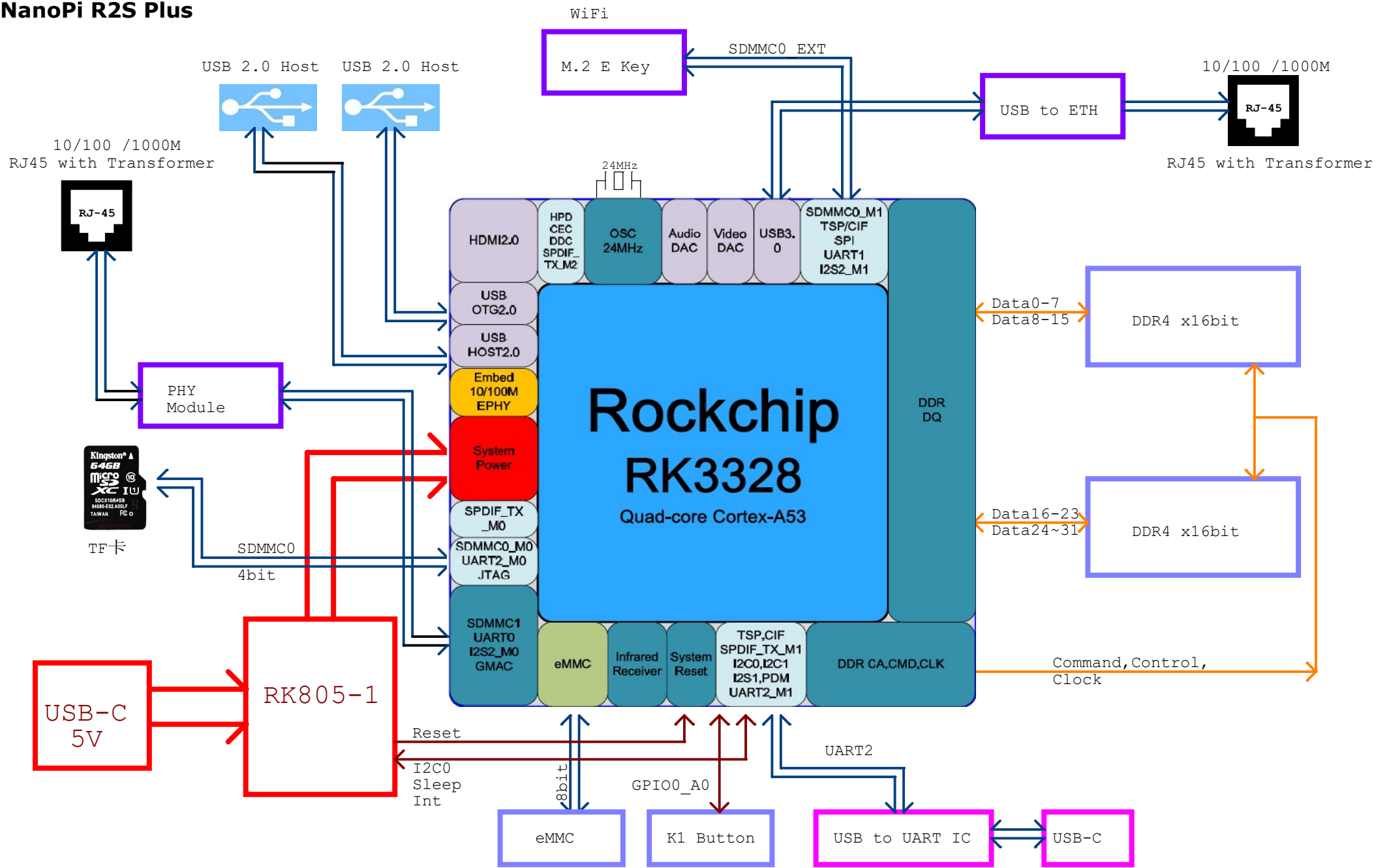
