

I2C MAP

Port	Pin name	Domain	Bus name	Pull-up voltage	Slave Device	Slave Addr (MS 7Bits)	Note	Slave Bus Capability
I2C0	GPIO1_D1/UART1_TX/I2C0_SCL/SPI2_CSNO GPIO1_D0/UART1_RX/I2C0_SDA/SPI2_CLK	VCCI01	I2C0_SCL I2C0_SDA	VCC_IO	Reserve			
I2C1	GPIO0_B4/I2C1_SCL GPIO0_B3/I2C1_SDA	VCCI00	I2C1_SCL I2C1_SDA	VCC_IO	SN3236	0x3C/0x3F	MIC Array Connector-Analog(Optional)	
					VL6180	0X29(7bit)	ST Proximity sensing module	
					HYM8563	Read A3H Write A2H	RTC	
					CW2015/CW2013	Read 0XC5 Write 0XC4	Fuel Gauge(Optional)	
I2C2	GPIO2_A3/UART0_RTSN/SPI0_CSNO/I2C2_SCL GPIO2_A2/UART0_CTSN/SPI0_CLK/I2C2_SDA	VCCI02	I2C2_SCL I2C2_SDA	API02_VDD	MPU6500	AD0=0 0x68 AD0=1 0x69		



Fuzhou Rockchip Electronics

Project:

RK3308B_SweeperRobot

File:

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V1.0

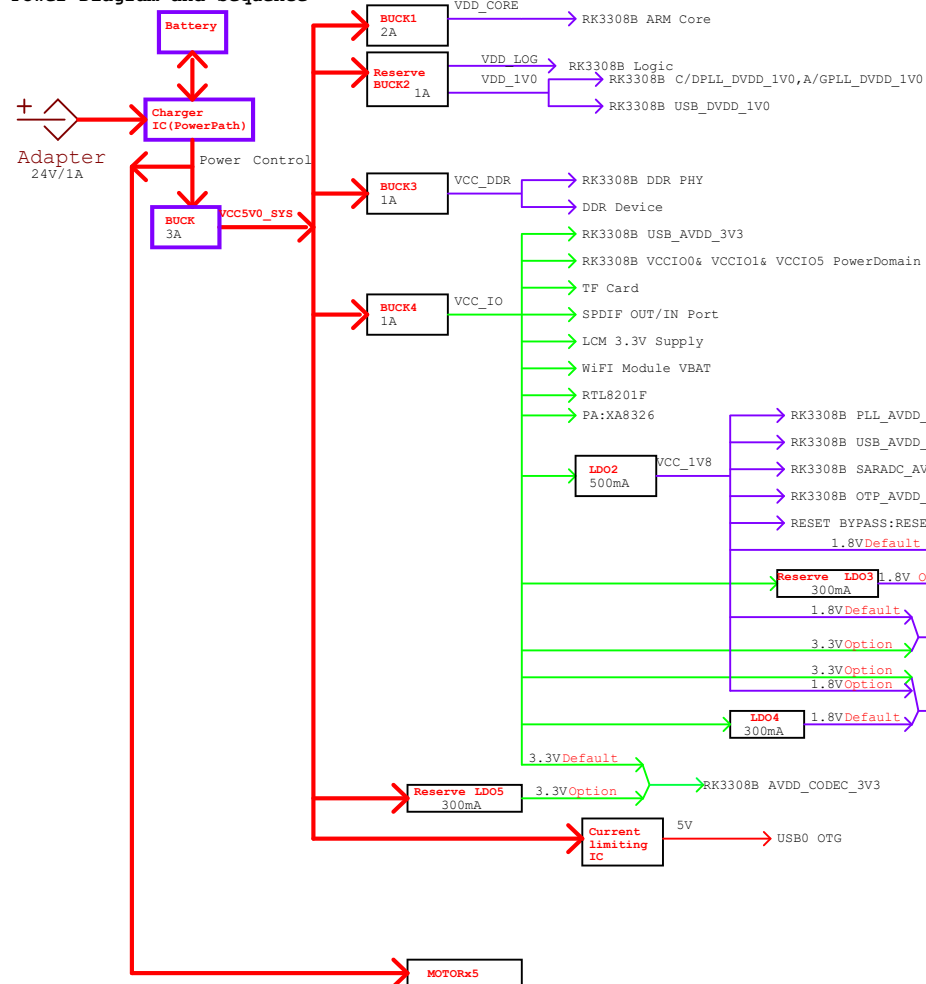
Designed by:

lis

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Power Diagram and Sequence



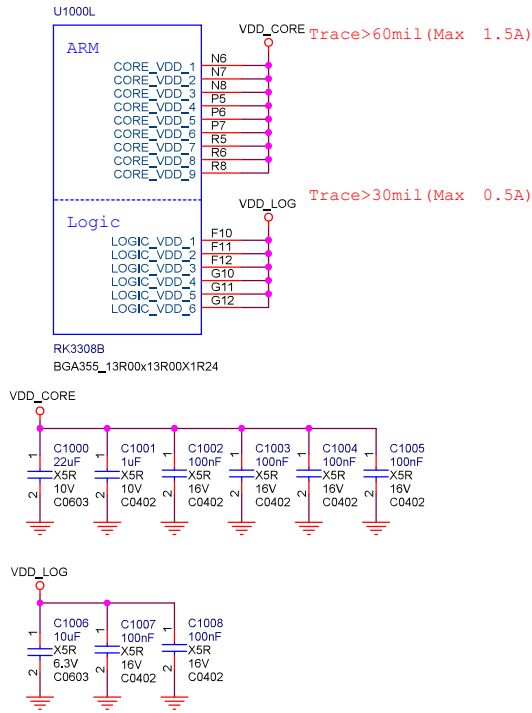
Power up Timing

[illegible]

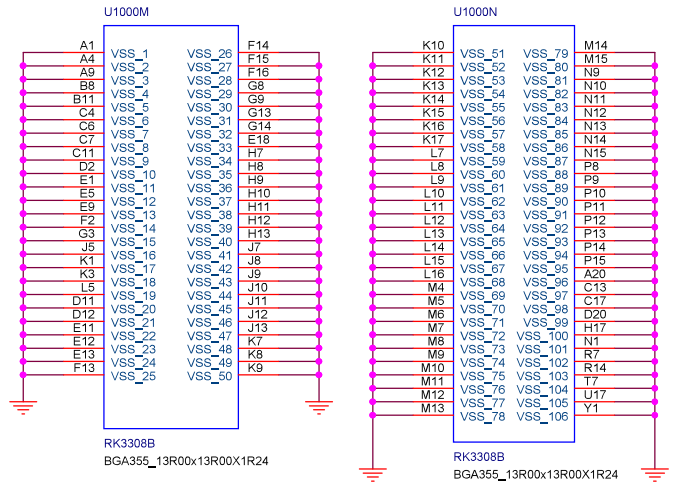
IO PowerDomain	Voltage=0.3V	Voltage=1.8V
VCCI0	3.3V(Default) PMUIO	Support
VCCI1	3.3V(Default) LCDC	Support
VCCI2	Support	1.8V(Default) I280
VCCI3	Support	1.8V(Default) eMMC
VCCI4	Support	1.8V(Default) WiFi(SDIO)
VCCI5	3.3V(Default) SDMMC	Support

