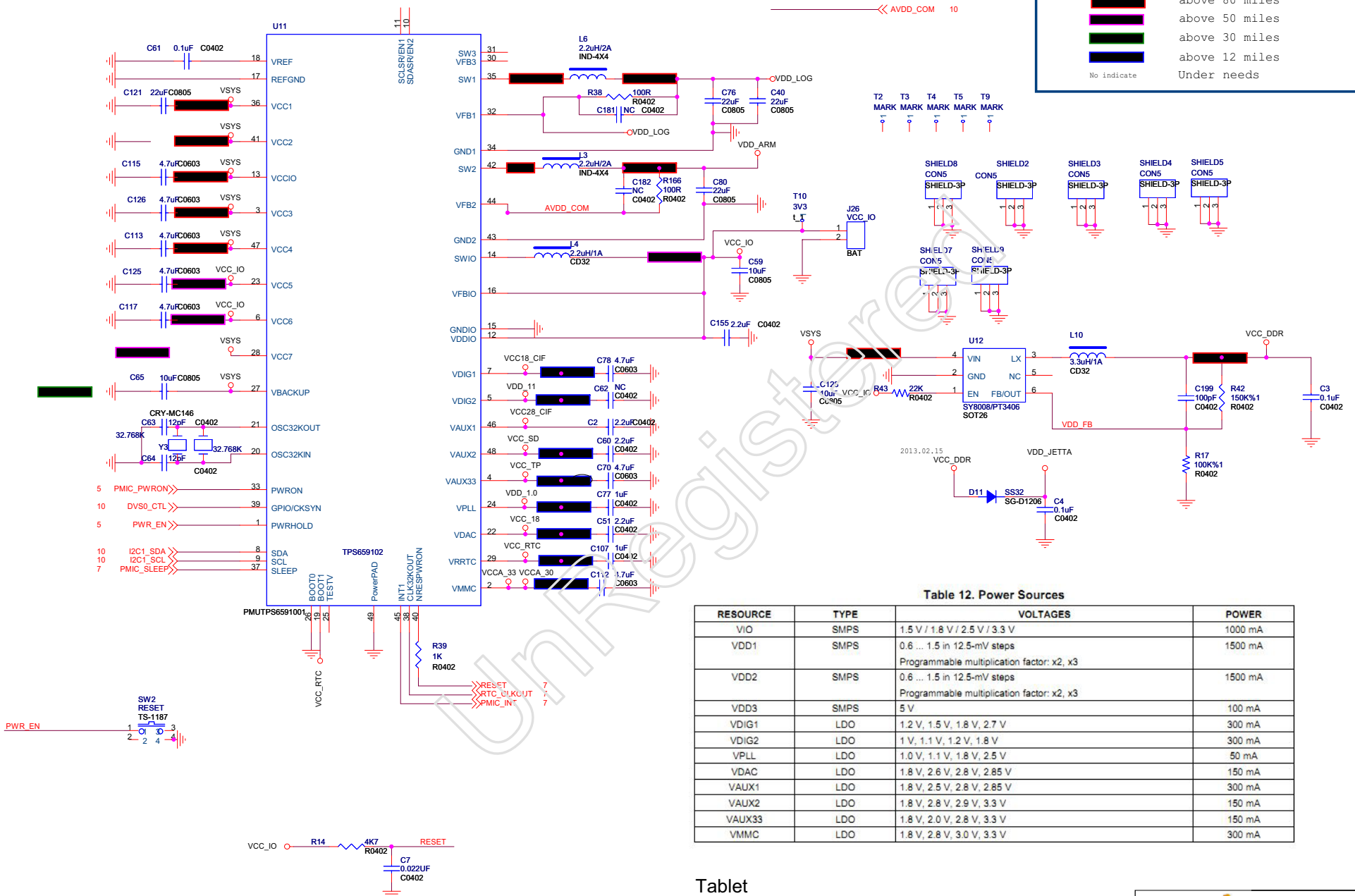


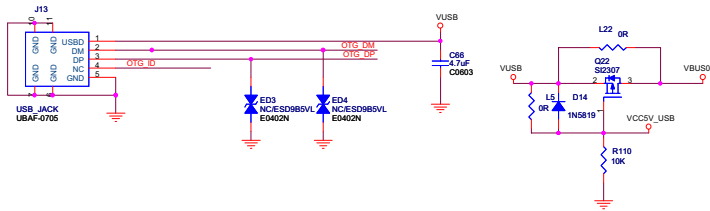
Table 12. Power Sources

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

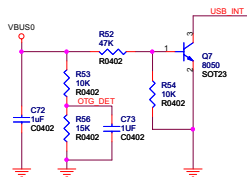
Tablet

Rackchip
福州瑞芯微电子公司

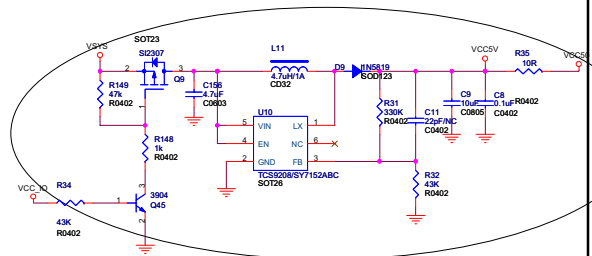
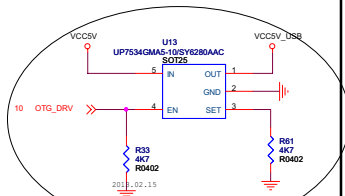
Title: System power
File: RK3168_REF_TPS659102_1CELLREV:1.1
Create Date: Tuesday, November 29, 2011 Page Num: 6
Modify Date: Monday, August 19, 2013 Page Total: 15



