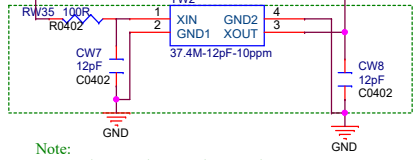
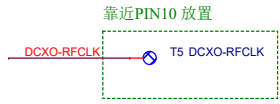
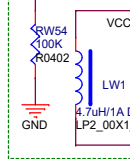
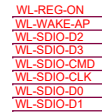
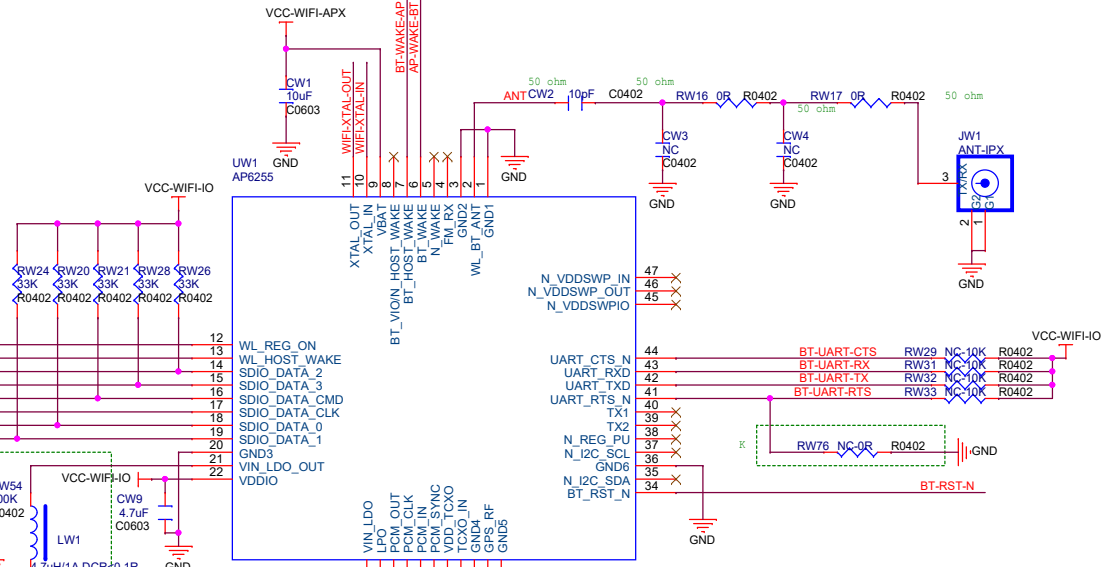
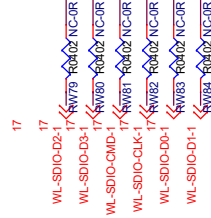


# WIFI

# APXXX/XR812



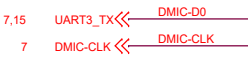
Note:  
 AP6212/AP6234/AP6181/8723BS/AP6330, Y1=26M  
 AP6335/AP6255, Y1=37.4M  
 NOTE:  
 1. If PFL = VCC-WIFI-IO, then paste part M, NC part L,  
 else, NC L paste M

Note:  
 AP6212, Mount M+B+C+E, NC F+G  
 AP6234, Mount M+B+C+E, NC F+G  
 AP6181, Mount M+B+E, NC C+F+G  
 AP6330, Mount M+B+C+E, NC F+G  
 AP6335, Mount L+B+C+E+G, NC F  
 AP6255, Mount L+B+C+E, NC F+G  
 8723BS, Mount F, NC B+C+E+G

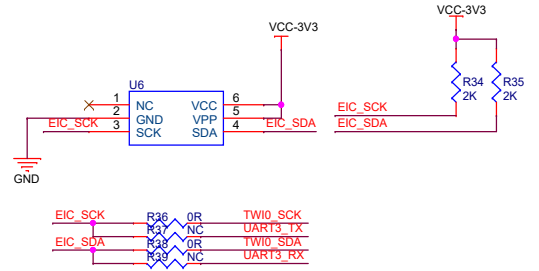
Note:  
 XR812, Mount M+K, NC B+C+E+F+G  
 SOC fanout 24M 晶振在模组上飞线测试

32k耐压电平为1.8V, 请注意上拉电平!

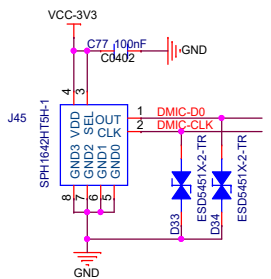
			<b>Linden Tech. Ltd.</b>		
			Design Name <b>Lindenis V536</b>		
Size A3	Page Name WIFI				Rev
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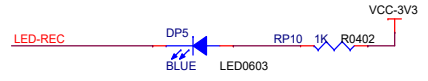
# Encrypt IC