RK3308B Part-L

RK3308B Part-N RK3308B Part-M



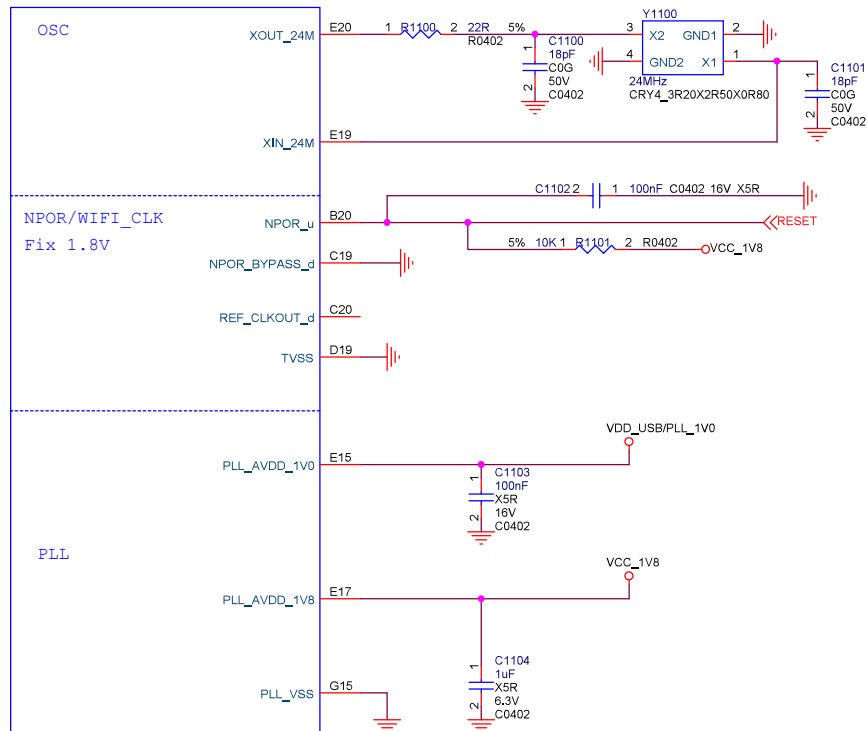
Note: All the Power filter capacitors should be placed close to the power pins of RK3308B



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RK3308B Part-A

U1000A

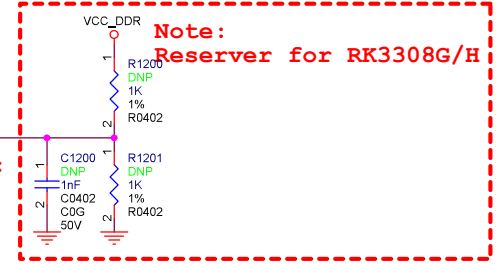
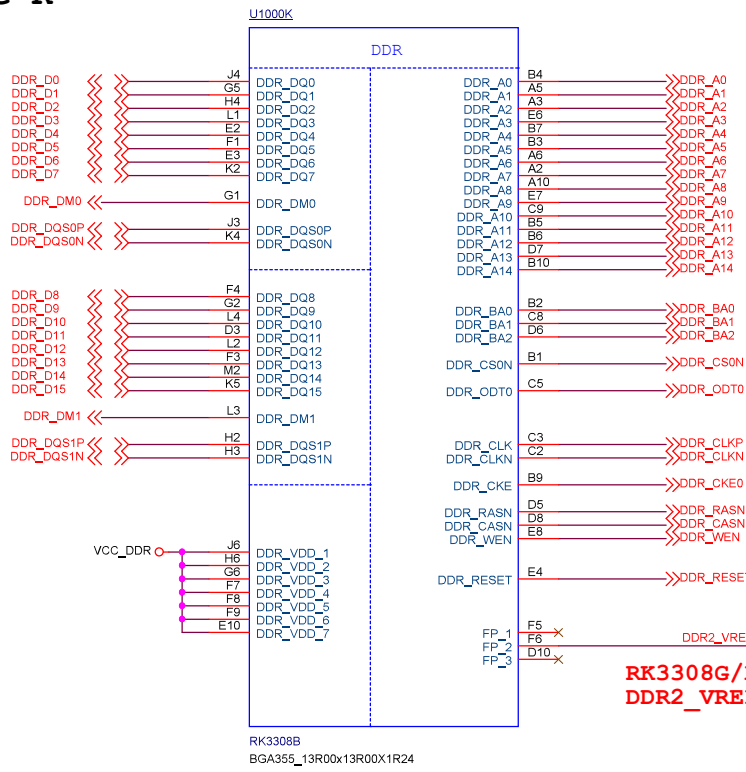


If share clk source with WiFi,
Accuracy <= 10ppm.
Otherwise <=20ppm for
Independent crystal design

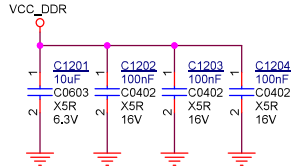
RK3308B
BGA355_13R00x13R00X1R24

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RK3308B Part-K



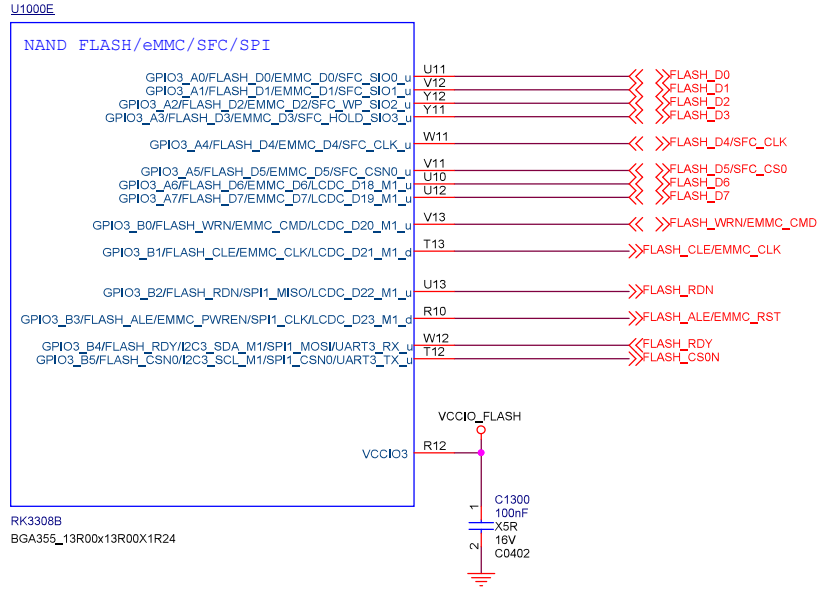
Power Filter



Note: All the Power filter capacitors should be placed close to the power pins of RK3308B