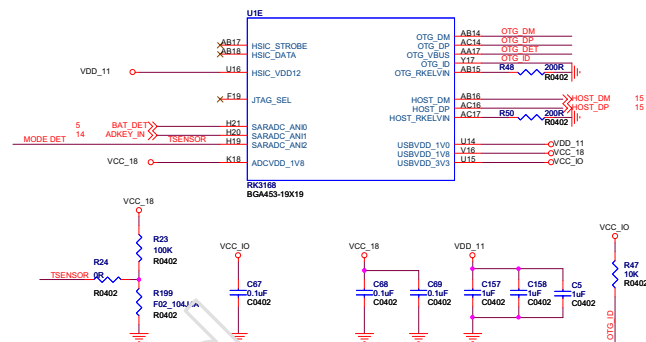
USB OTG CONNECTOR



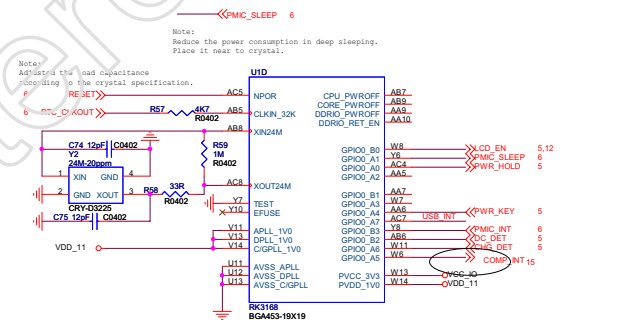
USB_DET



USB HOST POWER Current limit Imin=750mA