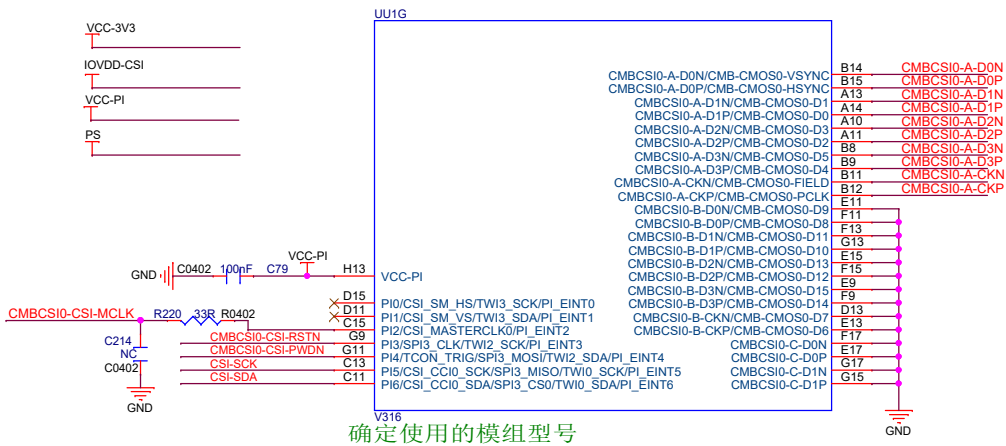
# DMIC



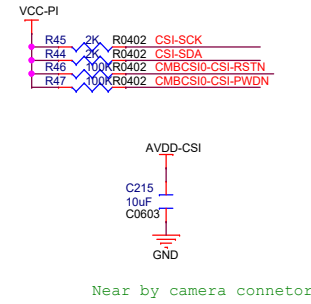
# LED



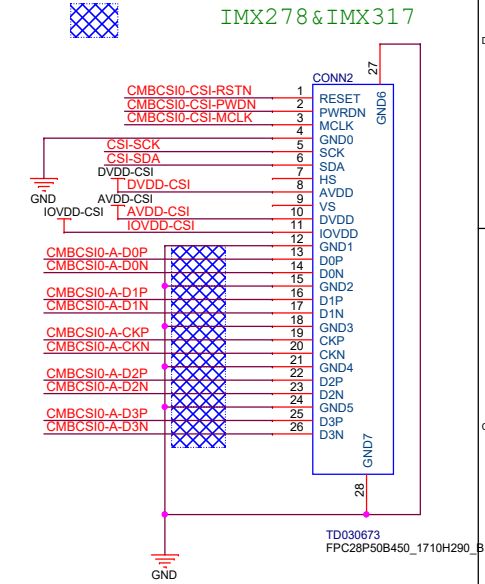
# CSI



# MIPI

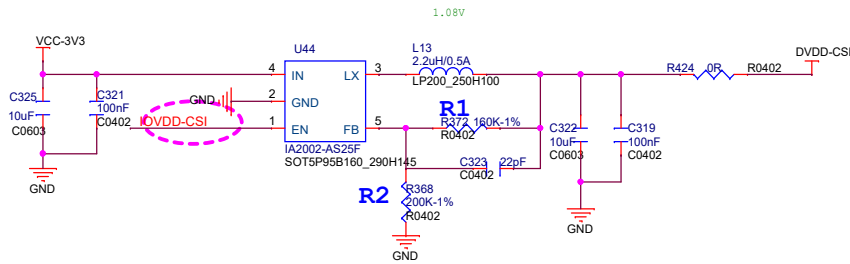


## Differential pairs Z0= 100 ohm

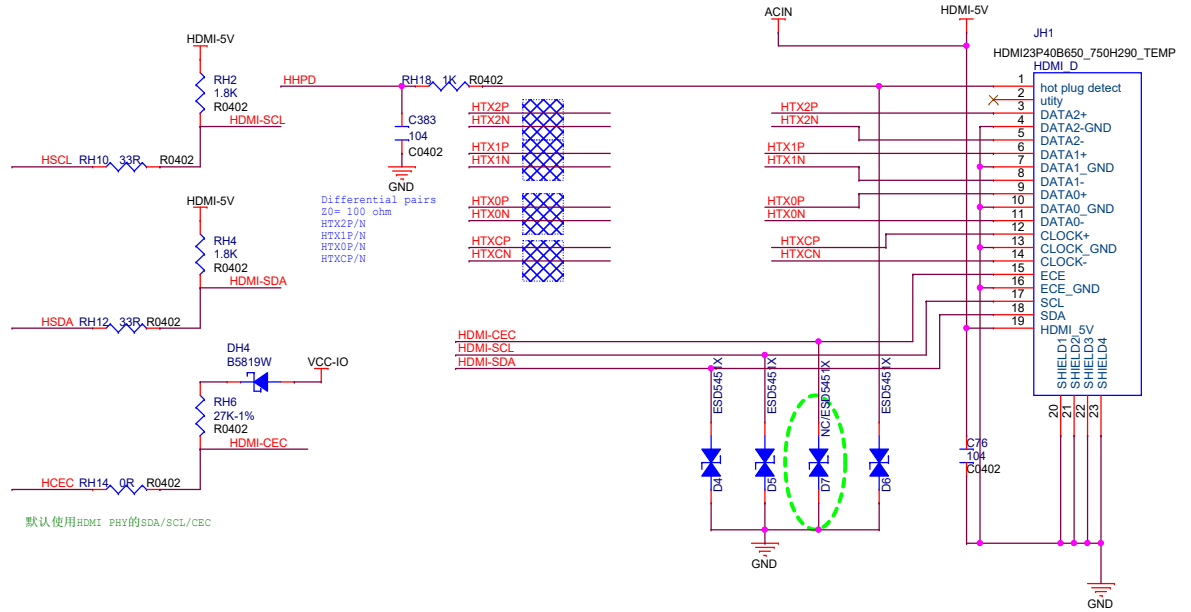
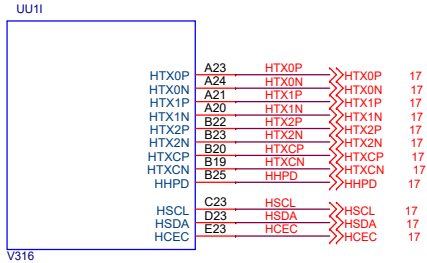


Camera Sensor List :		
IMX386:	AVDD= 2.8V	DVDD= 1.1V IOVDD=1.8V
IMX278:	AVDD= 2.8V	DVDD= 1.1V IOVDD=1.8V

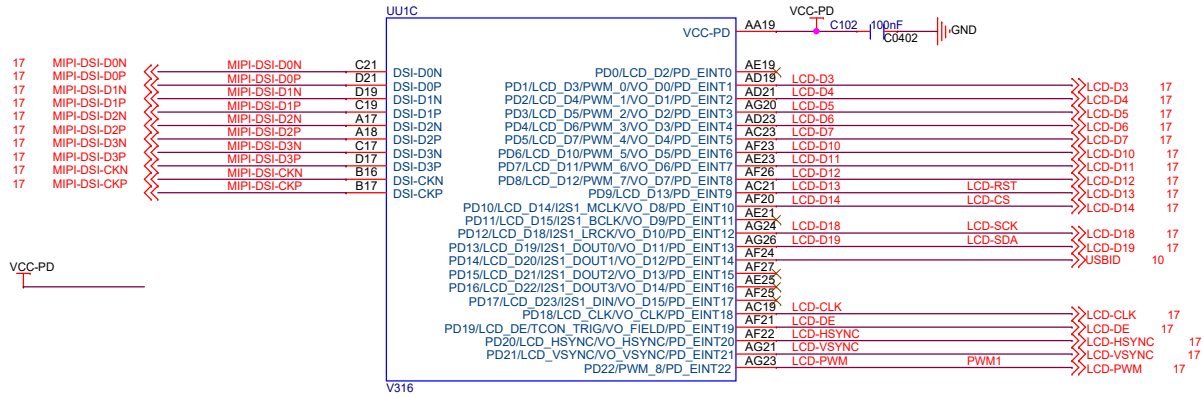
- 注:
- 1.Camera Sensor端Reset信号加104到地电容。否则模组抗ESD能力弱，导致摄像头不稳定。
  - 2.Camera Sensor端AVDD加10uF。