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RK3308B Part-E



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RK3308B Part-I

U1000

USB2 . 0

USB0_DM

USB0_DP

USB_VBUS

USB_ID

USB1_DM

USB1_DP

USB_EXTR

USB_AVDD_3V3_1

USB_AVDD_3V3_2

USB_AVDD_1V8

USB_VDD_1V0

A13

B13

C14

C12

A12

B12

C15

D13

E14

D16

D15

USB_OTG_DM

USB_OTG_DP

USB_DET

USB_OTG_ID

VCC_IO

C1400

100nF

X5R

16V

C0402

VCC_1V8

C1401

100nF

X5R

16V

C0402

VDD_USB/PLL_1V0

C1402

100nF

X5R

16V

C0402

VDD_1V0

RK3308B

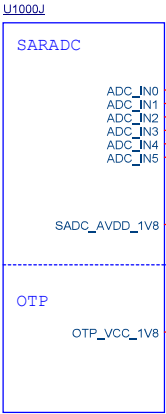
BGA355_13R00x13R00X1R24



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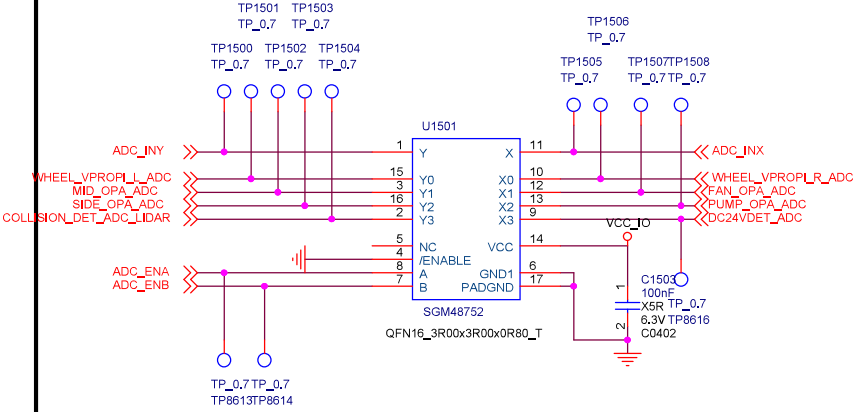
RK3308B Part-J



RK3308B

BGA355_13R00x13R00X1R24

SWITCH



B	A	X	Y
L	L	X=X0	Y=Y0
L	H	X=X1	Y=Y1
H	L	X=X2	Y=Y2
H	H	X=X3	Y=Y3

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Project: RK3308B_SweeperRobot

File: <Page name>

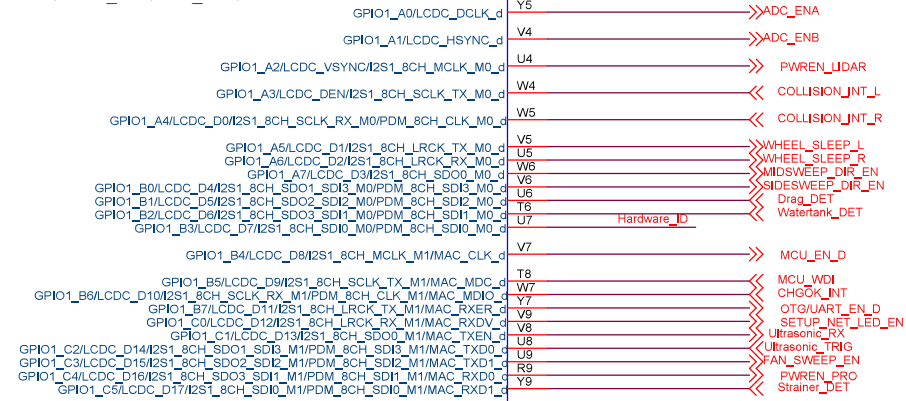
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Designed by: lls **Sheet:** 12 of 35

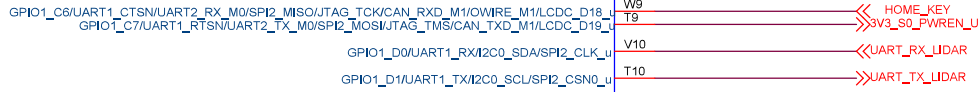
RK3308B Part-C

U1000C

LCDC/I2S1_8CH/PDM_8CH/MAC

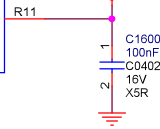


UART/SPI2/JTAG/I2C0



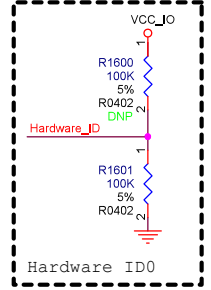
VCCIO1

VCC_IO



RK3308B

BGA355_13R00x13R00X1R24



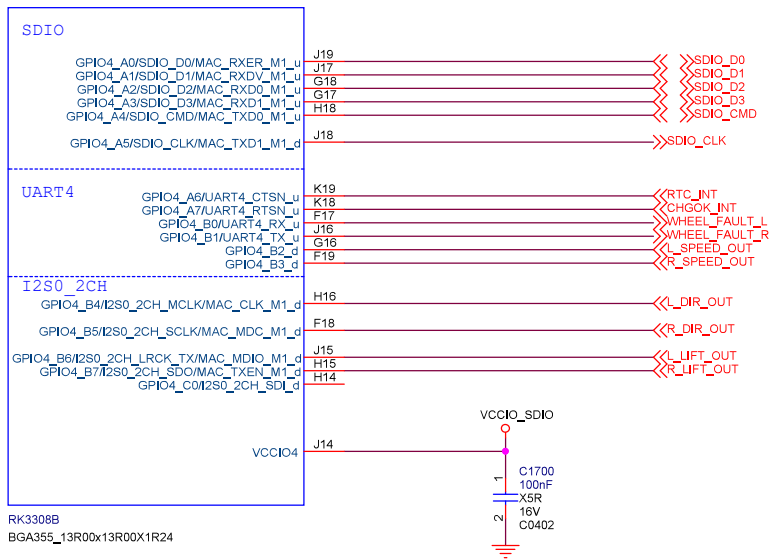
Rockchip
瑞芯微电子

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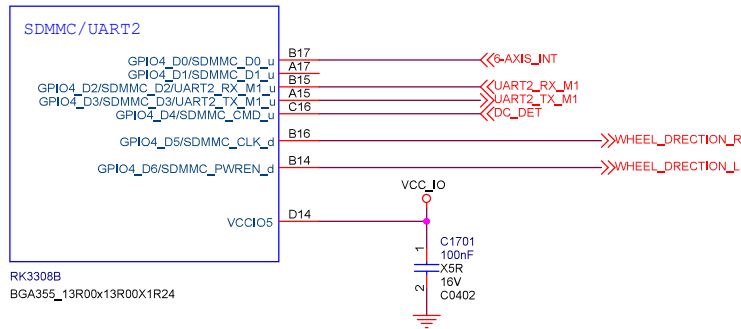
RK3308B Part-F

U1000F



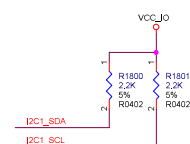
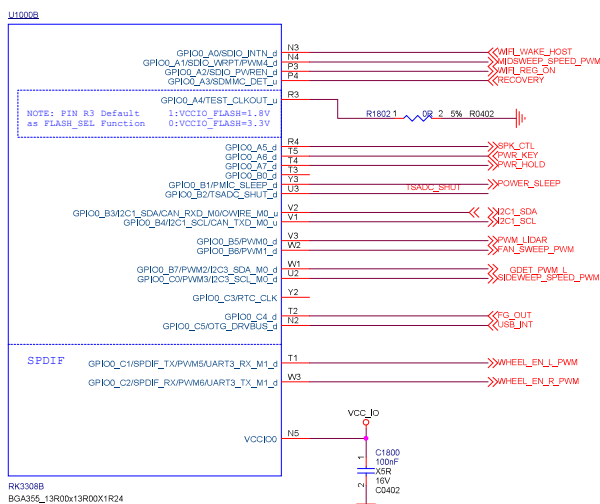
RK3308B Part-G