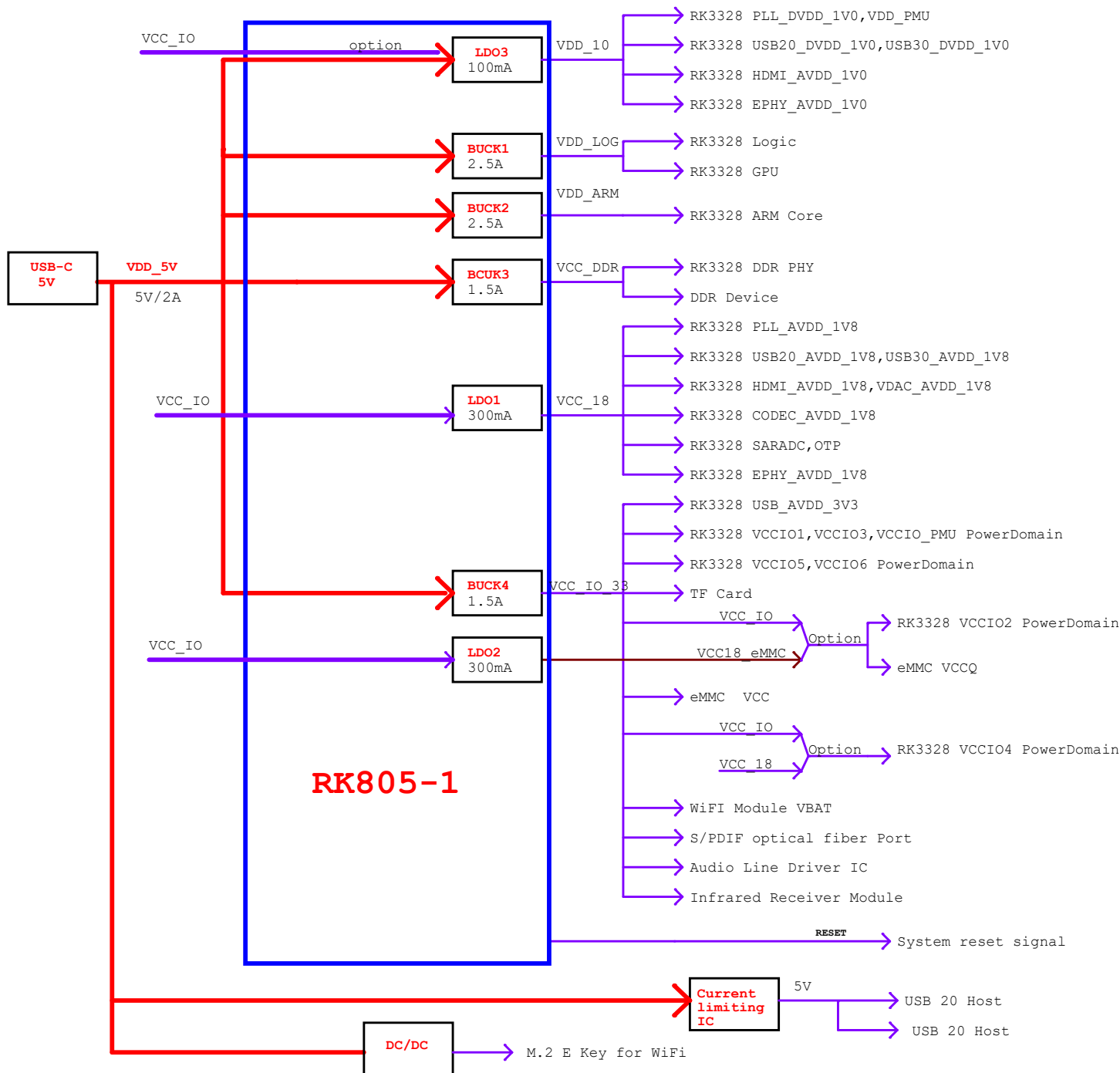