RK3168_E

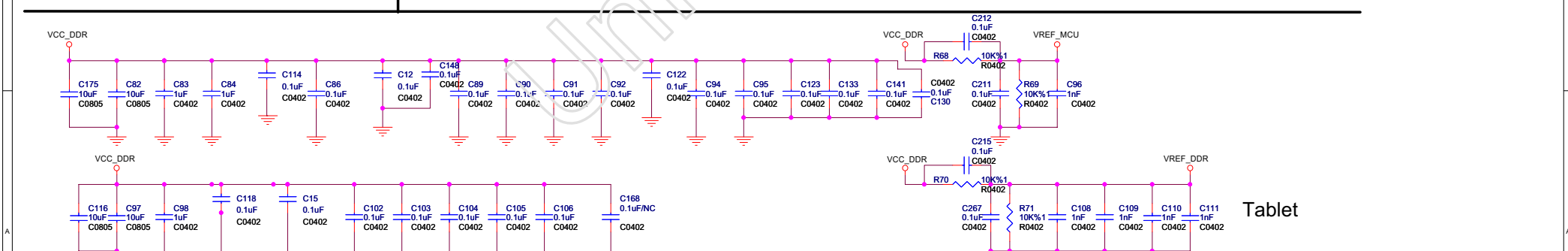
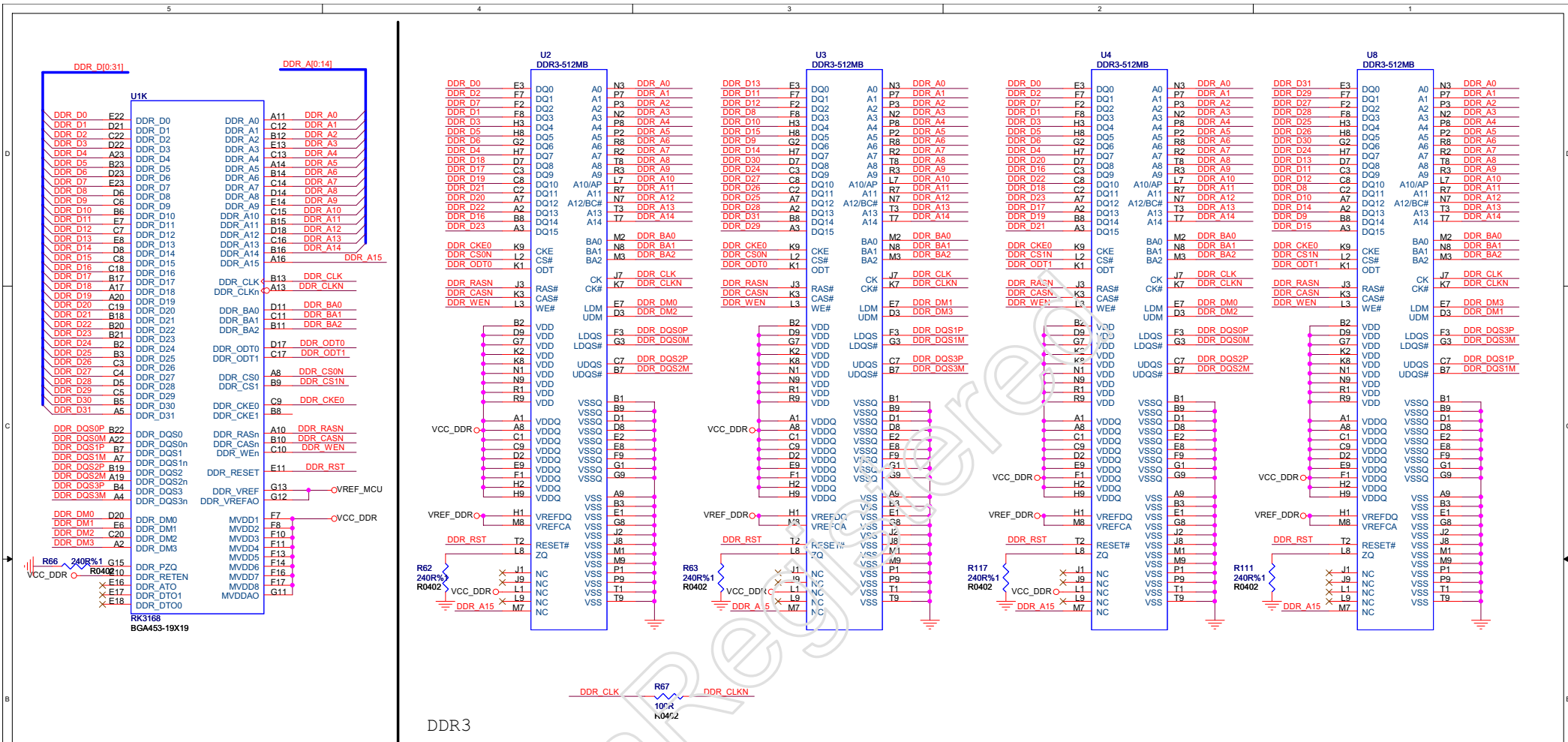


RK3168_D

Note:
If use RK301,PLS no paste these components.