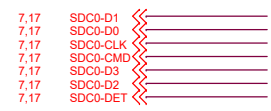
# HDMI



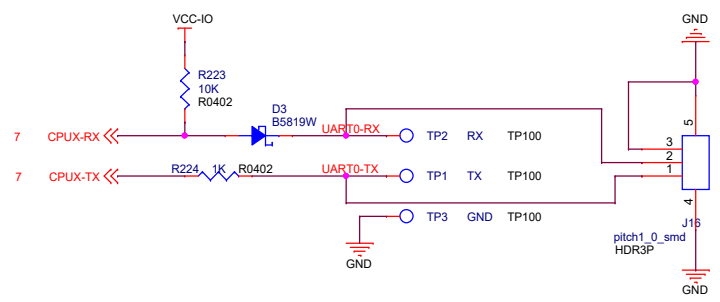
# LCD



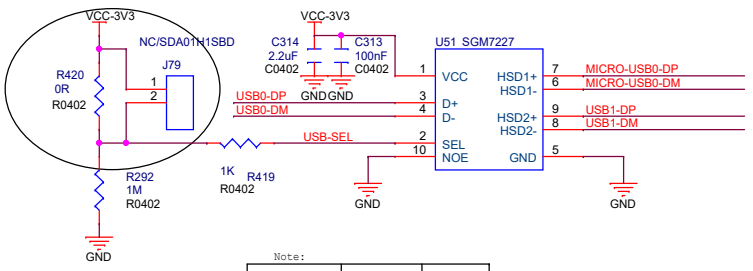
# CARD



VCC-CARD

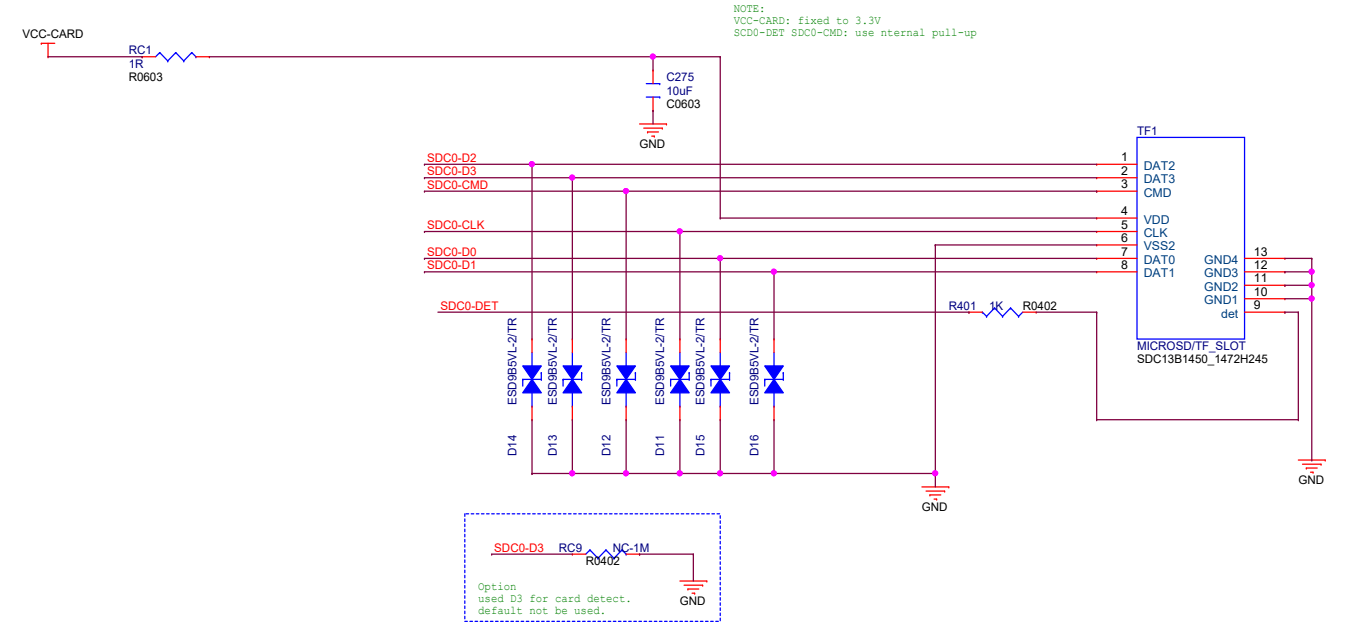


# MicroUSB

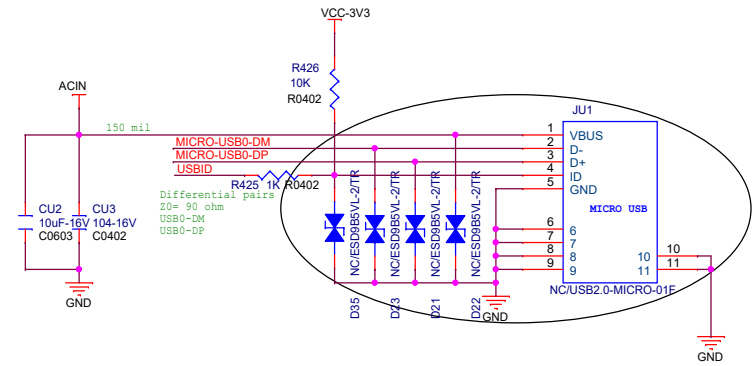


Note:

USB-SEL	MICRO-USB	USB1
L	ON	OFF
H	OFF	ON



NOTE:  
 VCC-CARD: fixed to 3.3V  
 SDC0-DET SDC0-CMD: use internal pull-up



Note: Make sure the routing between the ESD and the USB connectors should be on the same PCB side

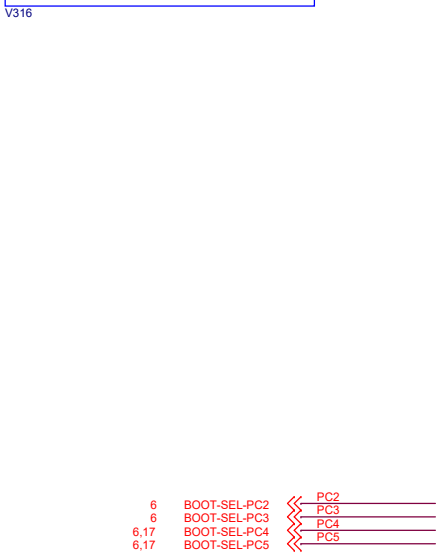
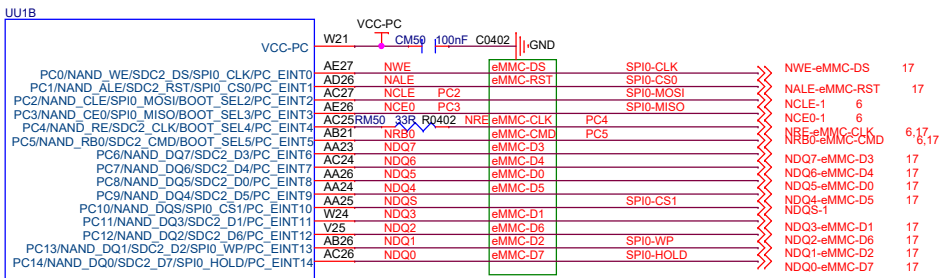
**Linden Tech. Ltd.**

Design Name: **Linden V536**

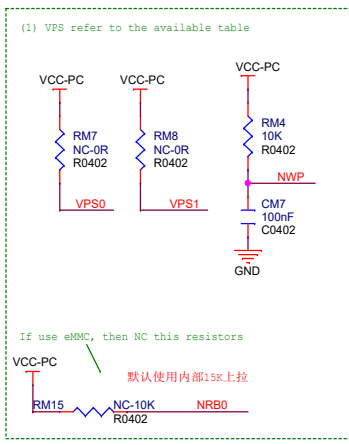
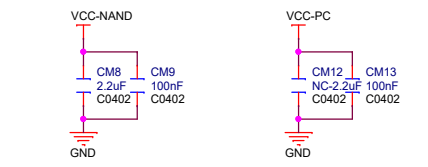
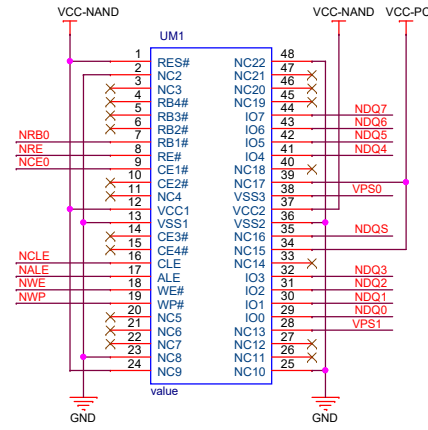
Size: A3	Page Name: <b>CARD USB</b>	Rev:
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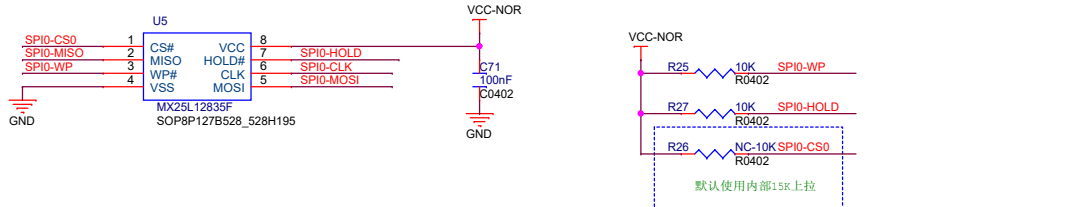
# NOR



