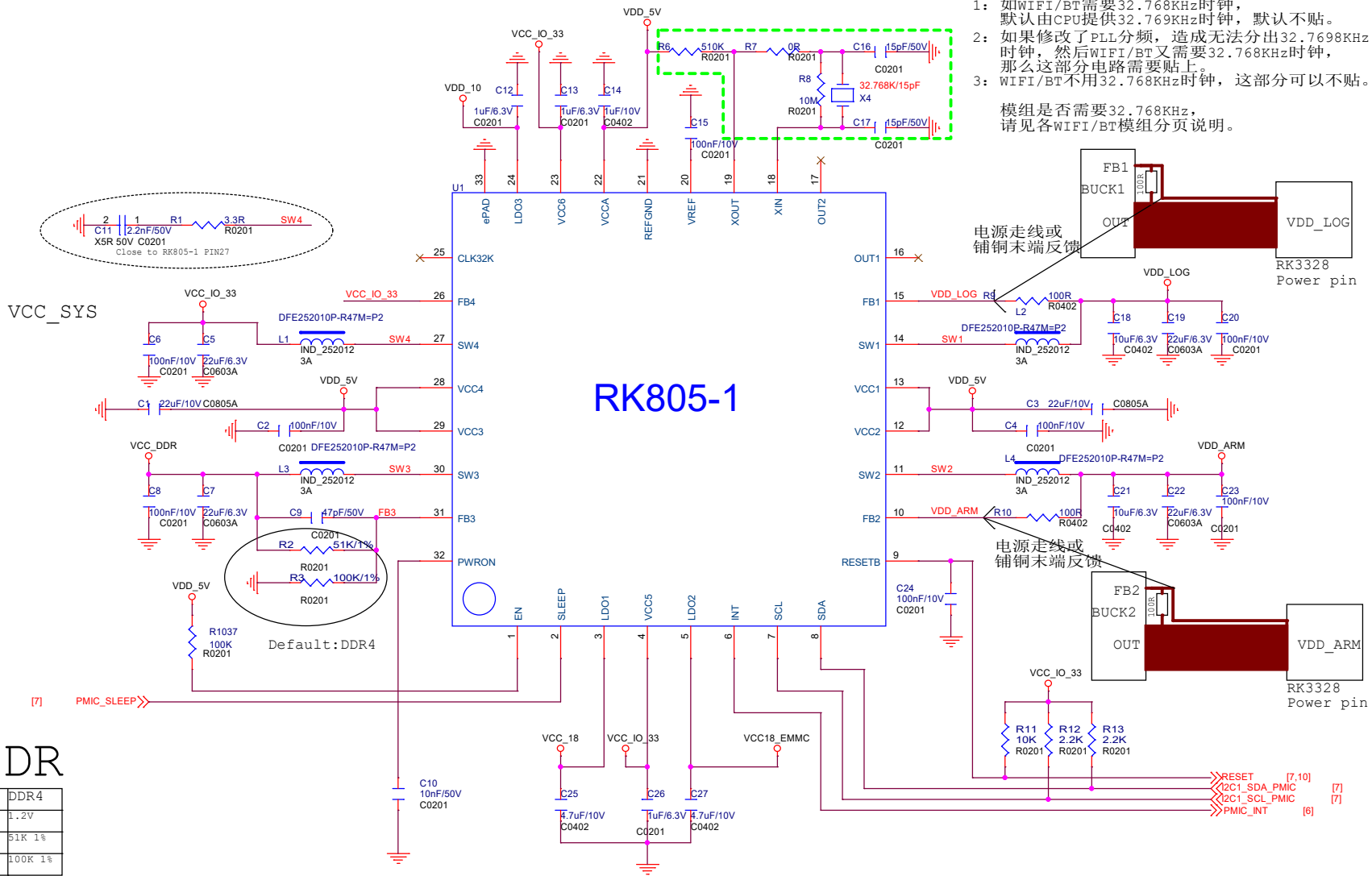


Power Timing

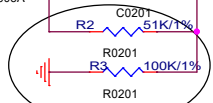
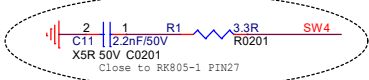
TYPE	VOLT	STEP	PowerName
BUCK1	1.1V		VDD_LOG
BUCK2	1.1V		VDD_ARM
BUCK3	FB=0.8V		VCC_DDR
BUCK4	3.3V		VCC_IO
LDO1	1.8V		VCC_18
LDO2	1.8V		VCC18_eMMC
LDO3	1.0V		VDD_10

IO电源域电压	IO电压 = 3.3V	IO电压 = 1.8V
VCCIO_PMU	3.3V	不支持
VCCI01	3.3V	不支持
VCCI02		1.8V (默认) eMMC
VCCI03	3.3V (默认)	
VCCI04	3.3V (默认) WIFI:RTL8723BS	
VCCI05	3.3V (默认)	
VCCI06	3.3V (默认)	