U1000G

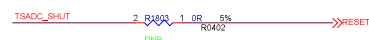


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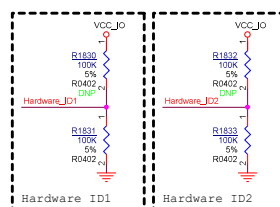
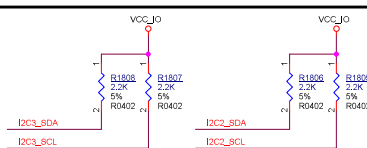
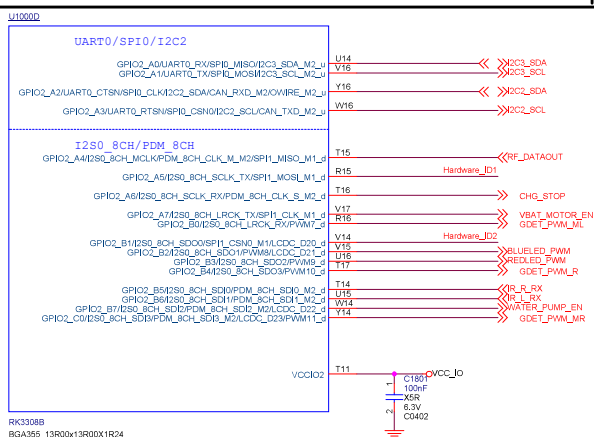
RK3308B Part-B



TSADC
Over temperature protection

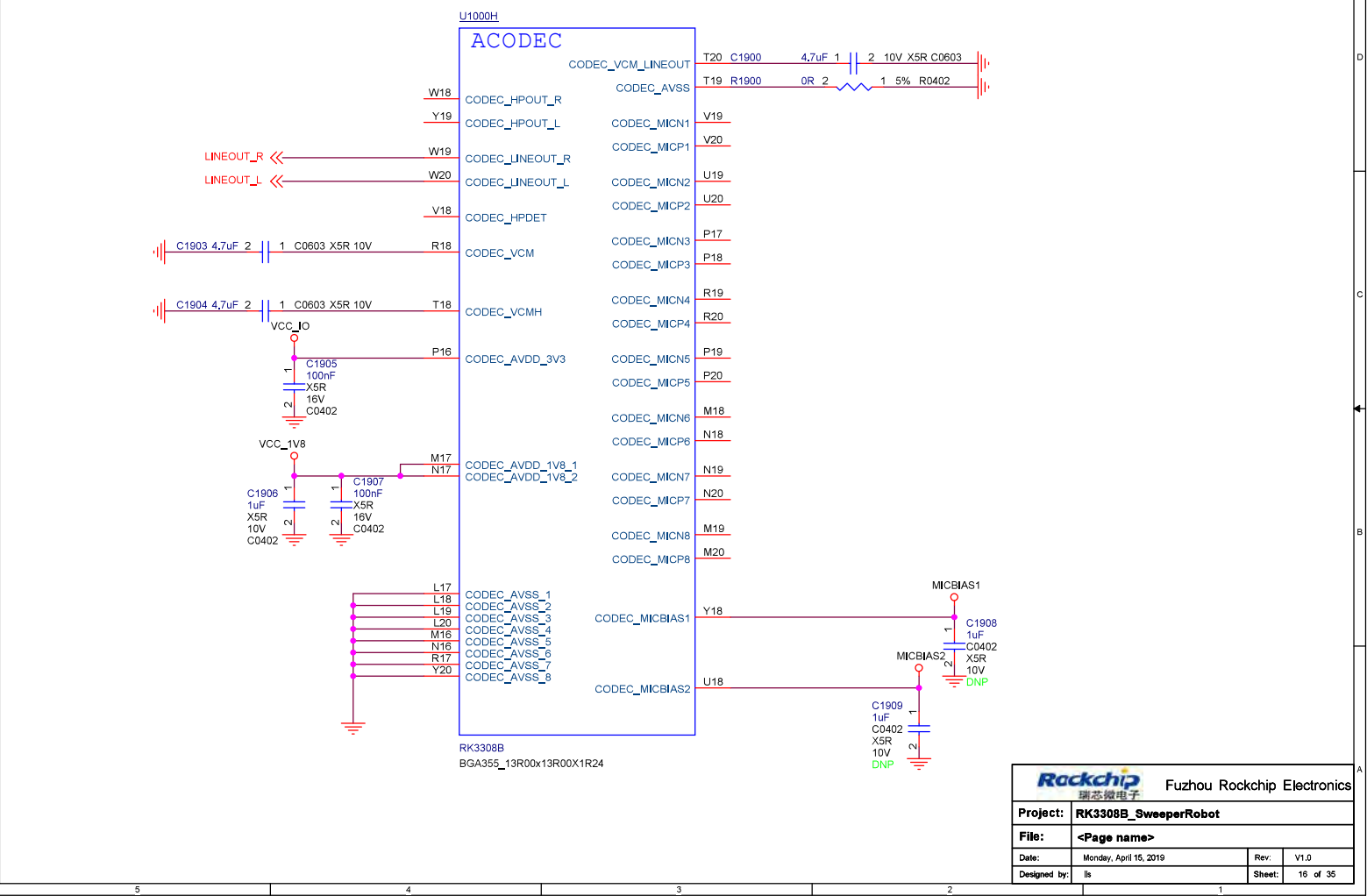


RK3308B Part-D



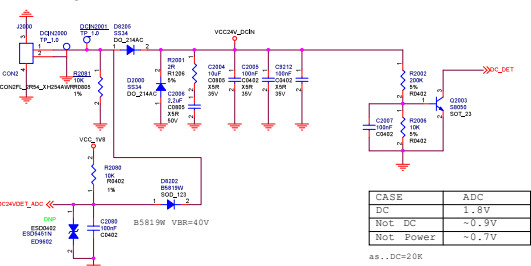
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RK3308B Part-H

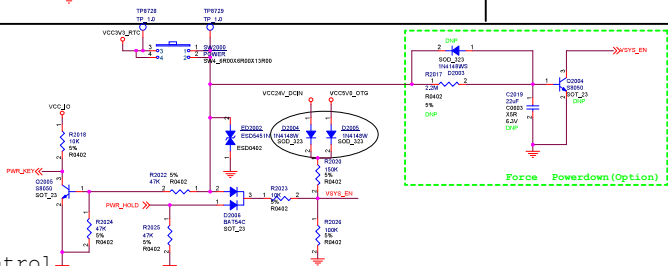
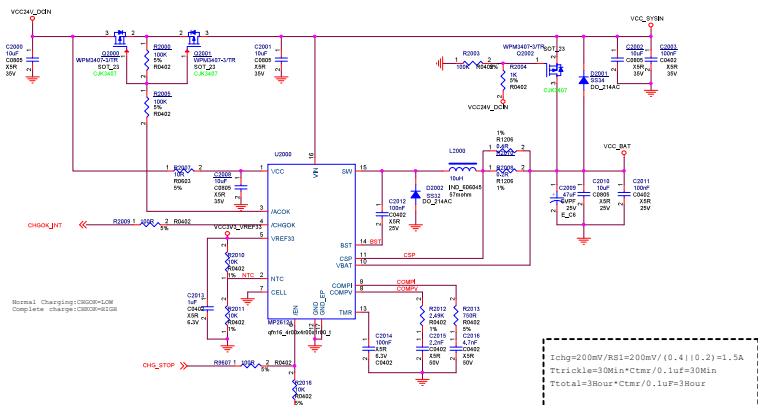
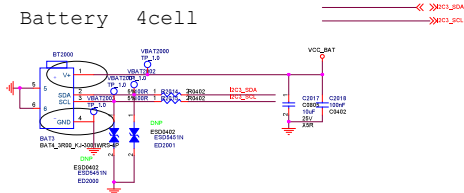