# NAND

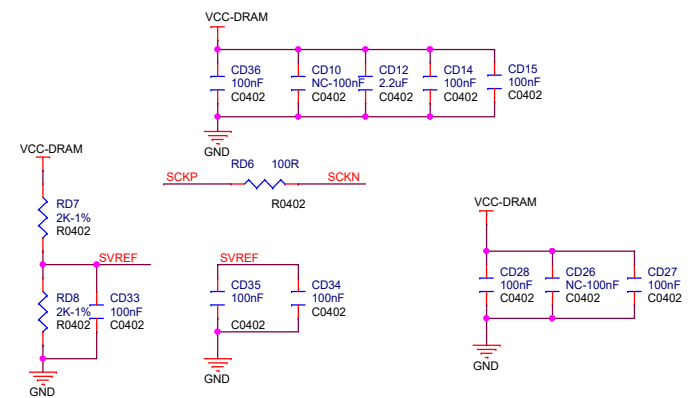
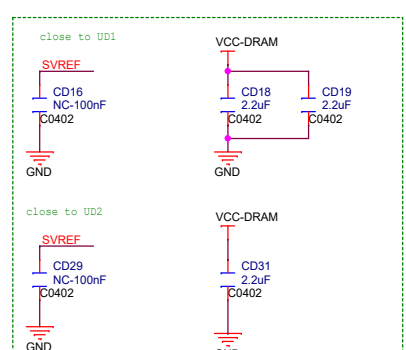
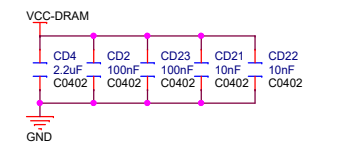
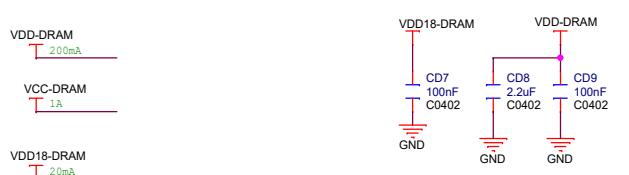
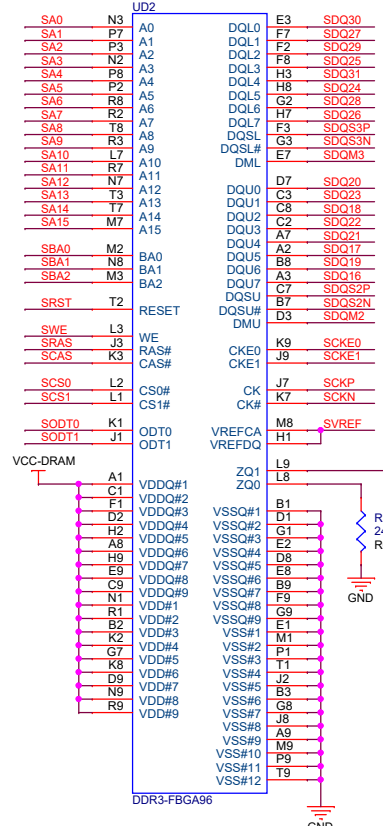
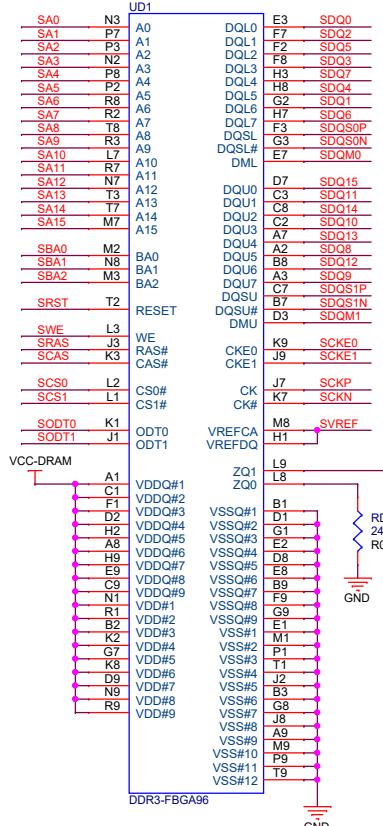
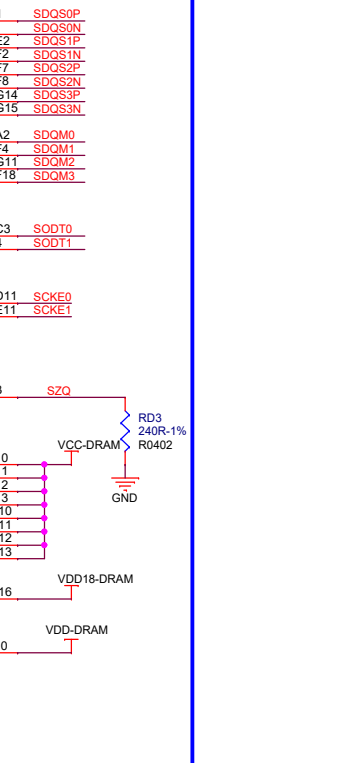
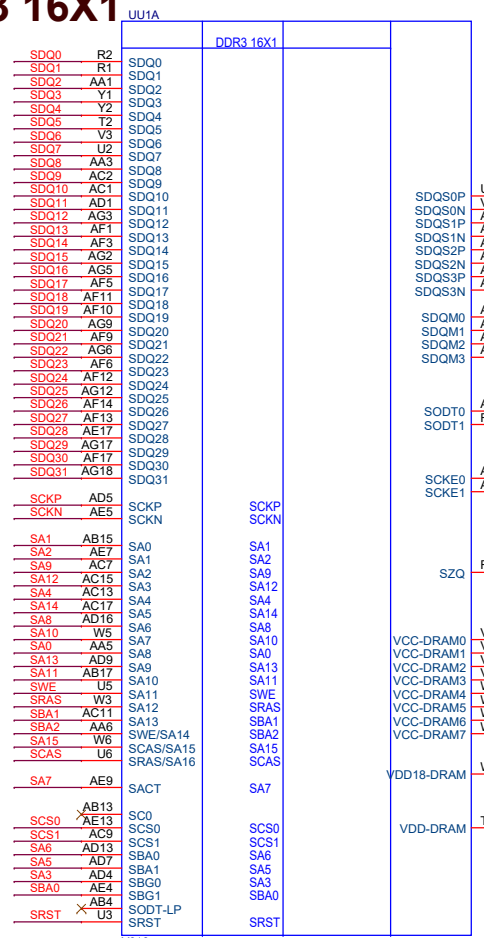