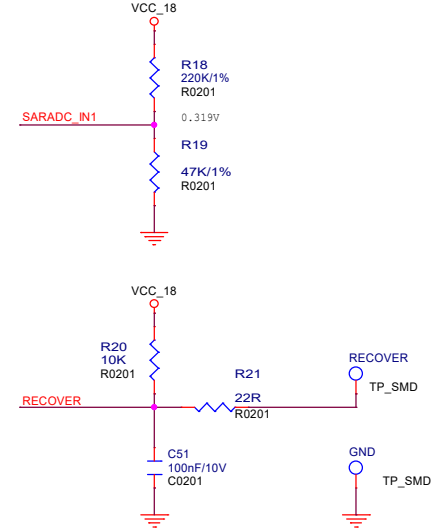
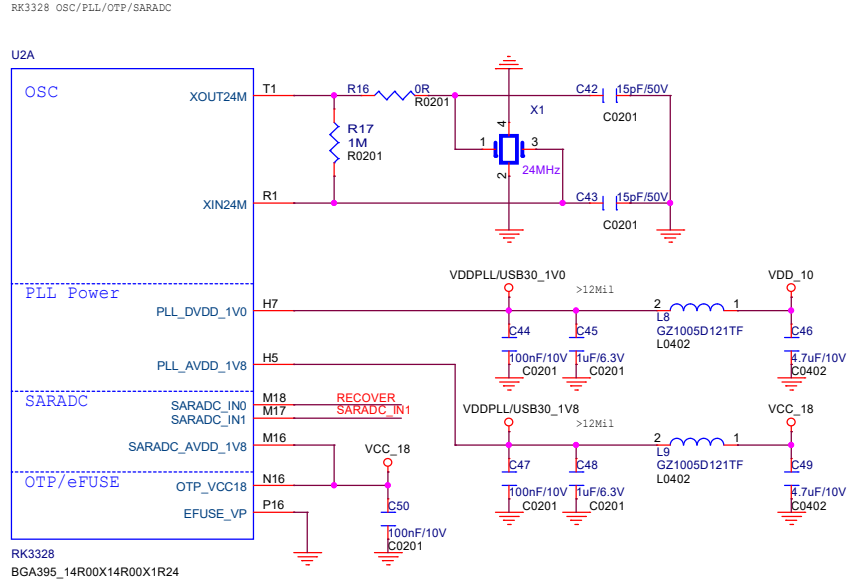
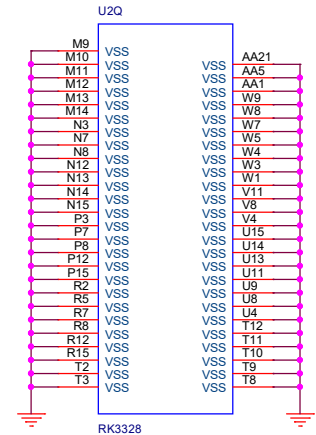
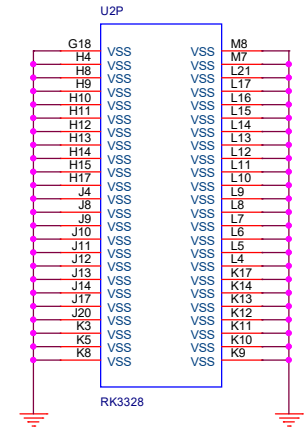
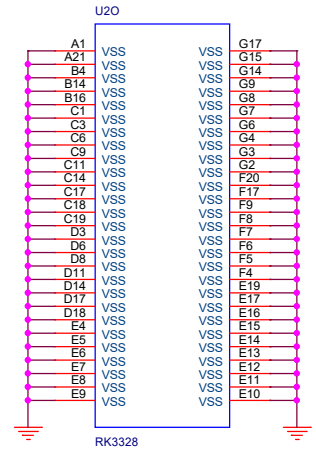
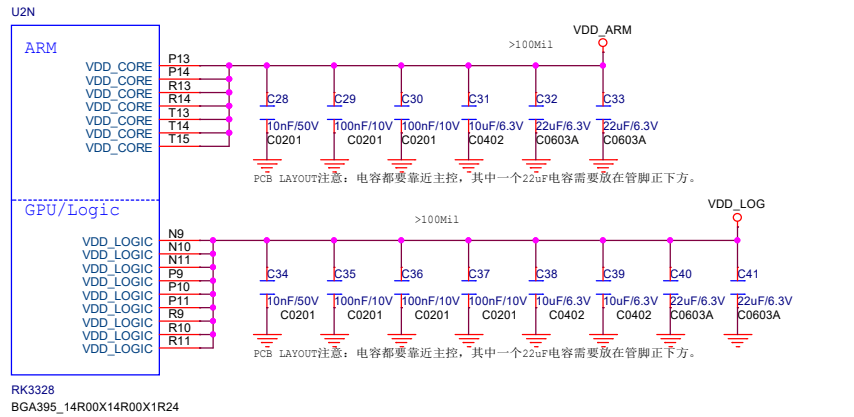
- 1: 如WIFI/BT需要32.768KHz时钟, 默认由CPU提供32.769KHz时钟, 默认不贴。
- 2: 如果修改了PLL分频, 造成无法分出32.768KHz时钟, 那么这部分电路需要贴上。
- 3: WIFI/BT不用32.768KHz时钟, 这部分可以不贴。