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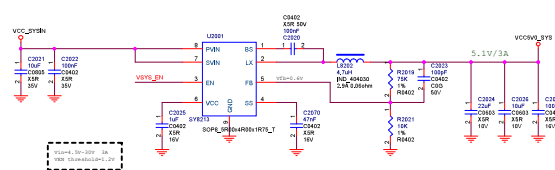
24V DC IN



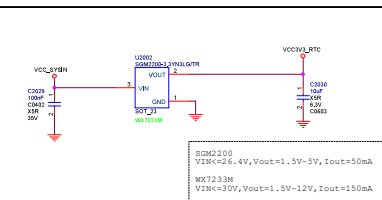
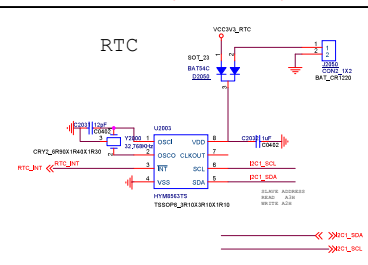
Battery 4cell



5V BUCK



POWER Control



RTC POWER

[illegible]

FLASH

VCC_V05

R2124 1k

VCC_0

R2127 1k

VCC_1

V050_FLASH

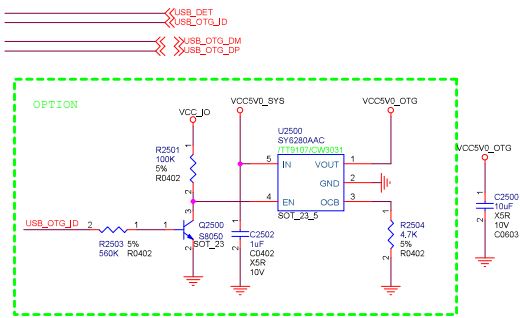
C2226 100pF

R2125 100k

R2126 10k

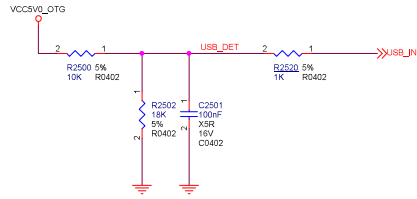
	FLASH_SEL (Pin K3 of RK3308)	VCCIO_FLASH
eMMC	H	1.8V(Default)
	L	3.3V
Nand Flash	H	1.8V
	L	3.3V

OTG POWER

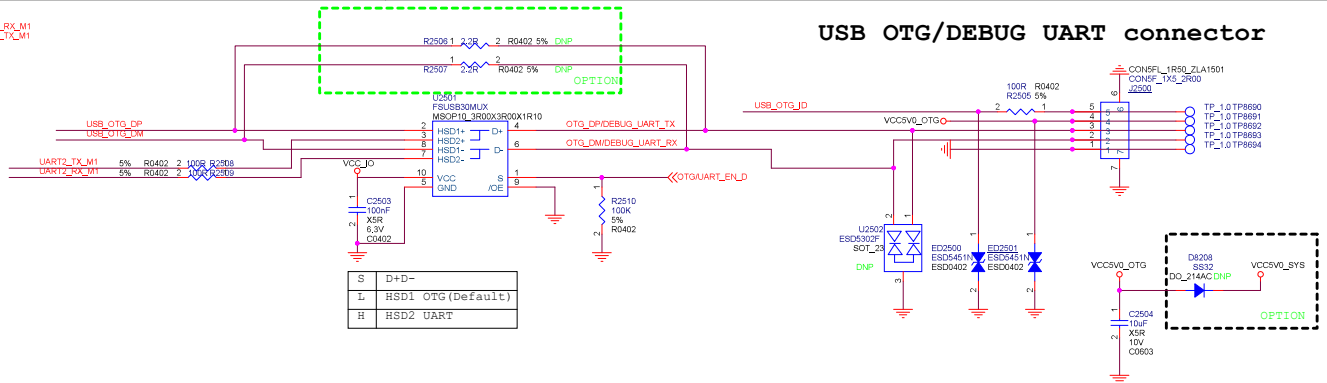


OTG HOST use for U-Disk download firmware .if no use,remove all.

USB OTG DET



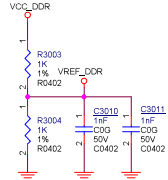
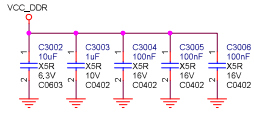
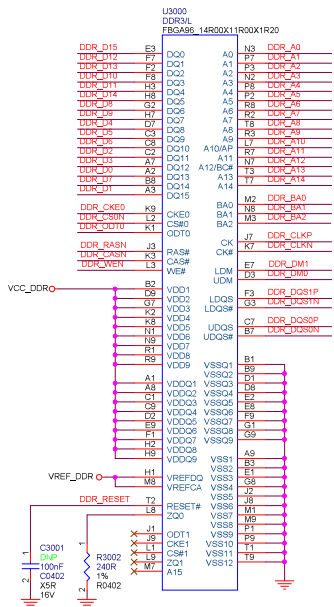
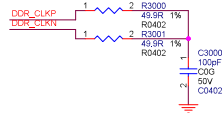
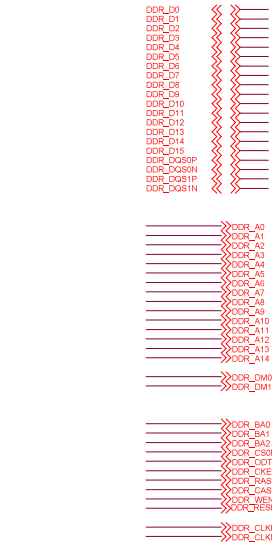
USB OTG/DEBUG UART connector



S	D+D-
L	HSD1 OTG(Default)
H	HSD2 UART

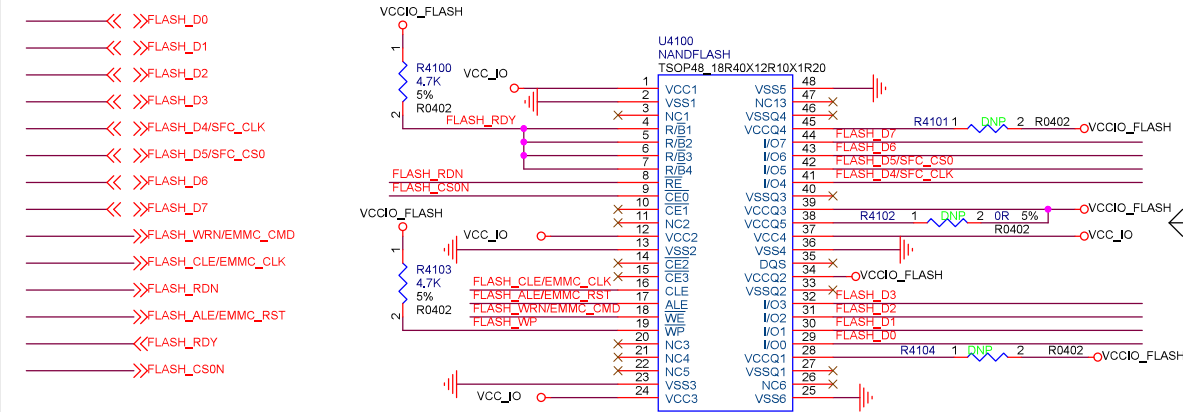
DDR3 1x16bit

Remind: Refer to the latest AVL for parts selection.