Rockchip 瑞芯微		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



Tablet

Rockchip 瑞芯微电子 福州瑞芯微电子有限公司	
Title: DDR3	
File: RK3168_REF_TPS659102_1CELLREV:1.1	
Create Date: Tuesday, November 09, 2010	Page Num: 8
Modify Date: Monday, August 19, 2013	Page Total: 15

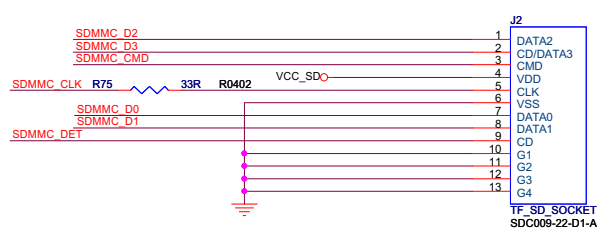
DDR FILTER

U1G

GPIO3_A2/SDMMC0_CLK0	T19	SDMMC CLK
GPIO3_A3/SDMMC0_CMD	T18	SDMMC CMD
GPIO3_A4/SDMMC0_D0	U20	SDMMC D0
GPIO3_A5/SDMMC0_D1	U22	SDMMC D1
GPIO3_A6/SDMMC0_D2	U20	SDMMC D2
GPIO3_A7/SDMMC0_D3	U20	SDMMC D3
GPIO3_B0/SDMMC0_DET	M21	SDMMC DET
GPIO3_B1/SDMMC0_WP	N21	
GPIO3_A1/SDMMC0_PWR	N19	
GPIO3_A0/SDMMC0_RSTN		

RK3168
BGA453-19X19

RK3168_G



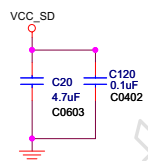
TF_SD_SOCKET
SDC009-22-D1-A

U1I

FLASH_D0/EMMC_D0	AC20	FLASH D0
FLASH_D1/EMMC_D1	AB21	FLASH D1
FLASH_D2/EMMC_D2	AA21	FLASH D2
FLASH_D3/EMMC_D3	Y22	FLASH D3
FLASH_D4/EMMC_D4	AC22	FLASH D4
FLASH_D5/EMMC_D5	Y21	FLASH D5
FLASH_D6/EMMC_D6	AC23	FLASH D6
FLASH_D7/EMMC_D7	AB22	FLASH D7
FLASH_RDY	W17	FLASH RDY
FLASH_WP/EMMC_PWR	Y18	FLASH WP/EMMC PWREN
FLASH_RDN	AB19	FLASH RDN
FLASH_ALE	U19	FLASH ALE
FLASH_CLE	W18	FLASH CLE
FLASH_WRN	AA19	FLASH WRN
FLASH_CS0	Y19	FLASH CS0
FLASH_CS1	Y20	FLASH CS1
FLASH_CS2/EMMC_CMD	AA22	FLASH CS2/EMMC CMD
FLASH_CS3	AA20	FLASH CS3
FALSH_DQS/EMMC_CLK0	AB20	FALSH DQS/EMMC_CLK0
GPIO0_C0/FLASH_D8	W22	
GPIO0_C1/FLASH_D9	W20	
GPIO0_C2/FLASH_D10	W21	
GPIO0_C3/FLASH_D11	Y23	
GPIO0_C4/FLASH_D12	AB23	
GPIO0_C5/FLASH_D13	Y21	
GPIO0_C6/FLASH_D14	W19	
GPIO0_C7/FLASH_D15	W23	

RK3168
BGA453-19X19

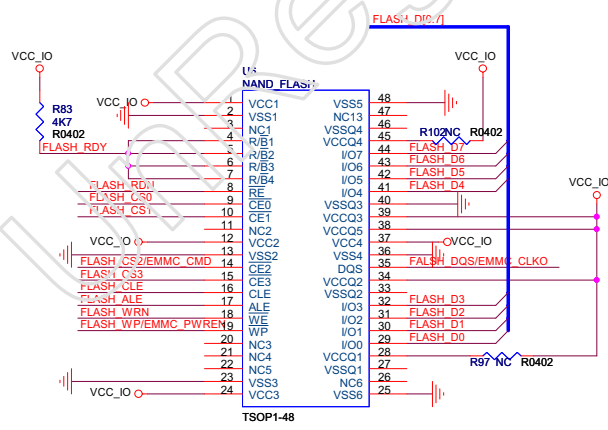
RK3168_I



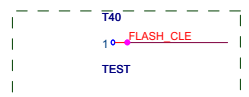
TF CARD

INAND (OPTION3)

LGA NANDFLASH (OPTION2)



Note:
Reserve a PAD.