NanoPi R2S Plus

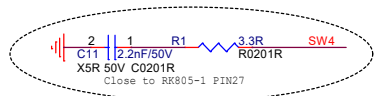




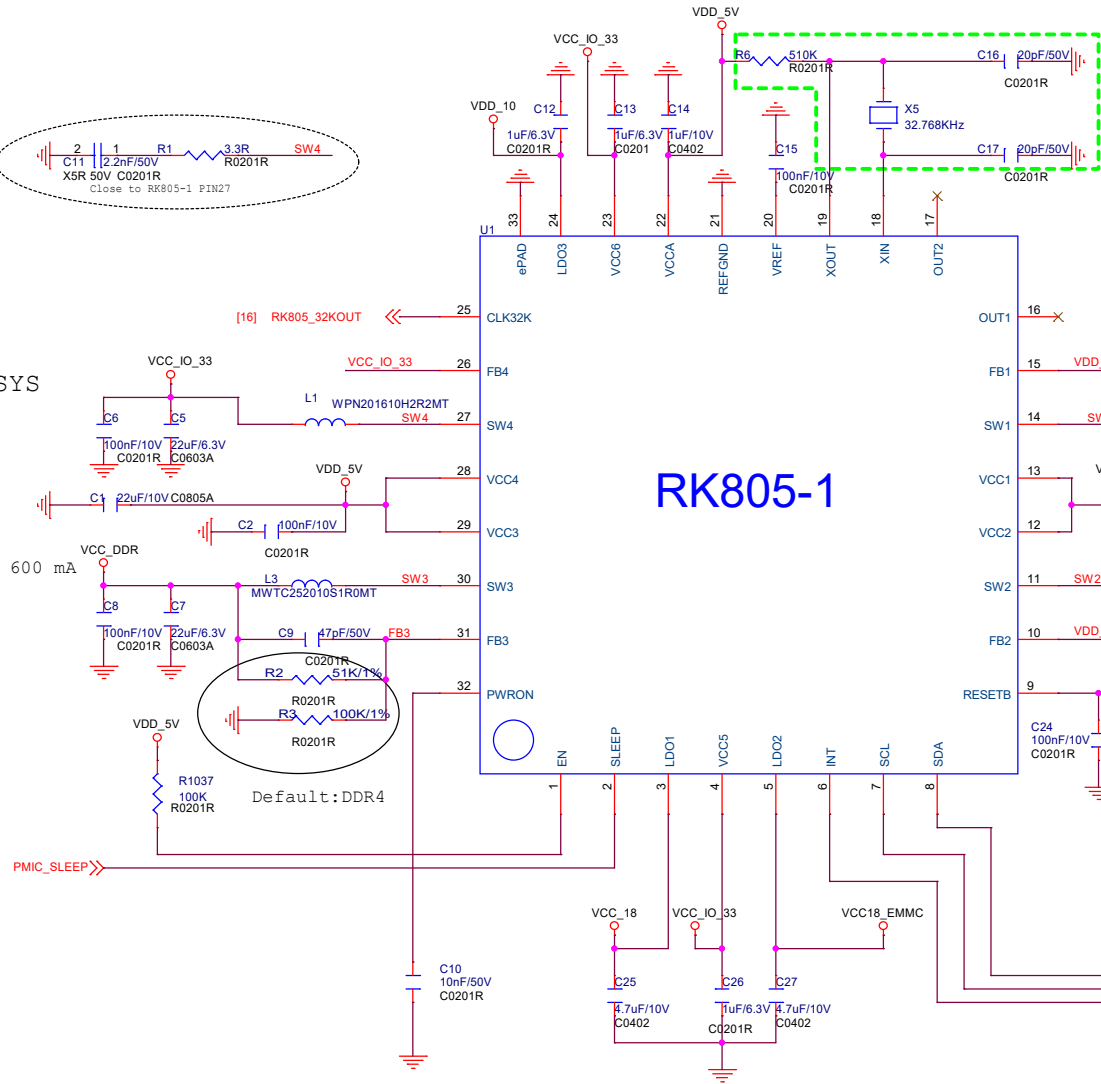
Power Timing

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
VCCIO1	3.3V	不支持
VCCIO2		1.8V (默认) eMMC
VCCIO3	3.3V (默认)	
VCCIO4	3.3V (默认)	
VCCIO5	3.3V (默认)	
VCCIO6	3.3V (默认)	