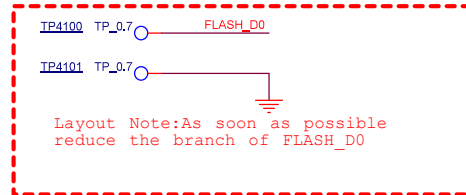
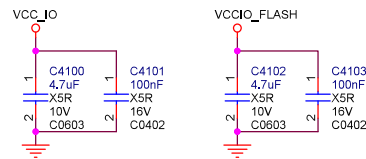
Nand Flash

Remind: Refer to the latest AVL for parts selection.



Note:if use toshiba and sandisk DDR mode,
VCCQ1 and VCCQ4 must be connected to VCCIO_FLASH.

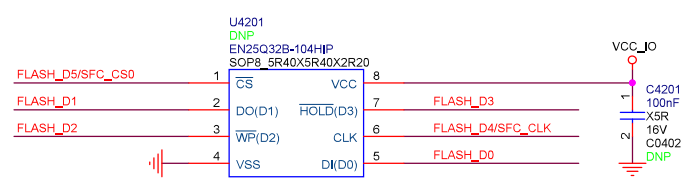
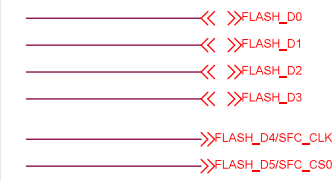
Remind:Short two TP points to Enter MaskRom.



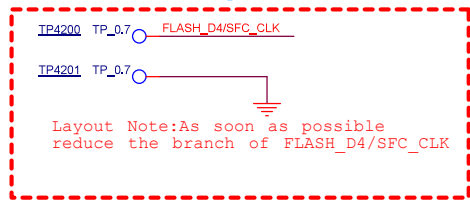
Rockchip 福州瑞芯微电子			
Fuzhou Rockchip Electronics			
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SPI Nor Flash

Remind: Refer to the latest AVL for parts selection.

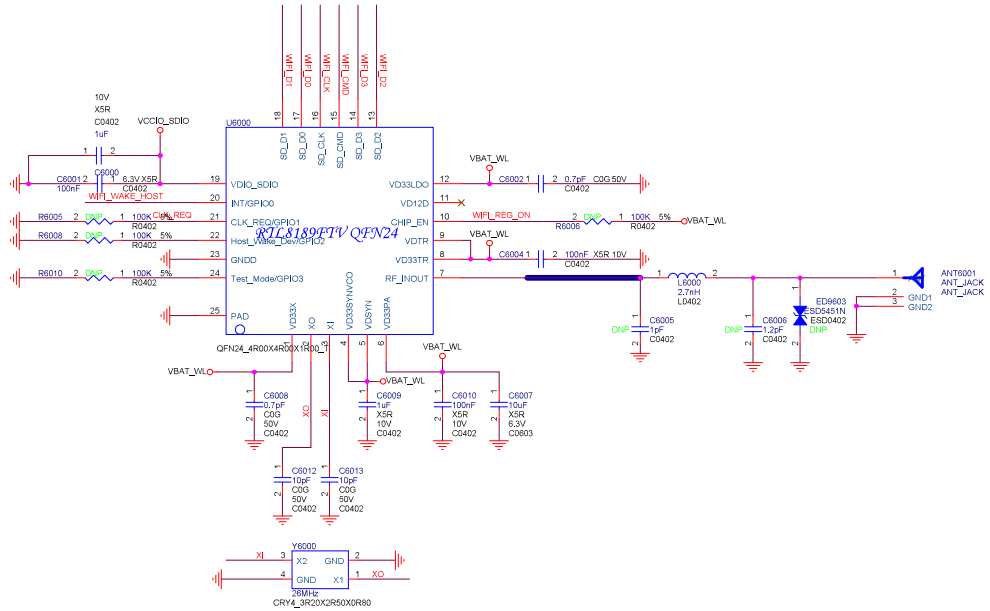


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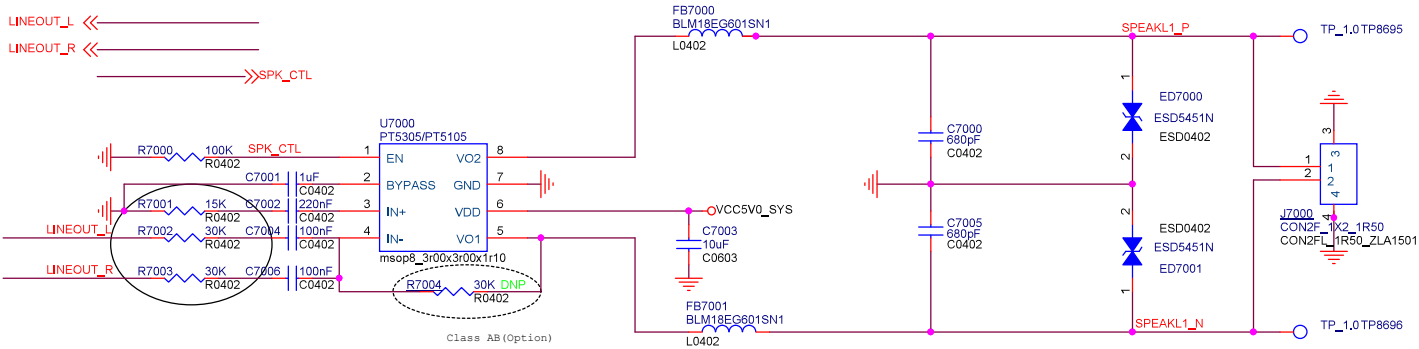