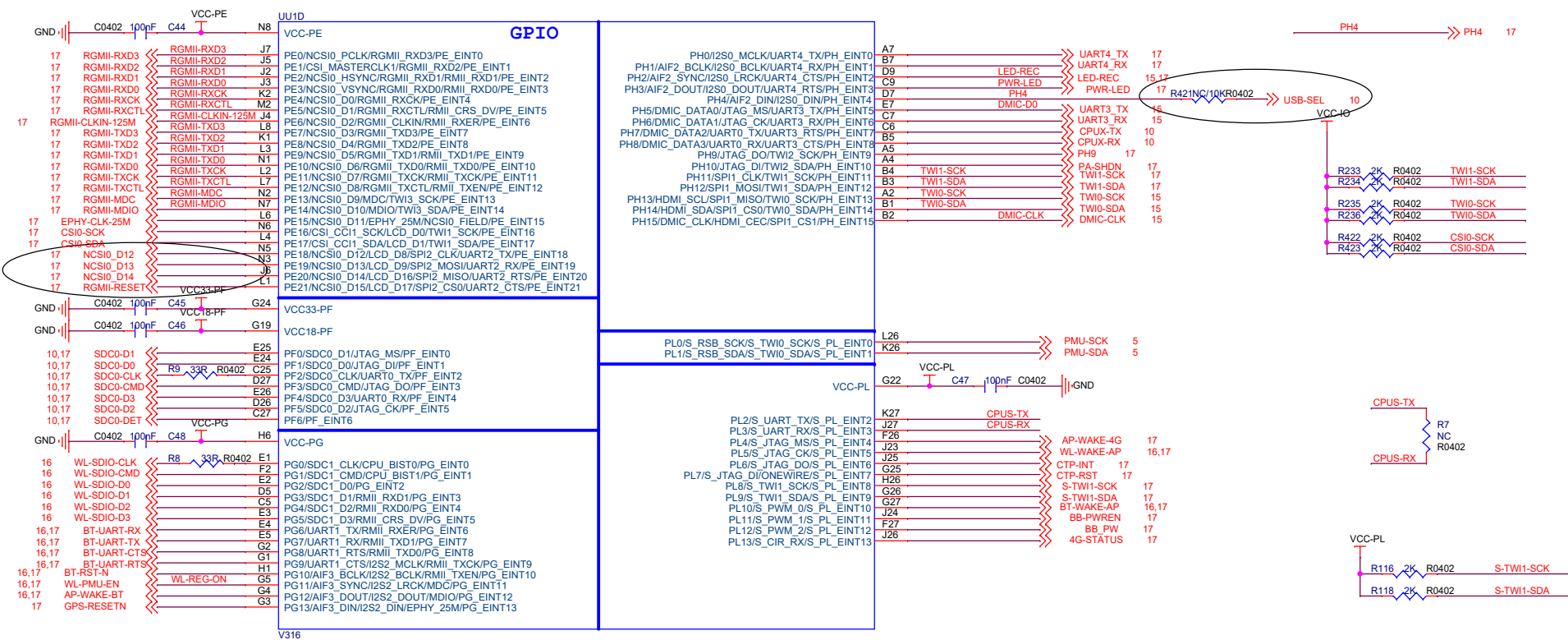
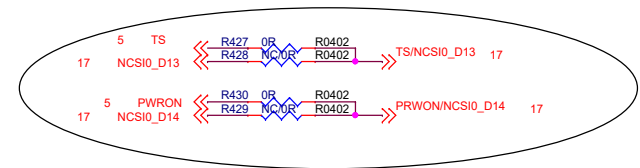
If use eMMC, then NC this resistors  
 默认使用内部15k上拉  
 RM15 NC-10K R0402 NRB0



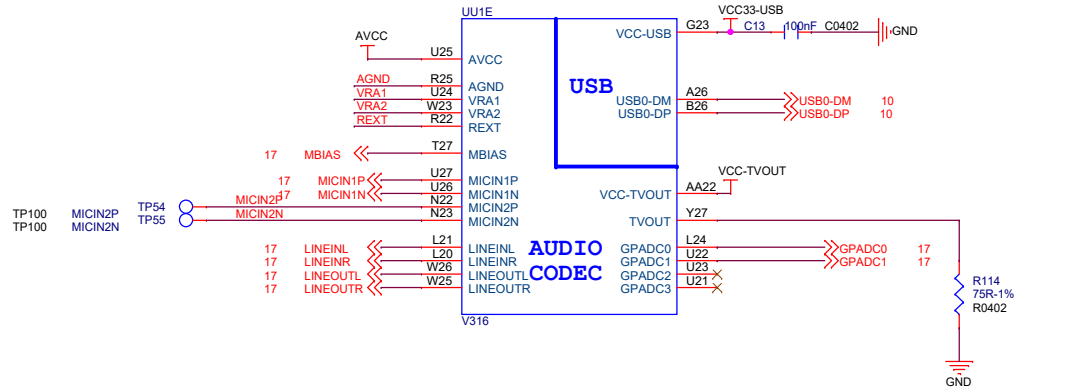
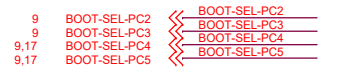
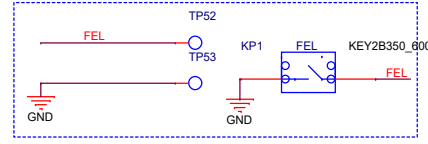
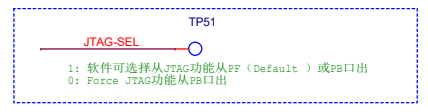
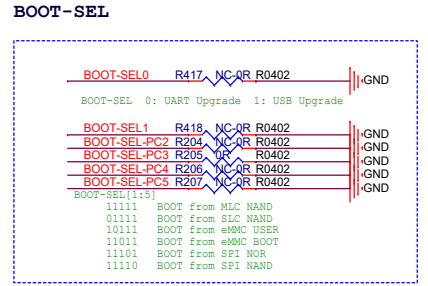
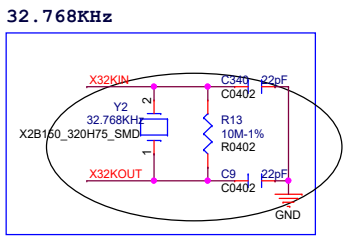
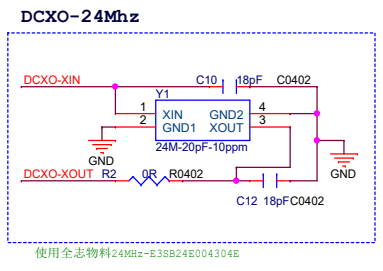
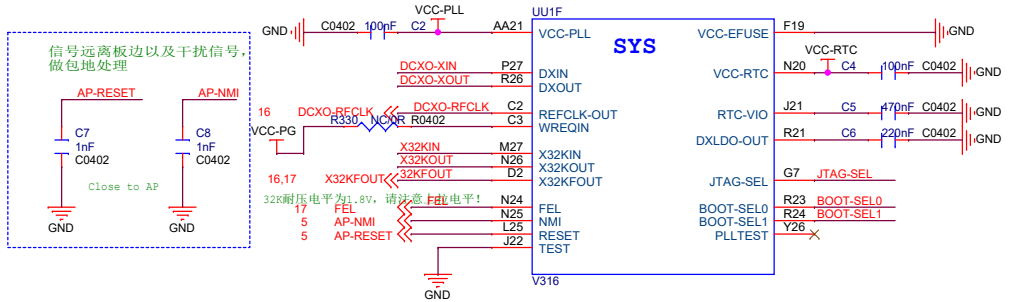