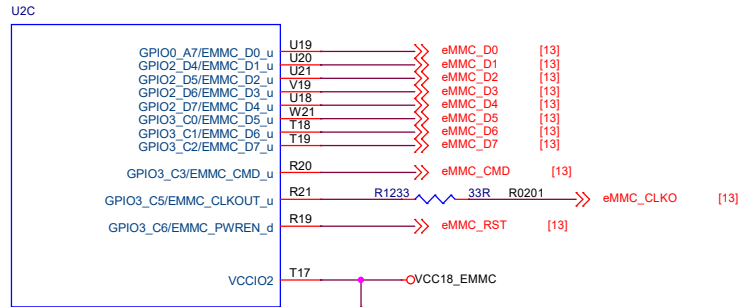
模组是否需要32.768KHz, 请见各WIFI/BT模组分页说明。



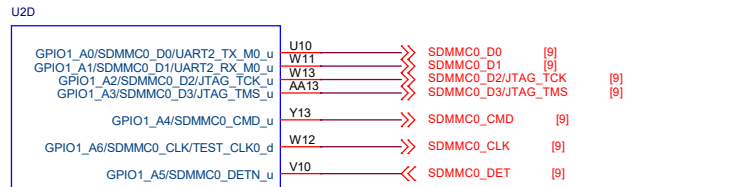
### VCC\_DDR

	DDR3	DDR3L	DDR4
VCC_DDR	1.527V	1.353V	1.2V
R725	100K 1%	47K 1%	51K 1%
R726	110K 1%	68K 1%	100K 1%

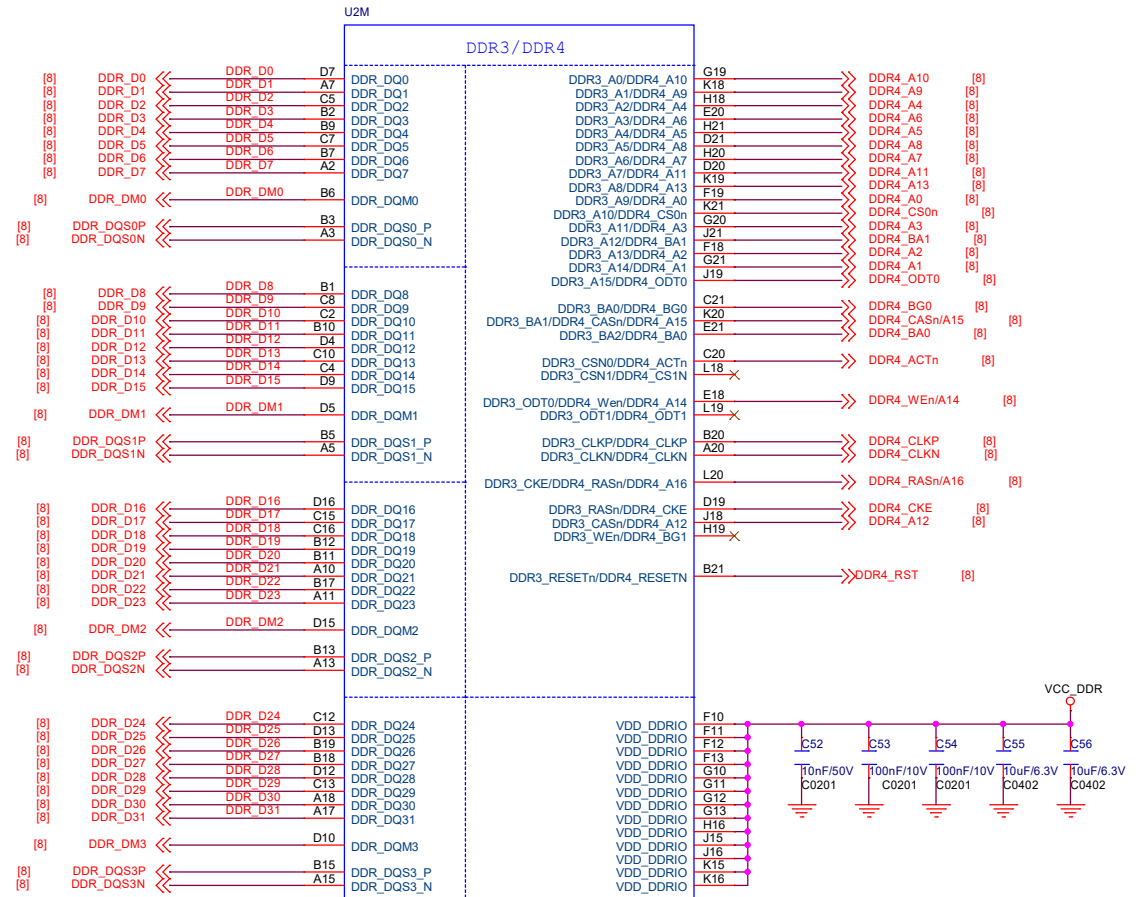




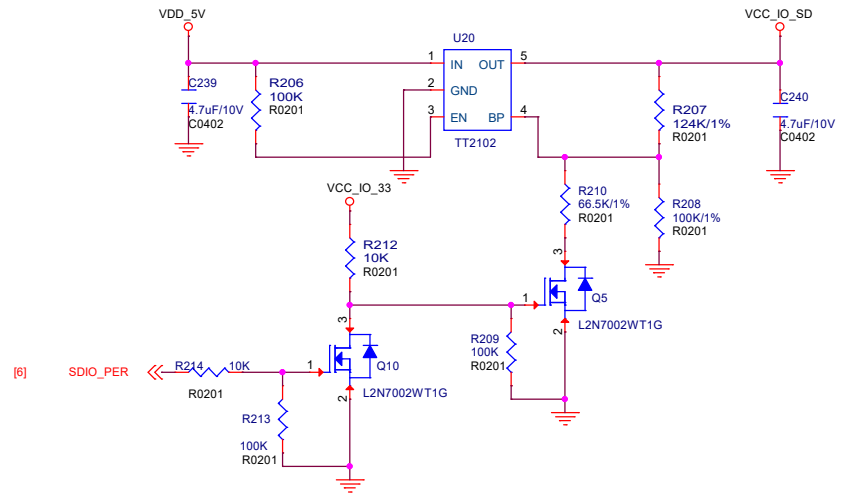
RK3328  
BGA395\_14R00X14R00X1R24

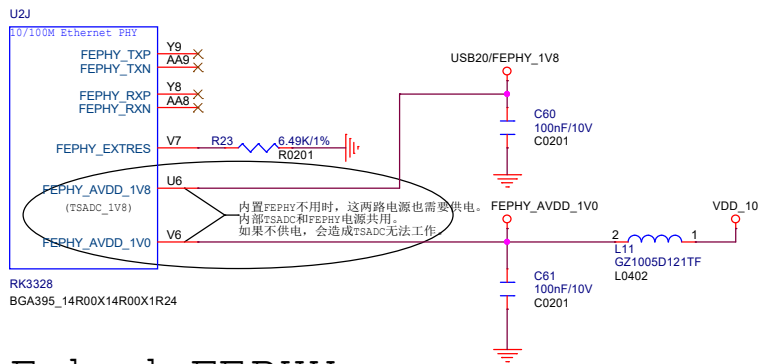
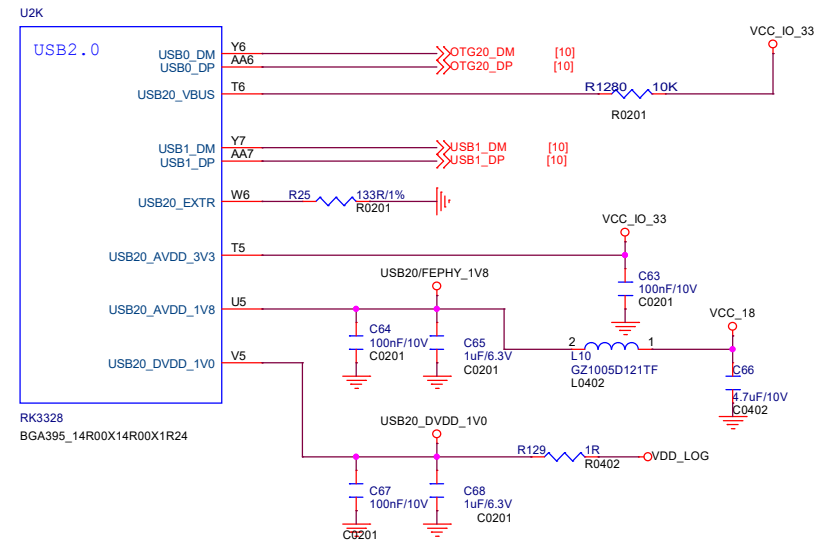
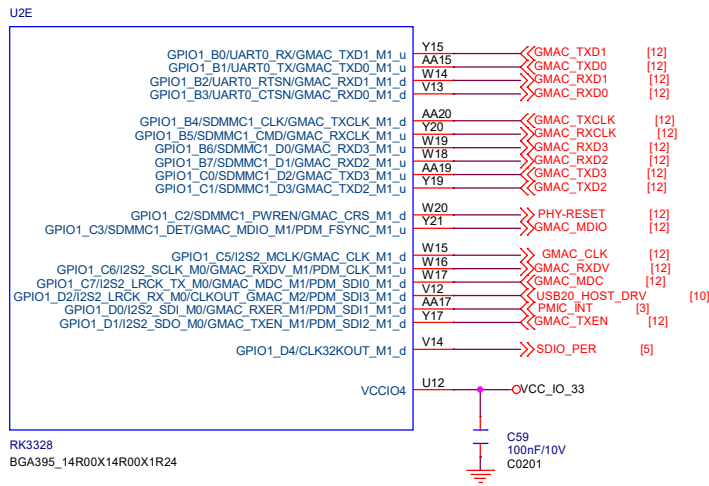