VCC_SYS



- 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。

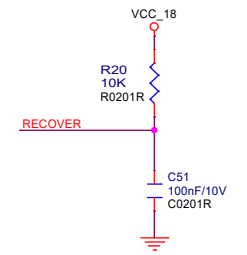
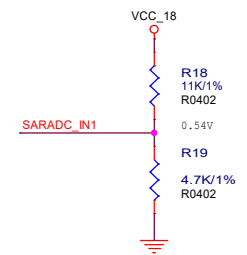
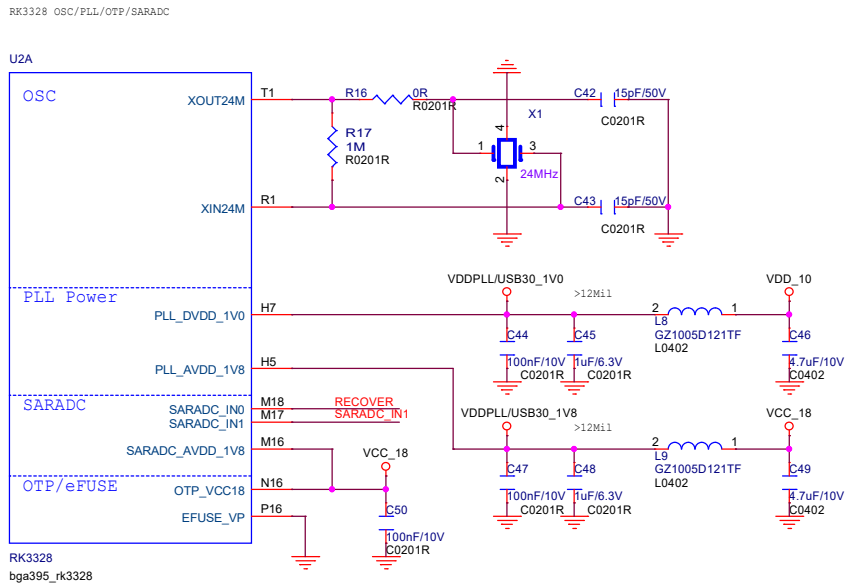
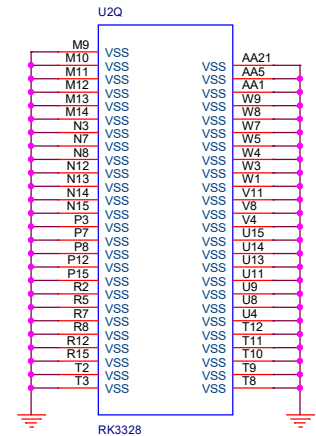
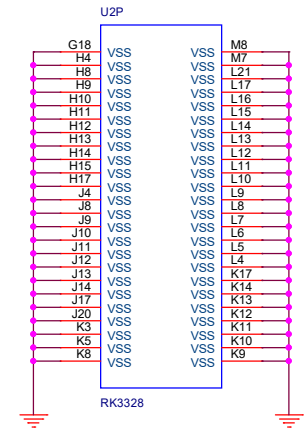
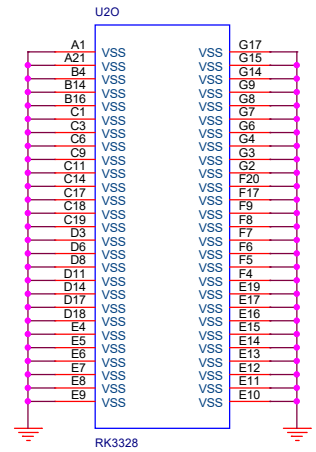
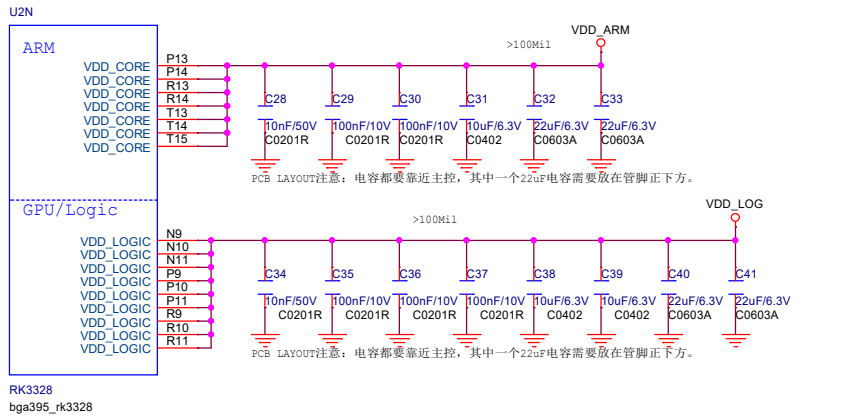
模组是否需要32.768KHz, 请见各WIFI/BT模组分页说明。