# DDR3 16X1



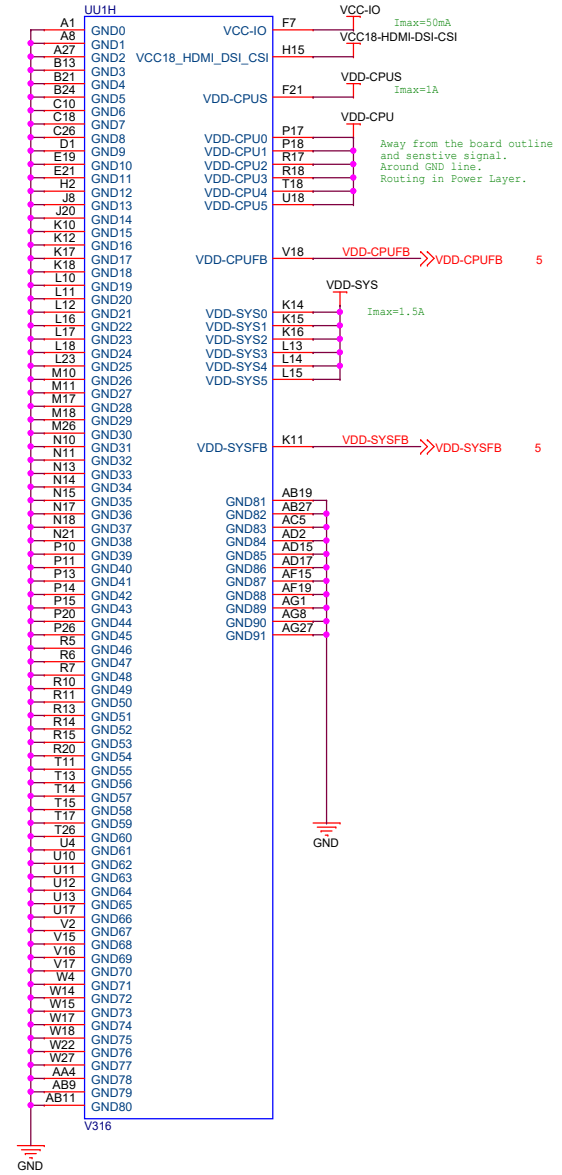
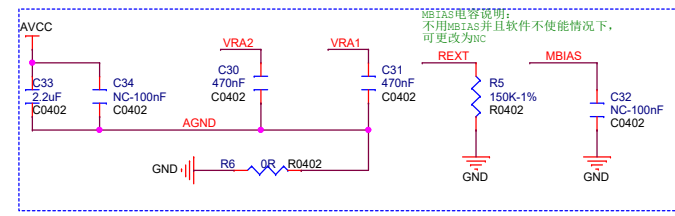
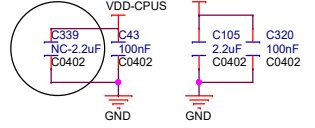
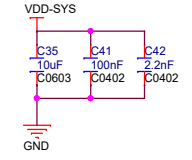
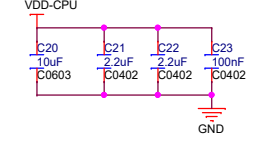


# CPU

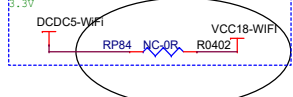
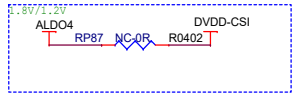
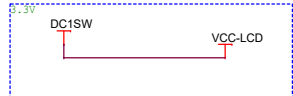
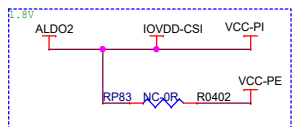
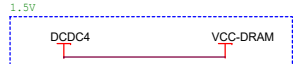
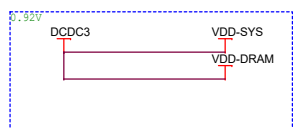
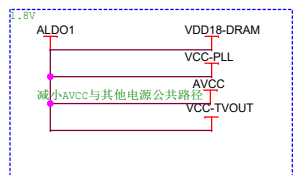
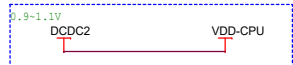
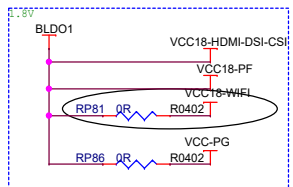
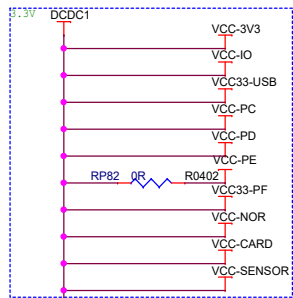


## DECOUPLE CAP

2.2uF 0402封装根据layout 情况更改为0603封装 需再次进行P+仿真



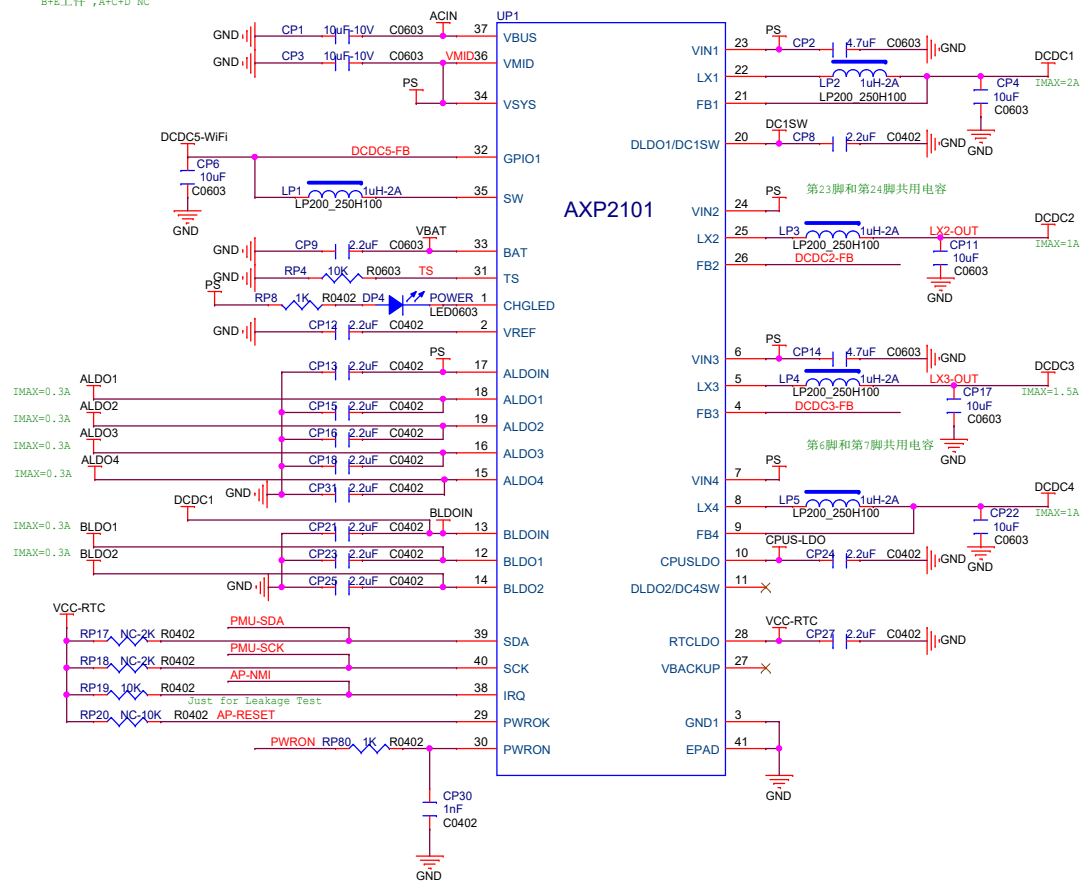
<b>Lindenis Tech. Ltd.</b>		
Design Name: <b>Lindenis V536</b>		
Size: A3	Page Name: CPU	Rev:
Date: Tuesday, October 13, 2020	Sheet: 11	of 14



# AXP2101

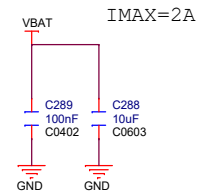
线性充电无DCDC: A上件, B+C+D+E NC  
 线性充电+DCDC5: A+C+D+E上件, B NC (默认)  
 开关充电: B+E上件, A+C+D NC

线性充电时 PS电压跟随VBUS电压



- 6 VDD-CPUFB << DCDC2-FB
- 6 VDD-SYSFB << DCDC3-FB
- 7 PMU-SDA << SDA
- 7 PMU-SCK << SCK
- 6 AP-NMI << AP-NMI
- 6 AP-RESET << AP-RESET
- 17 PWRON << PWRON
- 17 TS << TS

## BAT IN



<b>Lindenis Tech. Ltd.</b>		
Design Name		
<b>Lindenis V536</b>		
Size	Page Name	Rev
A3	<b>POWER PMU</b>	
Date:	Saturday, January 04, 2020	Sheet 11 of 14