RK3328  
BGA395\_14R00X14R00X1R24

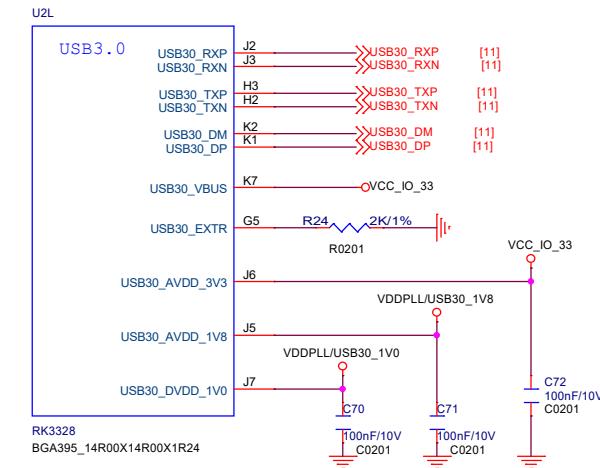
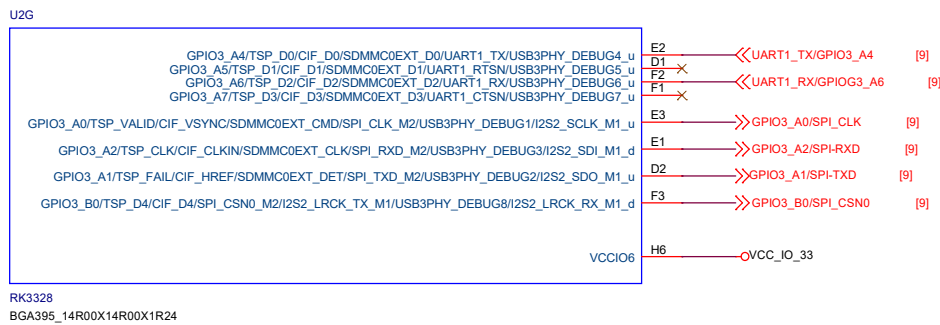


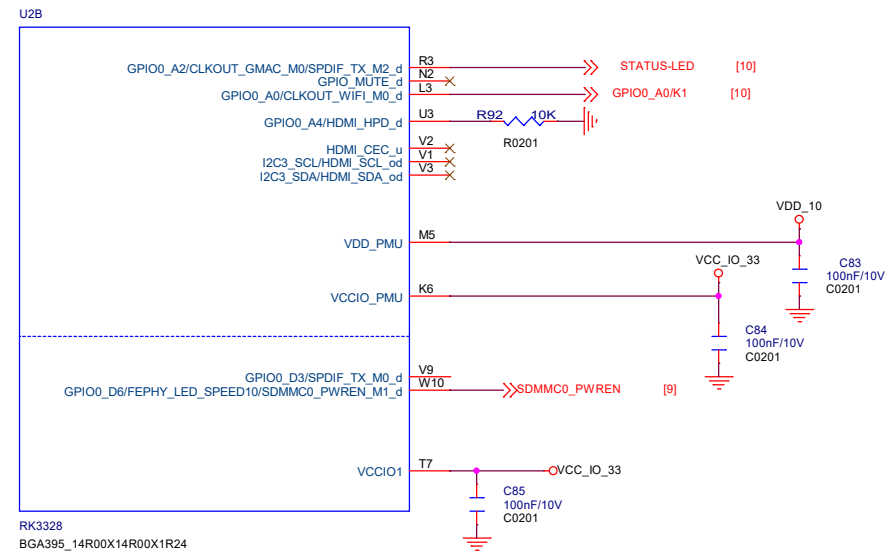
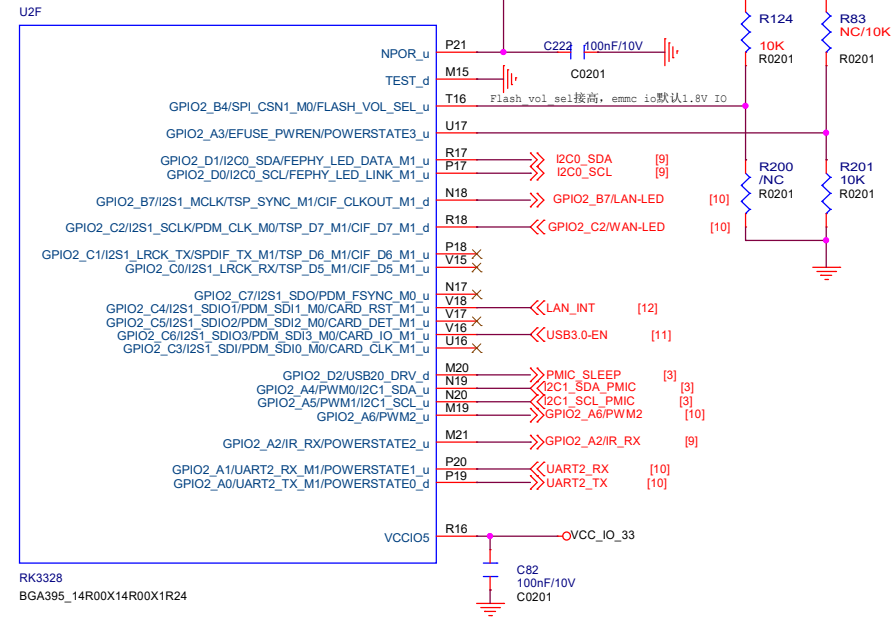
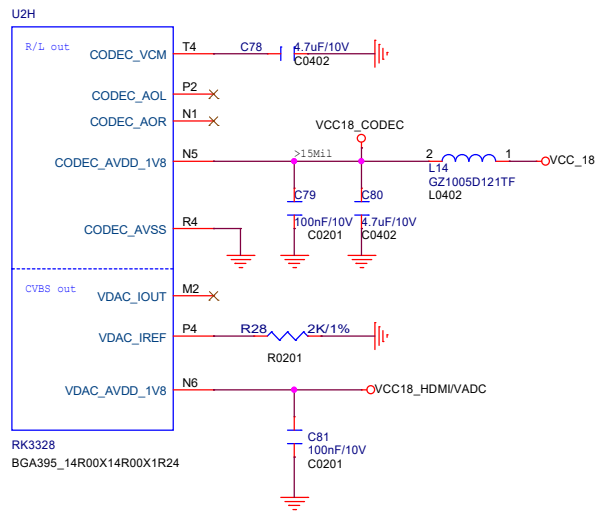
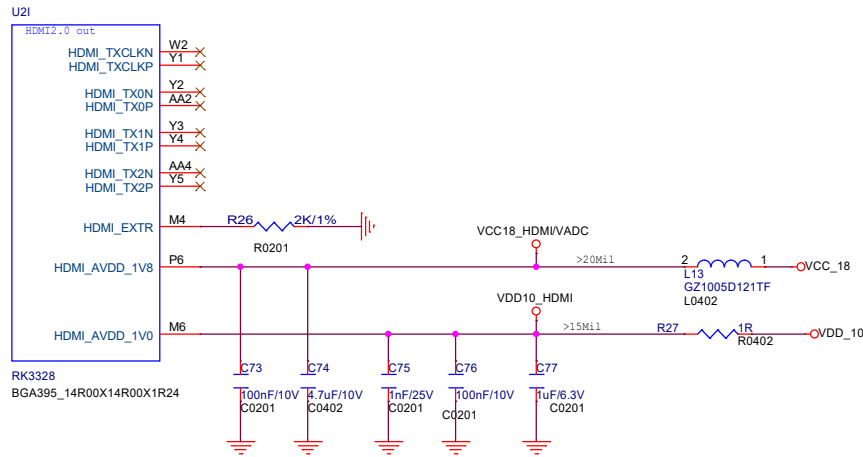
RK3328  
BGA395\_14R00X14R00X1R24