NAND FLASH (OPTION1)

Tablet

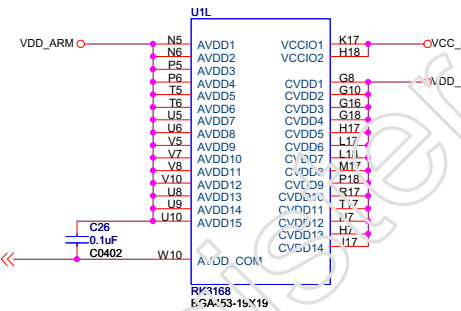
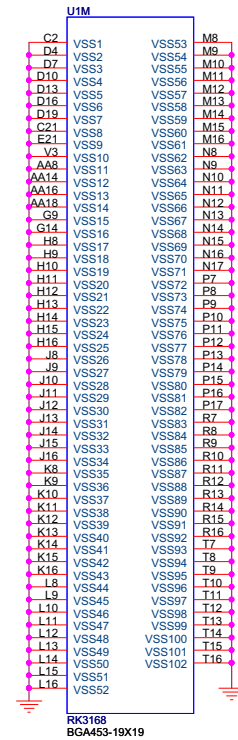
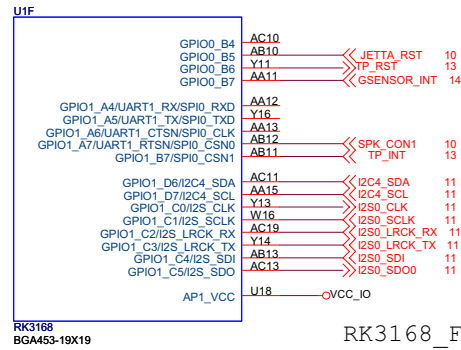
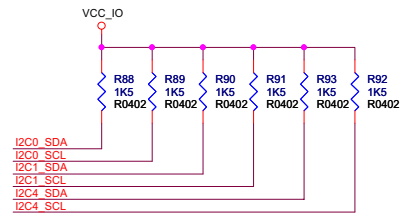
Rackchip 瑞芯微电子 福州瑞芯微电子有限公司

Title: Flash/TF card

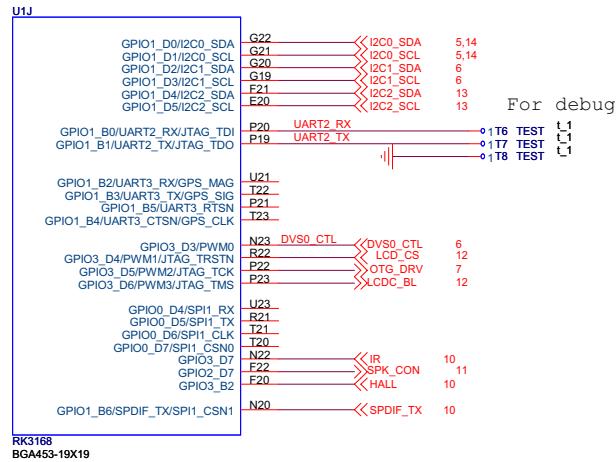
File: RK3168_REF_TPS659102_1CEL | REV: 1.1

Create Date: Thursday, October 14, 2010 Page Num: 9

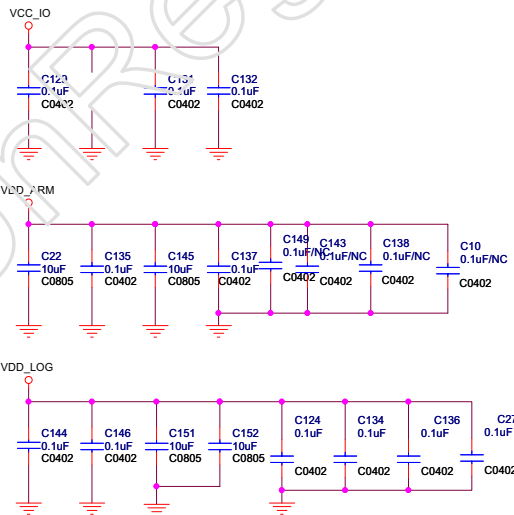
Modify Date: Wednesday, August 07, 2013 Page Total: 15



RK3168_L Note: Place these filter capacitors under CPU.