# GPIO ASSIGNMENT

注意：修改电路时请注意同步修改GPIO口说明

PIN	Define	CFG	Function
PC0	SPIO-CLK	4	SPI
PC1	SPIO-CS0	4	
PC2	SPIO-MOSI	4	
PC3	SPIO-MISO	4	
PC4	BOOT-SEL-PC4	7	
PC5		7	
PC6		7	
PC7		7	
PC8		7	
PC9		7	
PC10		7	
PC11		7	
PC12		7	
PC13	SPIO-WP	4	
PC14	SPIO-HOLD	4	

PIN	Define 1	CFG	Function
PD0		7	LCD
PD1	LCD-D3	2	
PD2	LCD-D4	2	
PD3	LCD-D5	2	
PD4	LCD-D6	2	
PD5	LCD-D7	2	
PD6	LCD-D10	2	
PD7	LCD-D11	2	
PD8	LCD-D12	2	
PD9	LCD-RST	1	
PD10	LCD-CS	1	
PD11		7	
PD12		7	
PD13		7	
PD14		7	
PD15		7	
PD16		7	
PD17		7	
PD18	LCD-CLK	2	
PD19	LCD-DE	2	
PD20	LCD-HSYNC	2	
PD21	LCD-VSYNC	2	
PD22	LCD-PWM	2	

PIN	Define	CFG	Function
PE0		7	
PE1		7	
PE2		7	
PE3		7	
PE4		7	
PE5		7	
PE6		7	
PE7		7	
PE8		7	
PE9		7	
PE10		7	
PE11		7	
PE12		7	
PE13		7	
PE14		7	
PE15		7	
PE16		7	
PE17		7	
PE18		7	
PE19		7	
PE20		7	
PE21		7	

PIN	Define	CFG	Function
PF0	SDC0-D1	2	CARD0
PF1	SDC0-D0	2	
PF2	SDC0-CLK	2	
PF3	SDC0-CMD	2	
PF4	SDC0-D3	2	
PF5	SDC0-D2	2	
PF6	SDC0-DET	6	


PIN	Define 1	CFG	Function
PG0	WL-SDIO-CLK	2	WIFI
PG1	WL-SDIO-CMD	2	
PG2	WL-SDIO-D0	2	
PG3	WL-SDIO-D1	2	
PG4	WL-SDIO-D2	2	
PG5	WL-SDIO-D3	2	
PG6			
PG7			
PG8			
PG9	I2S2-MCLK	3	AC101S
PG10	I2S2-BCLK	3	
PG11	I2S2-LRCK	3	
PG12	I2S2-DOUT	3	
PG13	I2S2-DIN	3	

PIN	Define	CFG	Function	
PH0	PA-SHDN	1	OLED	
PH1	GY-INT	6		
PH2				
PH3	OLED-RES	1		
PH4	OLED-SA0	1		
PH5	LED-WIFI	1		
PH6	LED-SOS	1		
PH7	UART0-TX	3		UART
PH8	UART0-RX	3		
PH9	TWI2-SCK	5		GYRO
PH10	TWI2-SDA	5		
PH11	TWI1-SCK	5		TP SENSOR
PH12	TWI1-SDA	5		
PH13	TWI0-SCK	5		AC101S/OLED
PH14	TWI0-SDA	5		
PH15	LED-REC	1		

PIN	Define1	CFG	Function
PI0			CSI
PI1			
PI2	CMBCSI0-CSI-MCLK	2	
PI3	CMBCSI0-CSI-RSTN	1	
PI4	CMBCSI0-CSI-PWDN	1	
PI5	CSI-SCK	2	
PI6	CSI-SDA	2	

PIN	Define 1	CFG	Function
PL0	RSB-SCK	2	PMIC
PL1	RSB-SDA	2	

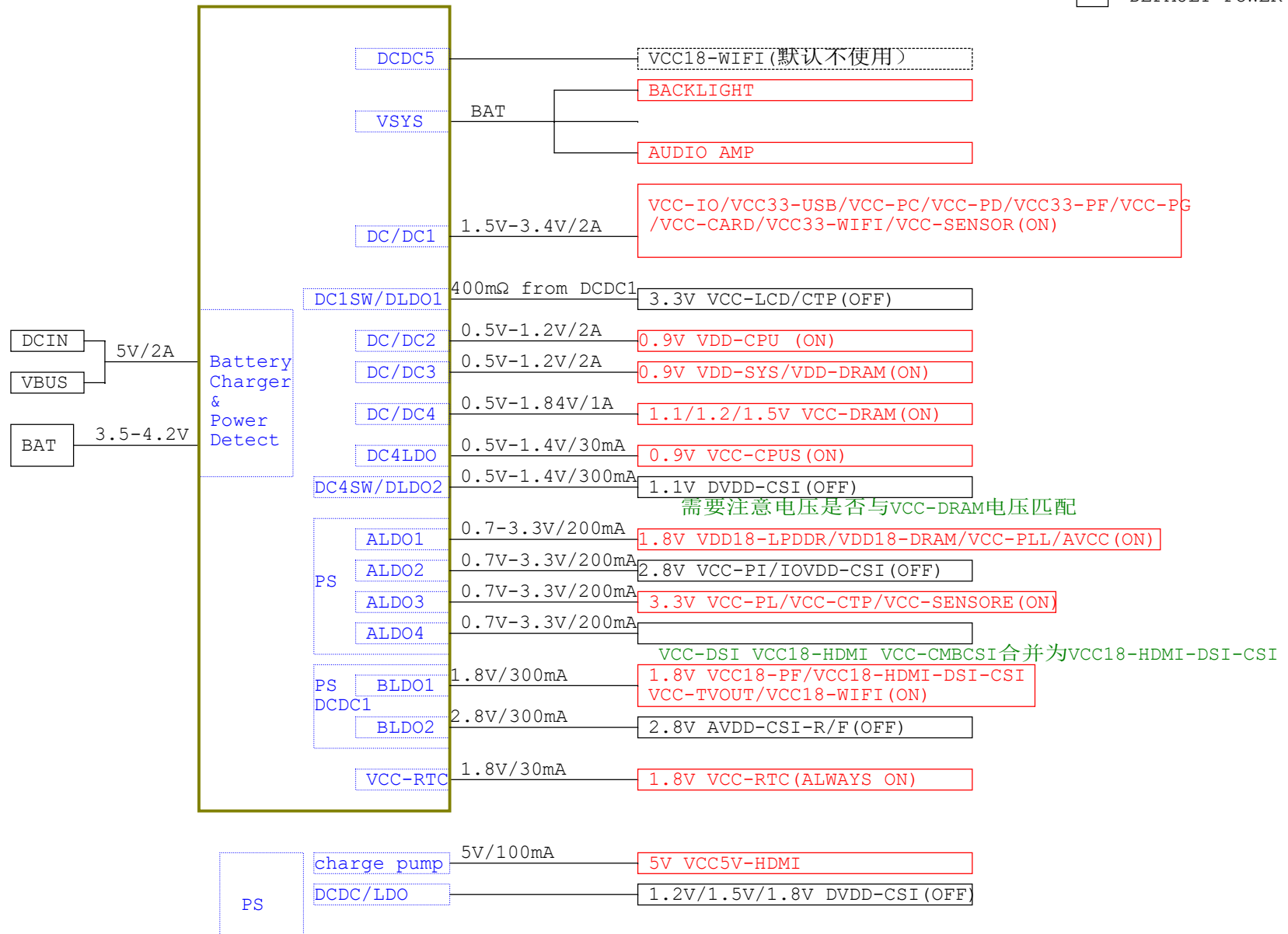
PIN	Define 1	CFG	Function	
PL2	CPUS-TX	2	S-UART	
PL3	CPUS-RX	2		
PL4	KEY-OK	7		
PL5	WL-WAKE-AP	6		
PL6	CTP-INT	6		
PL7	CTP-RST	1		
PL8	S-TWI1-SCK	2		
PL9	S-TWI1-SDA	2		
PL10				
PL11	PL11-SYSEN	1		
PL12	WL-PMU-EN	1		
PL13	IRO-RX	2		IRO-RX