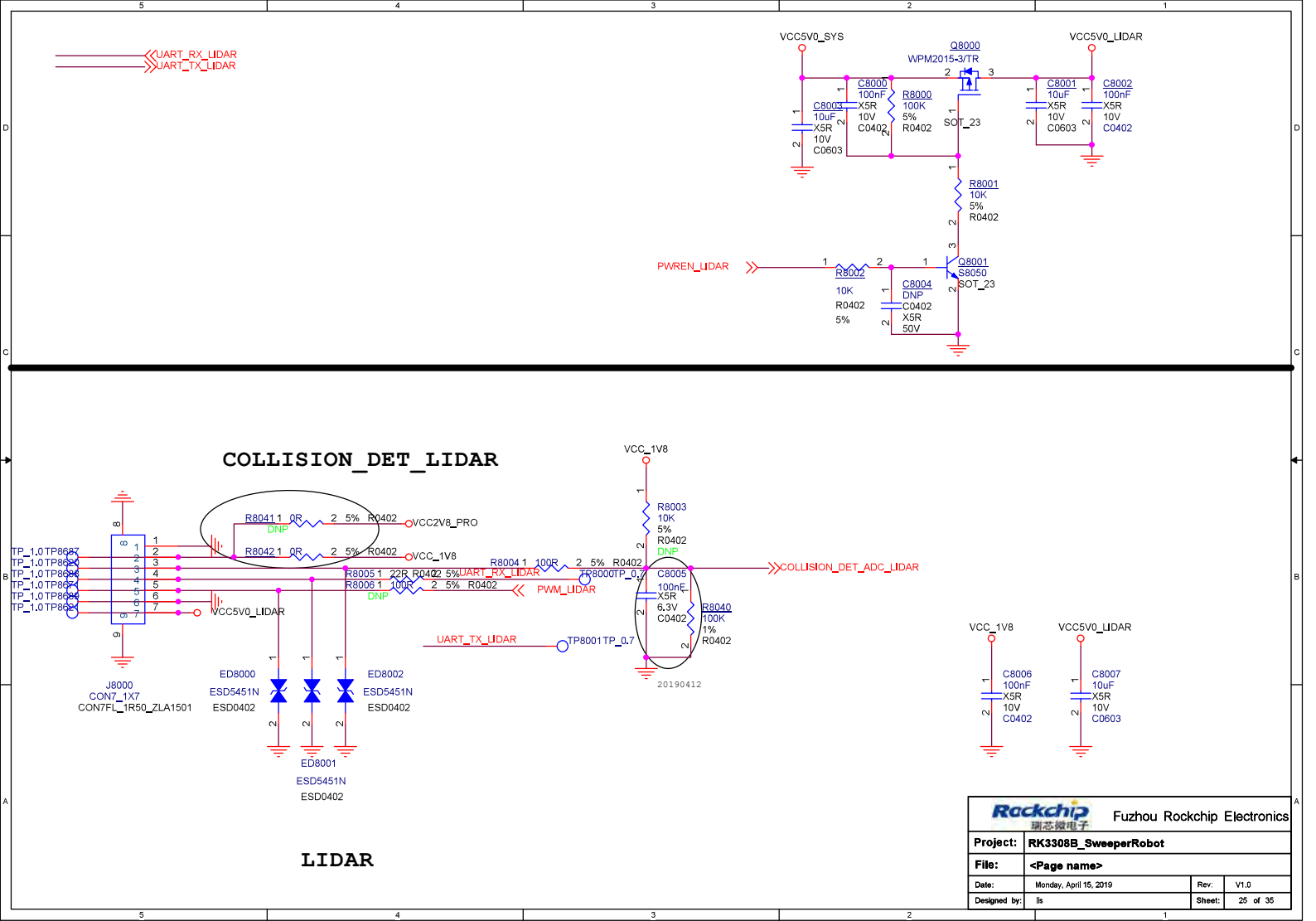
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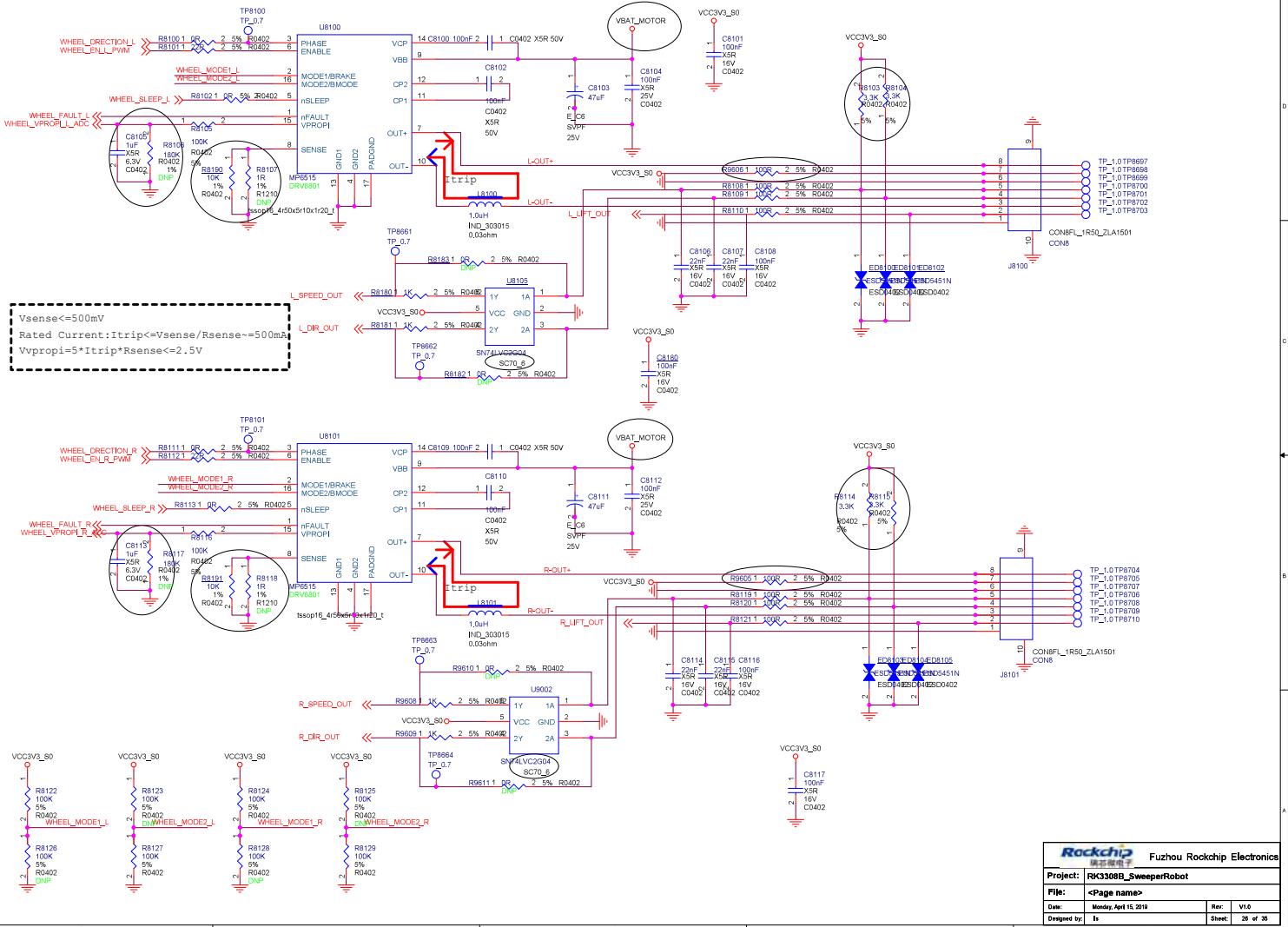
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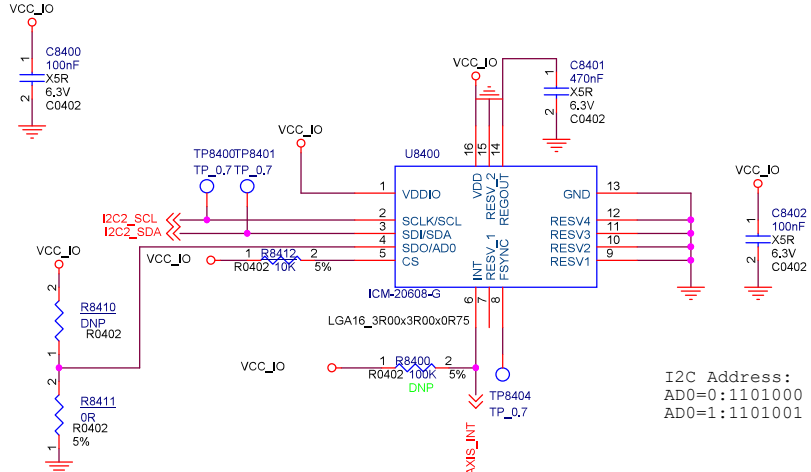