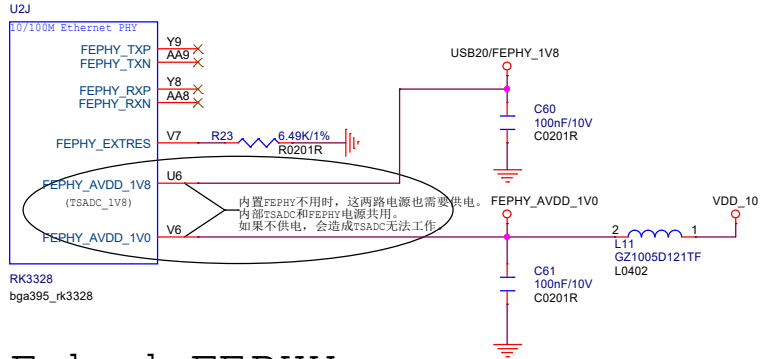
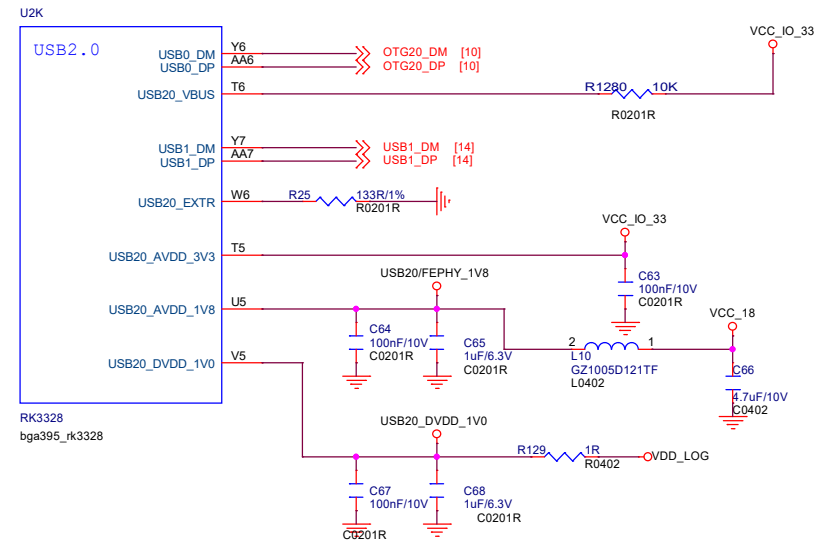
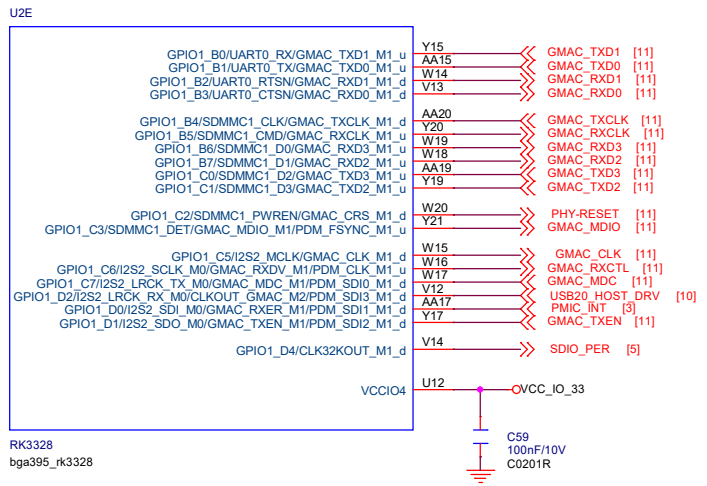
电源走线或铺铜末端反馈