<b>Linden Tech. Ltd.</b>			
		Design Name <b>Linden V536</b>	
Size A3	Page Name <b>GPIO ASSINMENT</b>	Rev	
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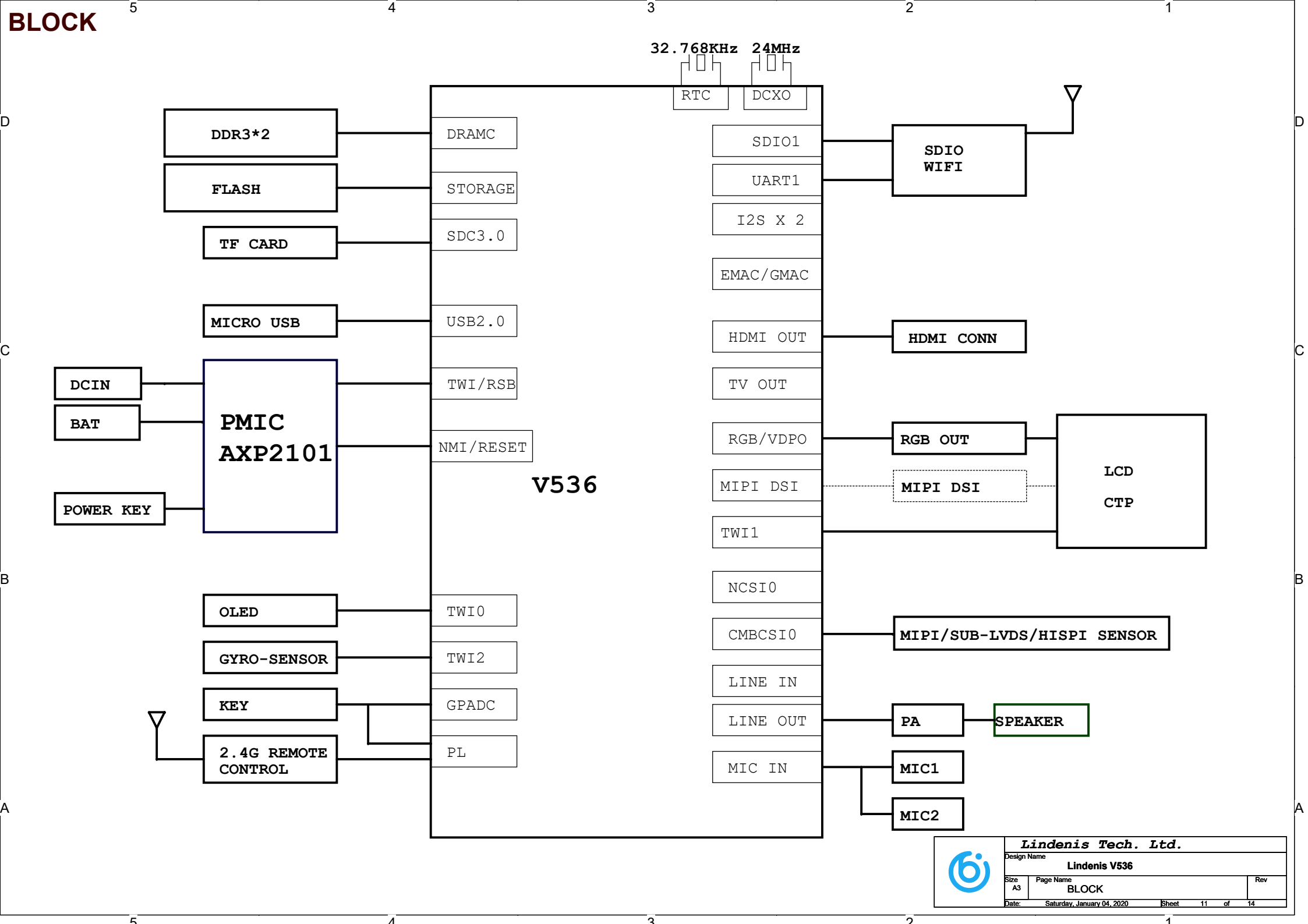
# POWER TREE

## AXP2101

DEFAULT POWER ON  
 DEFAULT POWER OFF

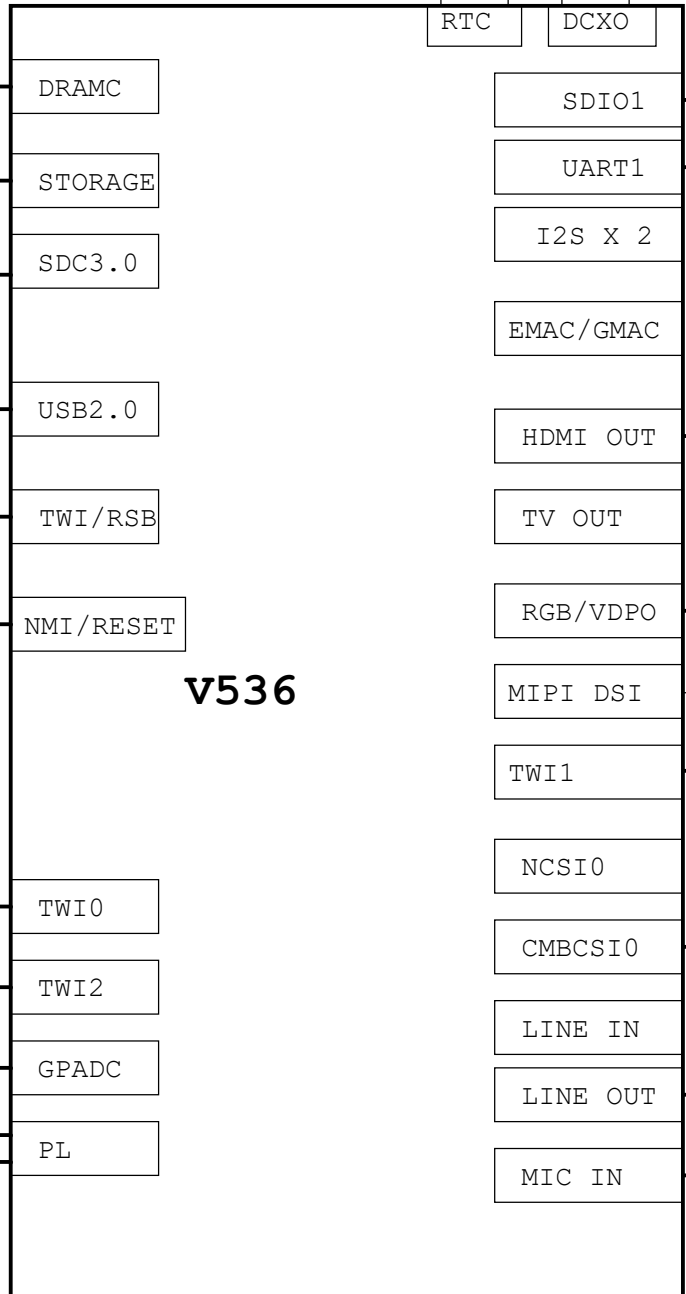


- 1、注意PC口电压
- 2、注意PE口电压
- 3、注意PG口电压
- 4、需要支持USB standby唤醒时，VCC33-USB和VCC-PL合并



# BLOCK

32.768KHz 24MHz



<b>Lindenis Tech. Ltd.</b>			
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Revision	Description	Date	Drawn	Checked
Ver 0.1	Initial Version	2019-08-26	HXF	

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