SPEAKER

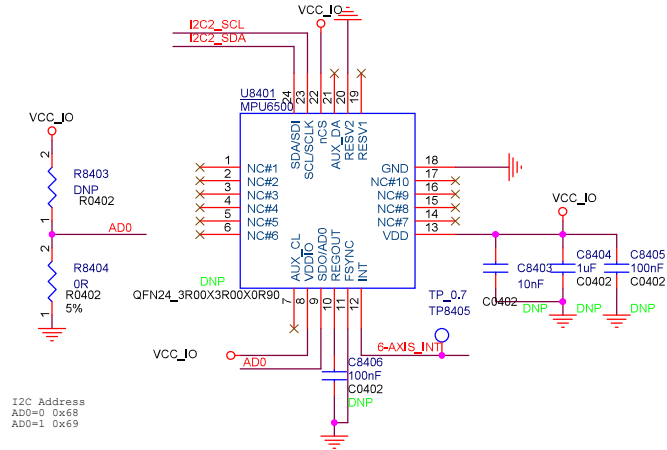






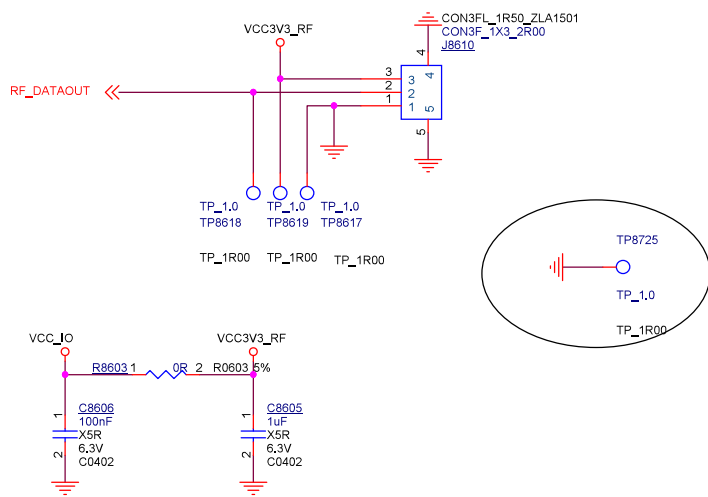


Option1



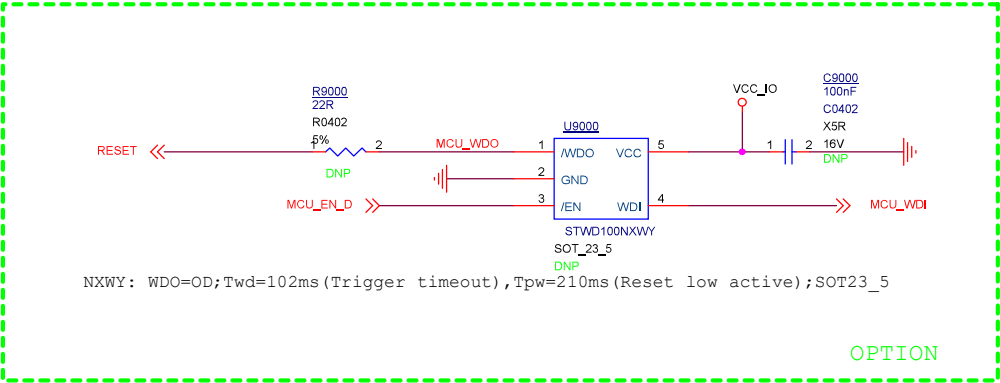
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433 Receiver



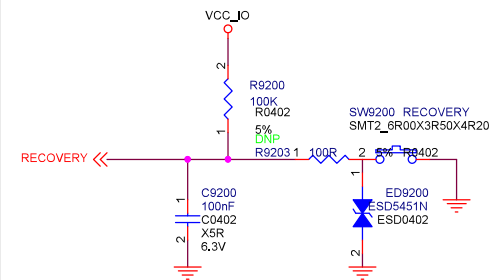
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Project:	RK3308B_SweeperRobot		
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WatchDog MCU

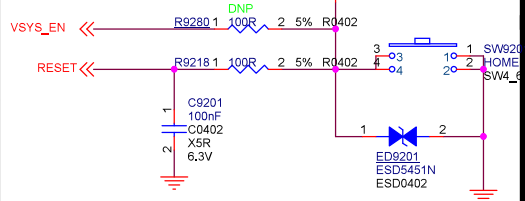


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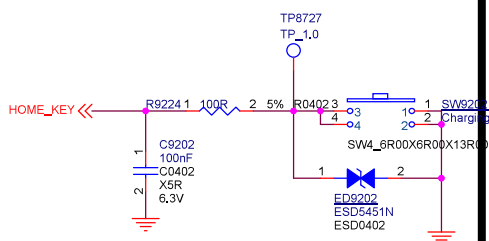
RECOVERY Key (Debug)



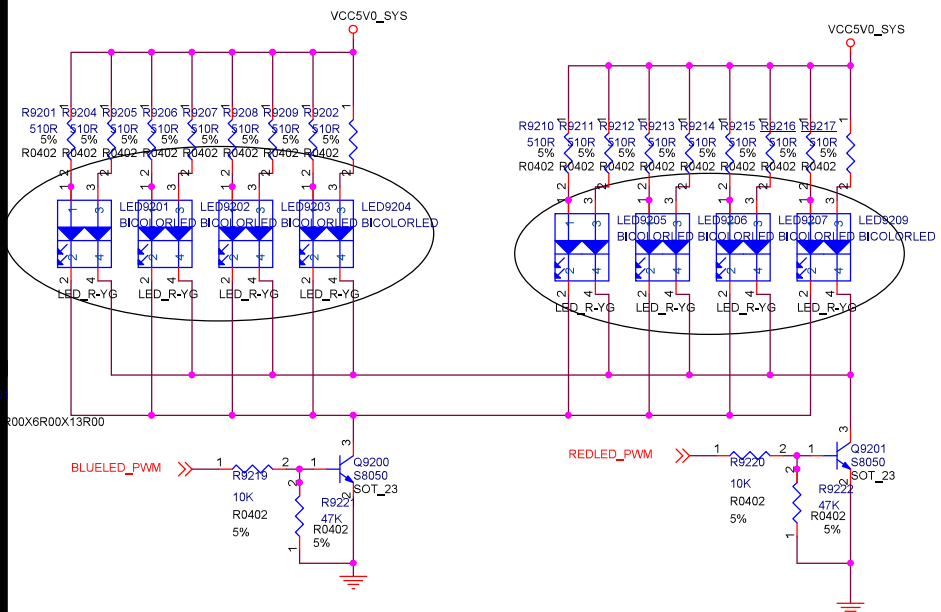
RESET Key



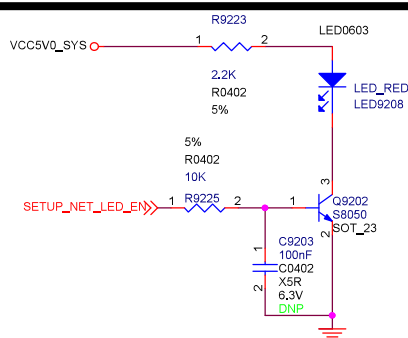
Charging Key



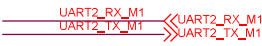
LED



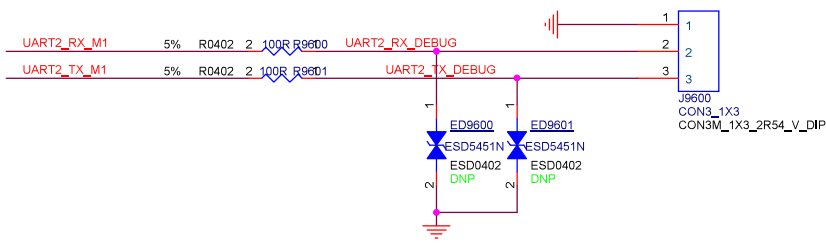
WIFI SET-UP NET LED



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Debug UART2_M1 (Default)



 Fuzhou Rockchip Electronics

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