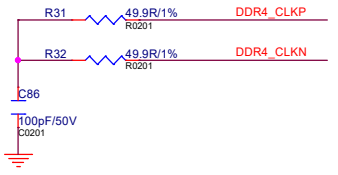
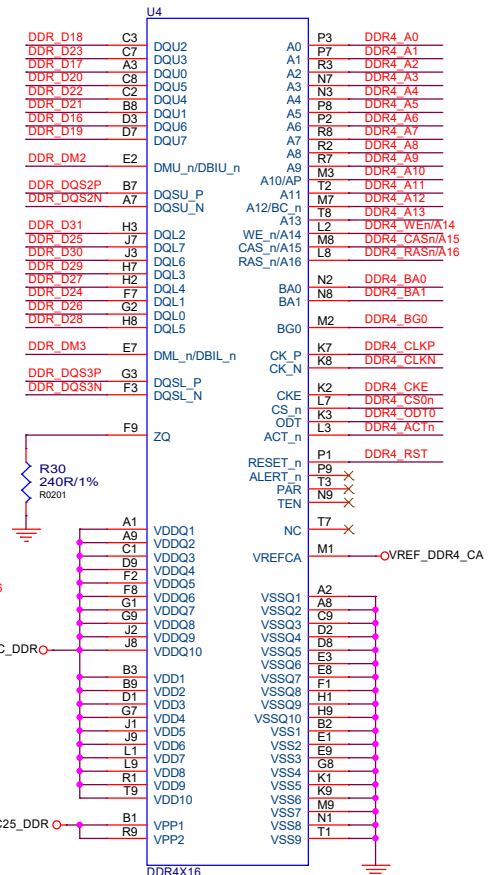
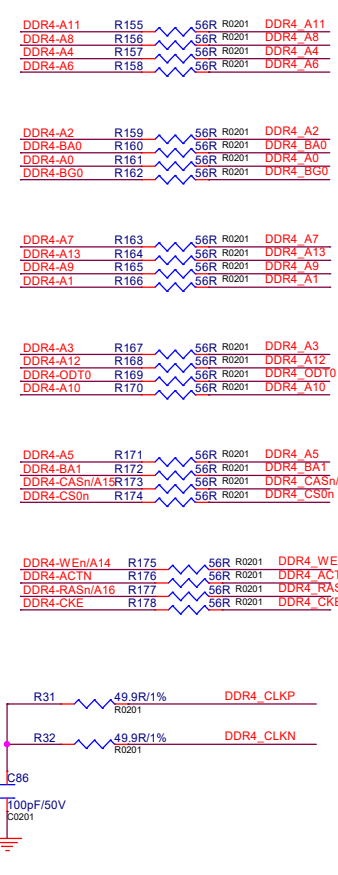
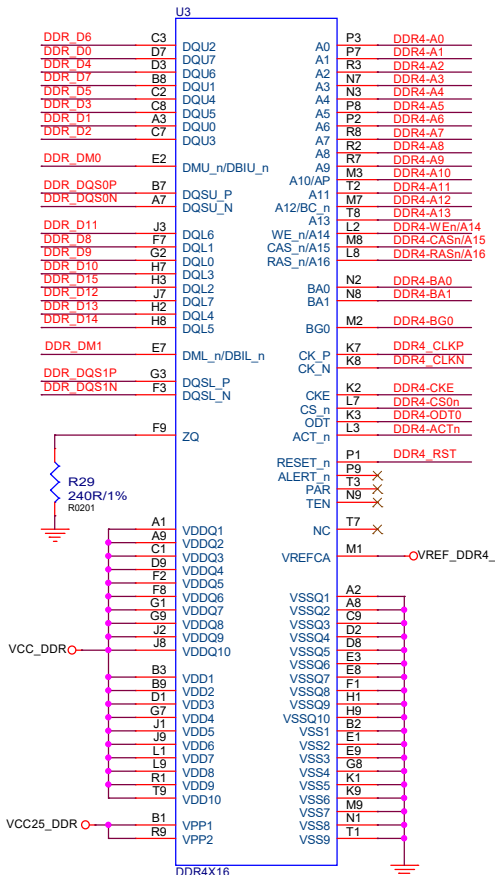
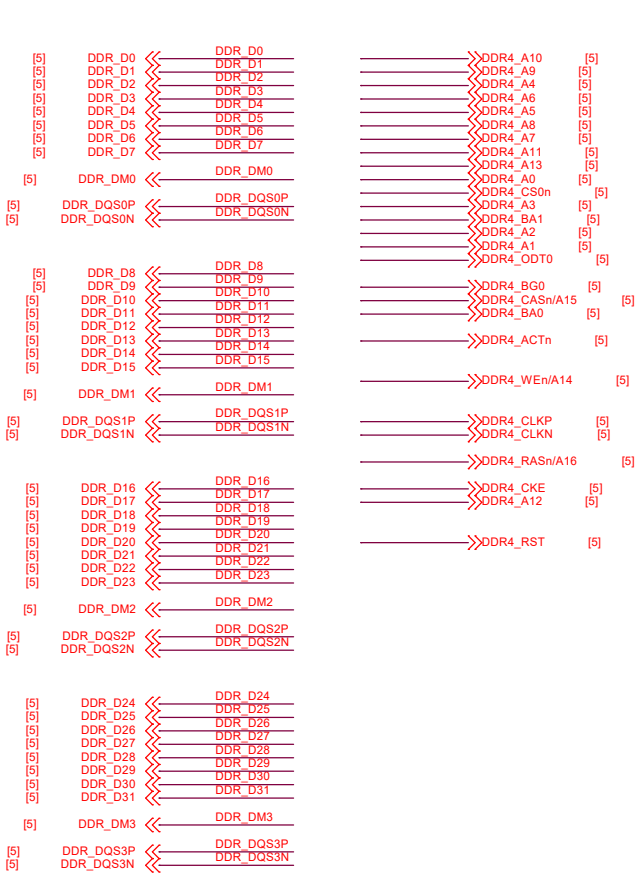