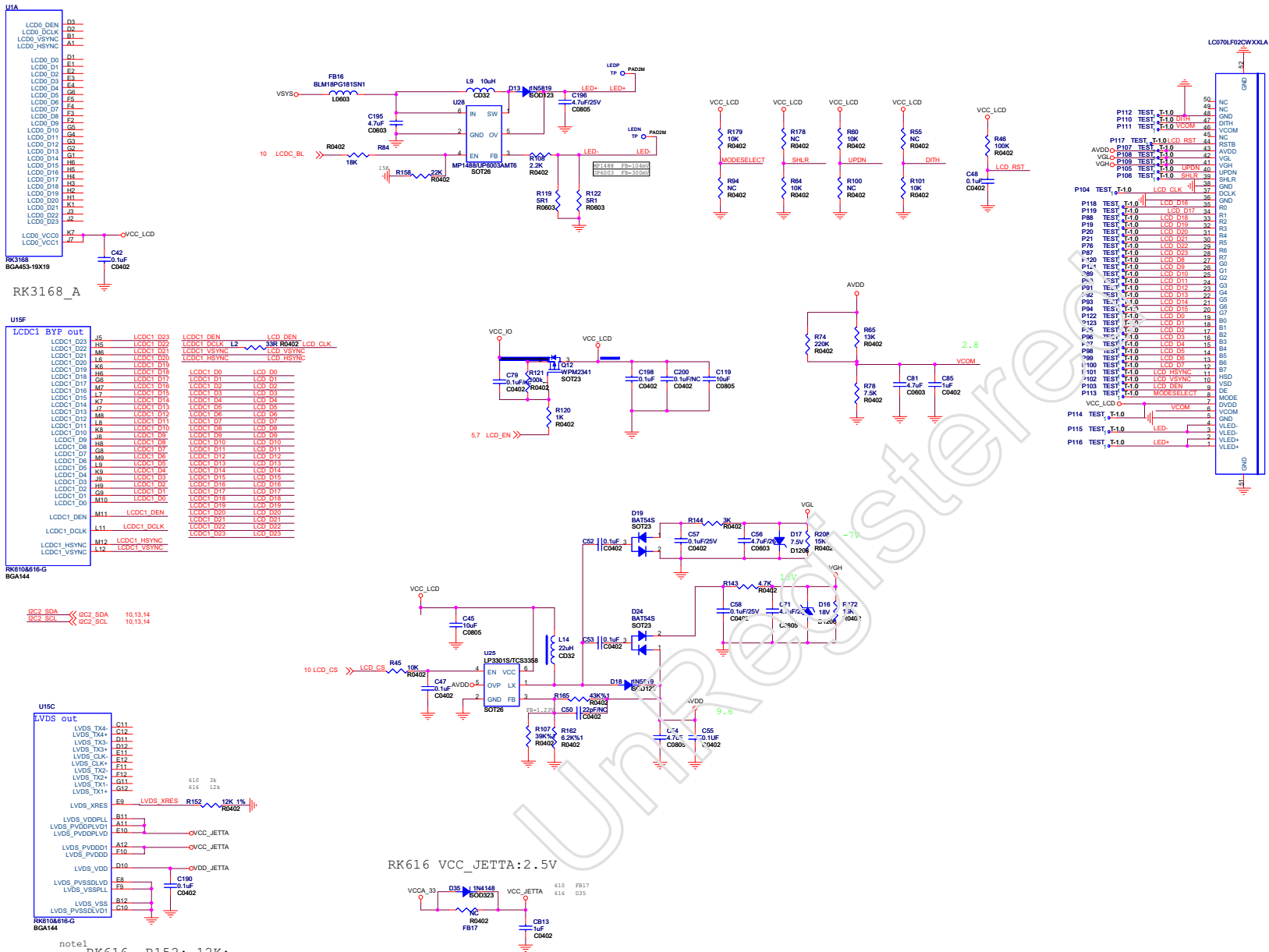
RK3168_J



RK3168 CORE POWER FILTER

Tablet

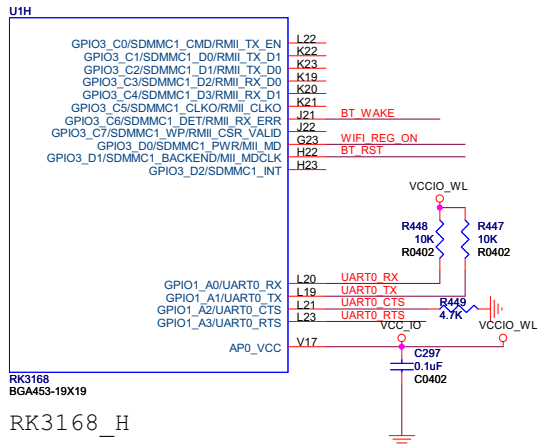
Title: GPIO	
File: RK3168_REF_TPS659102_1CEU LREV: 1.1	
Create Date: Monday, October 18, 2010	Page Num: 10
Modify Date: Monday, August 19, 2013	Page Total: 15



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

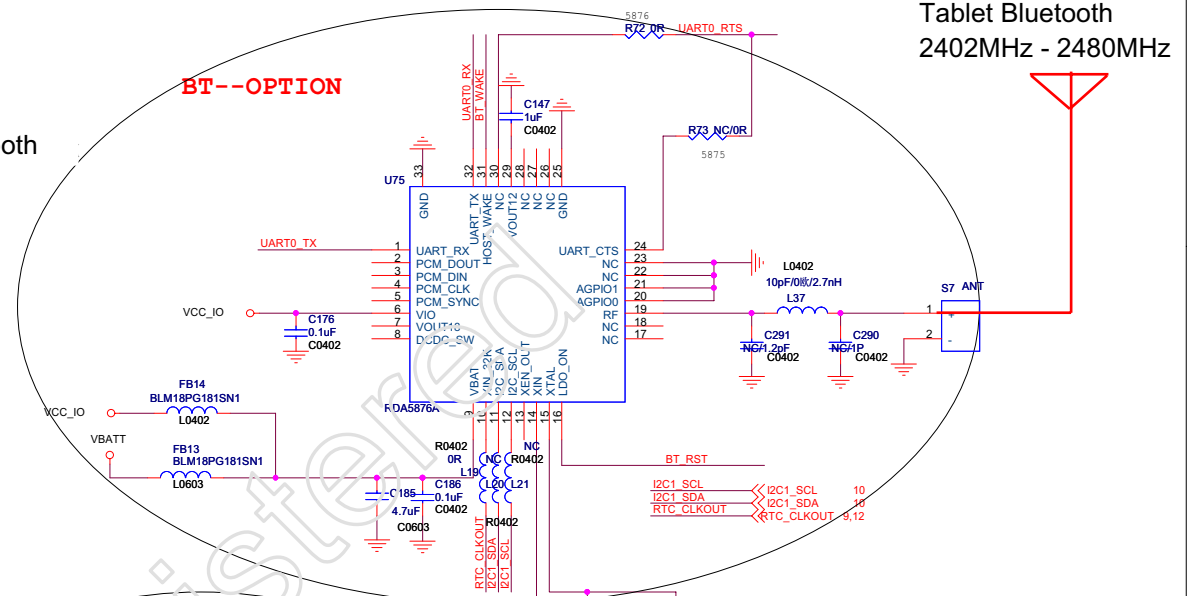
Tablet



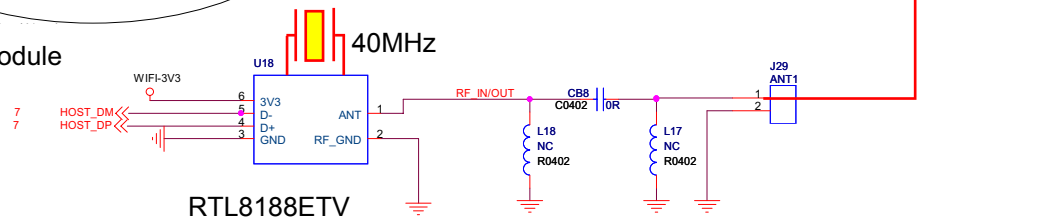
Note :PLS design the RF under RK RF LAYOUT guide;
For more suggestions, please refer to the SPEC
of the wireless IC