# Embed FEPHY

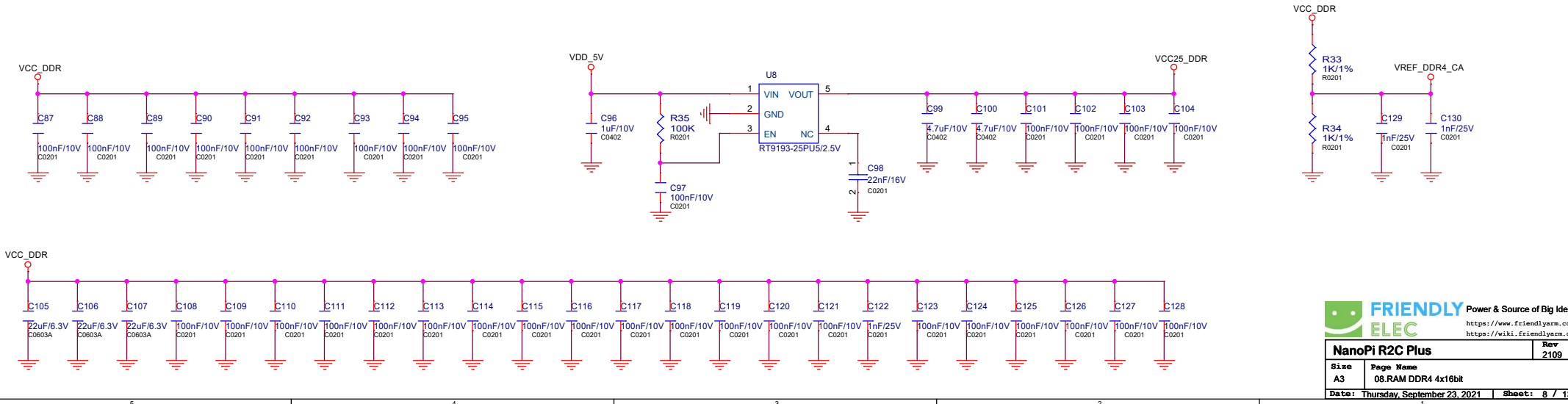






### 2X16bit DDR4

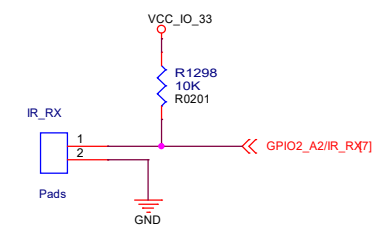
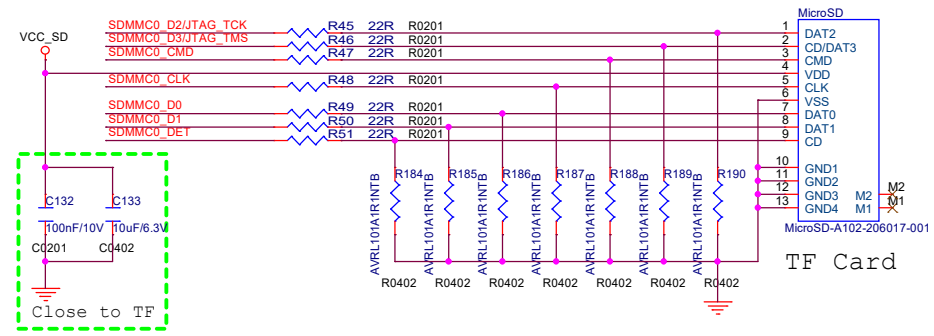
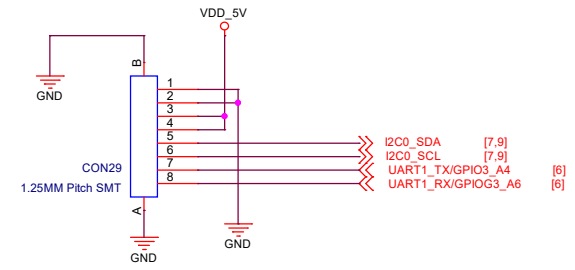
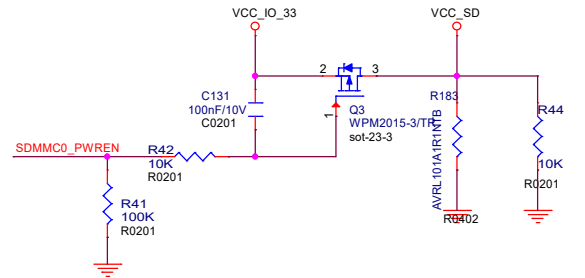
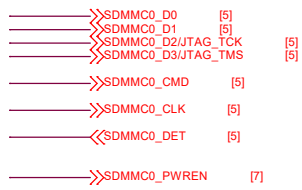
Note:  
DDR4 Speed > =2133Mb/s  
4 layer board



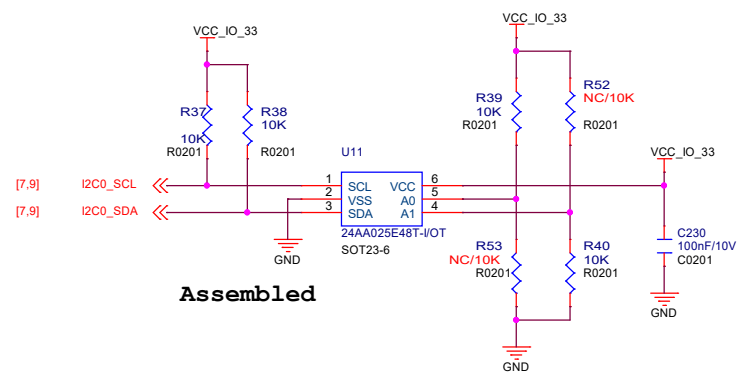
**FRIENDLY ELEC** Power & Source of Big Ideas  
<https://www.friendlyarm.com/>  
<https://wiki.friendlyarm.com/>

<b>NanoPi R2C Plus</b>		Rev 2109
Size	Page Name	
A3	08 RAM DDR4 4x16bit	
Date:	Thursday, September 23, 2021	Sheet: 8 / 13

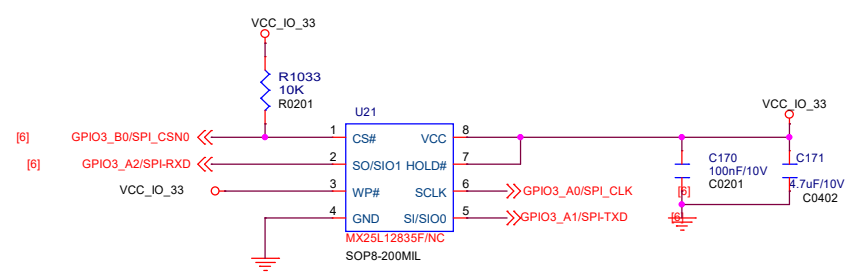




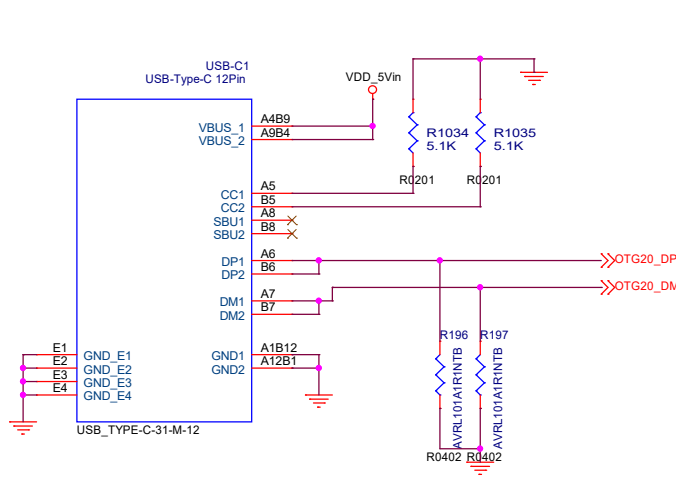
### EEPROM with MAC Address



Assembled

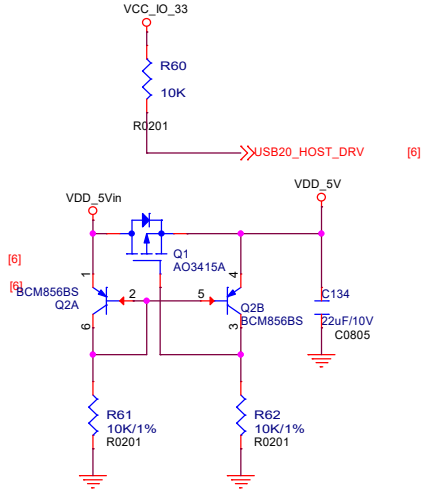


# MicroUSB:PWR and Slave

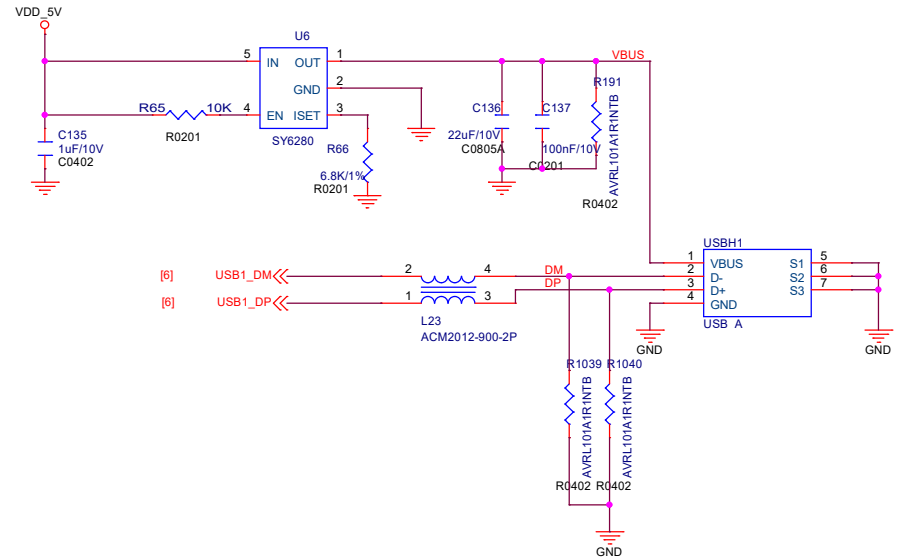


**不得删除!**  
**不得随意更换型号!**  
**IF TVS UNMOUNTED,**  
**ESD OR SURGE SHOULD BE**  
**DAMAGE THE PMIC!!!**  
如果采用5v适配器, 那个器件必须贴。  
型号建议不更换, 要更换需相同的规格。

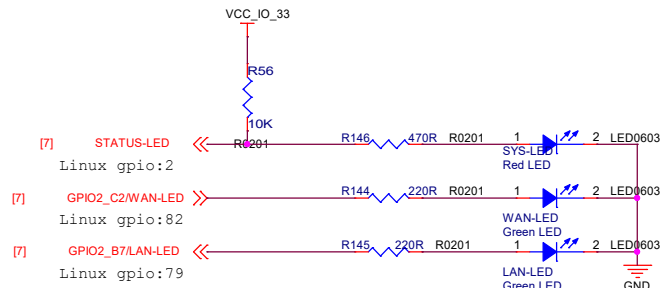
Operating Supply Voltage : 5.5V(5.25~6V)  
PeakPulse Current: >10A (tp=8/20uS)  
Surge Clamping Voltage: <6.5V  
**DO NOT DELETE IT!**