Tablet Bluetooth

BT--OPTION



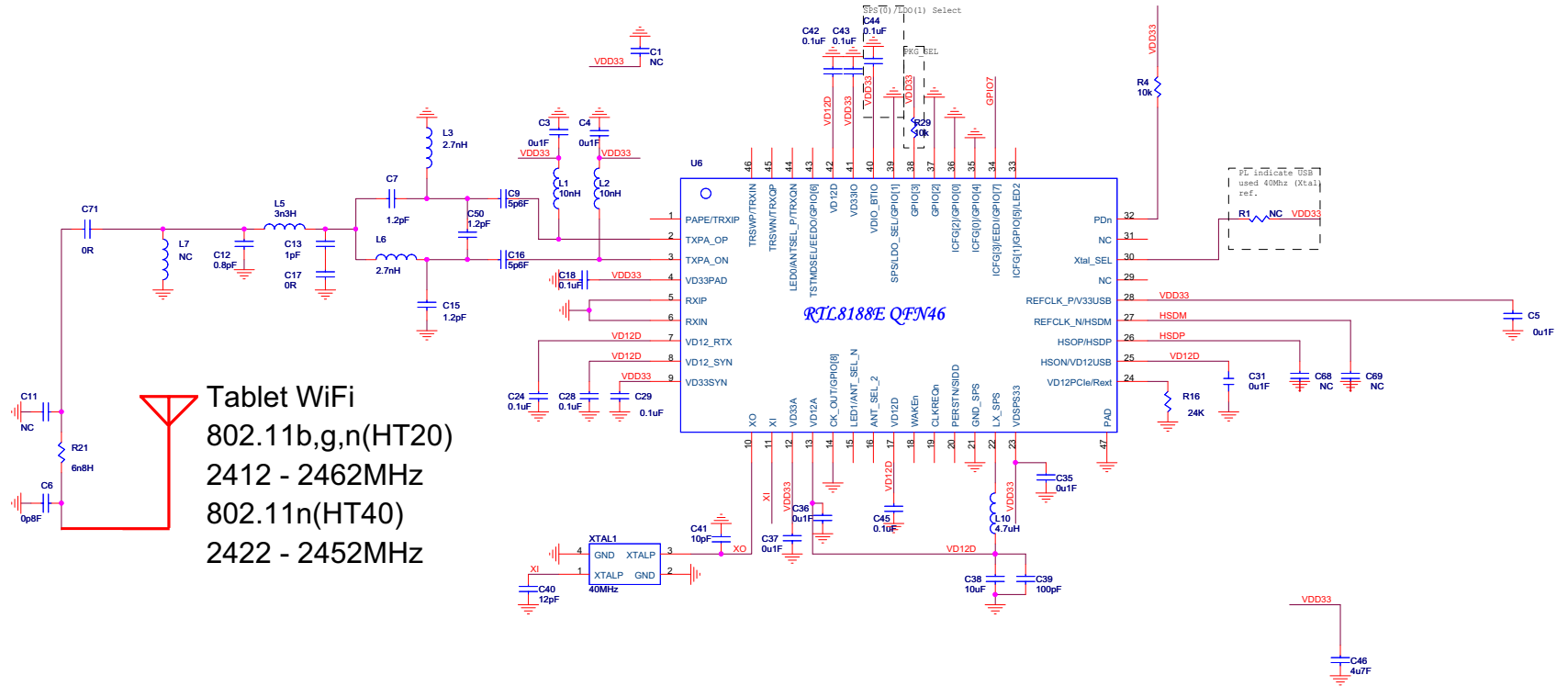
LDO for Tablet WiFi module



RTL8188ETV

Tablet

UD88E00-1V0	initial	20120117
	delete R3,R10,R11,R32,R40	20120210
	add C70,C71	
UD88E00-1V1	update ANT matching value , L5, C1	20120326



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

Tablet WIFI Module RTL8188ETV

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