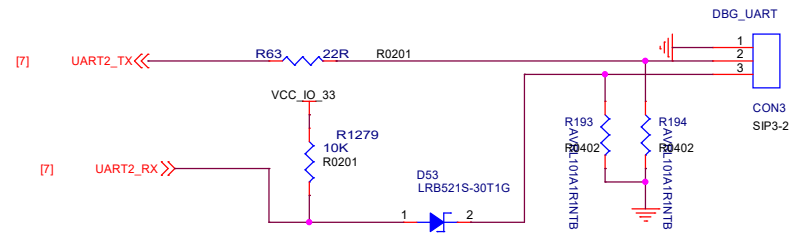
# USB Host



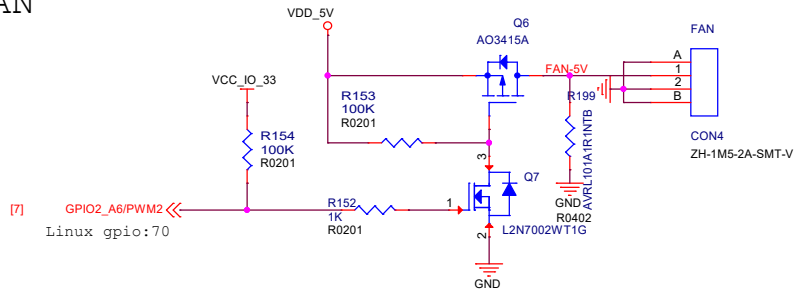
# LEDs



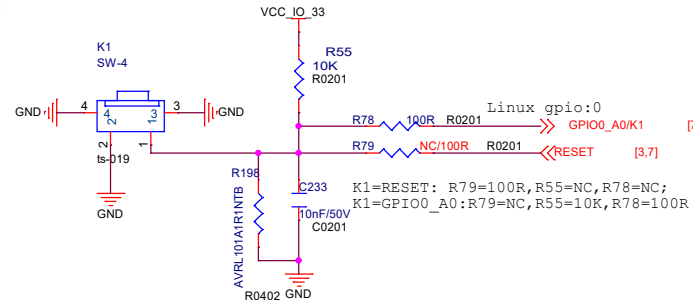
# Debug UART2



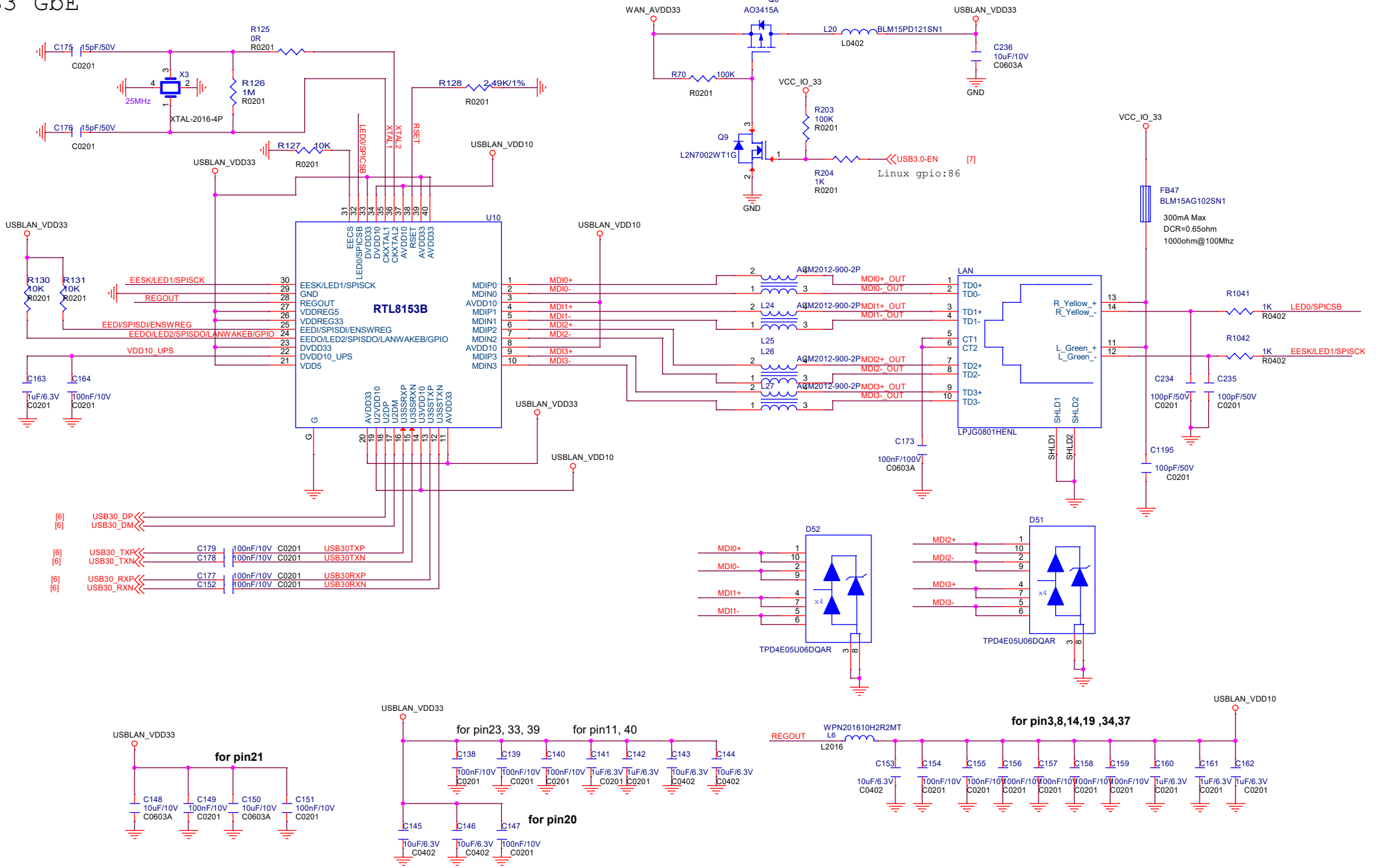
# FAN



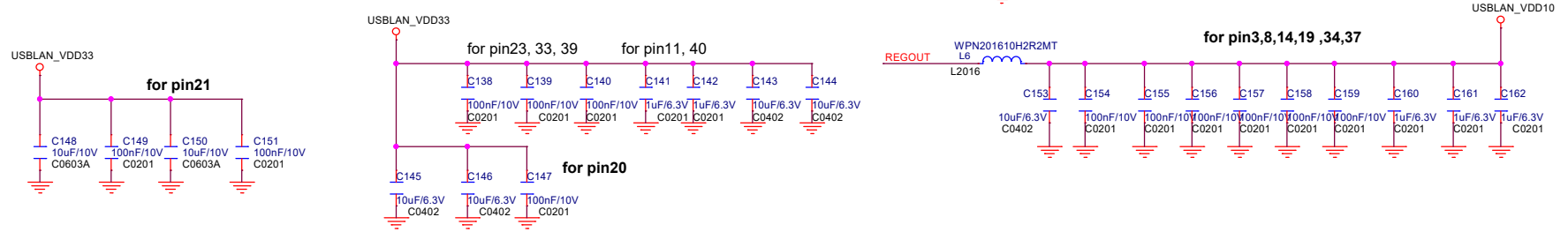
# KEY



# USB3 GbE



- [6] USB30\_DP
- [6] USB30\_DM
- [6] USB30\_TXP
- [6] USB30\_TXN
- [6] USB30\_RXP
- [6] USB30\_RXN



Native GbE