电源走线或铺铜末端反馈

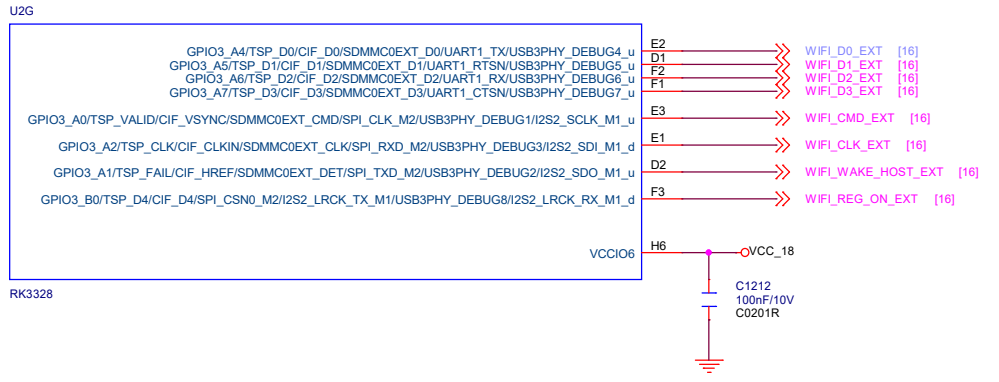
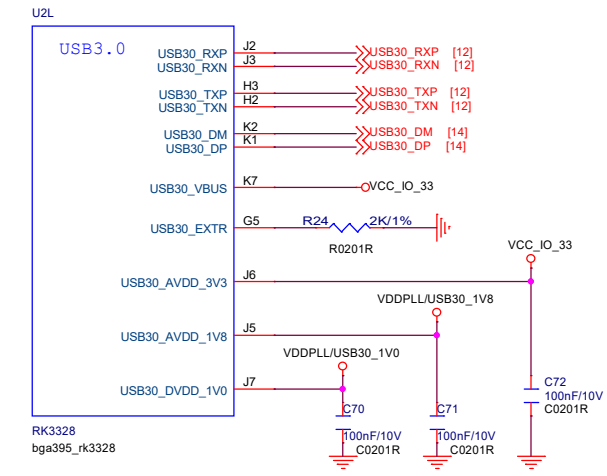
VCC_DDR

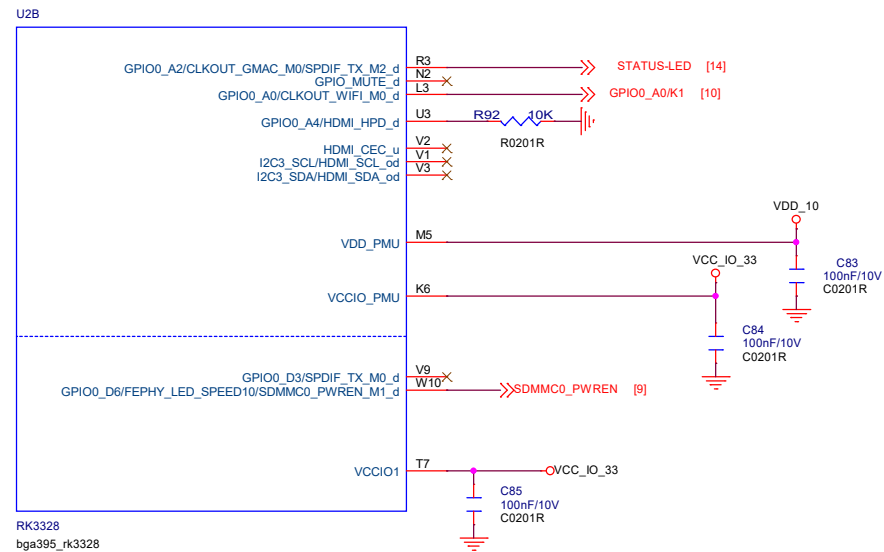
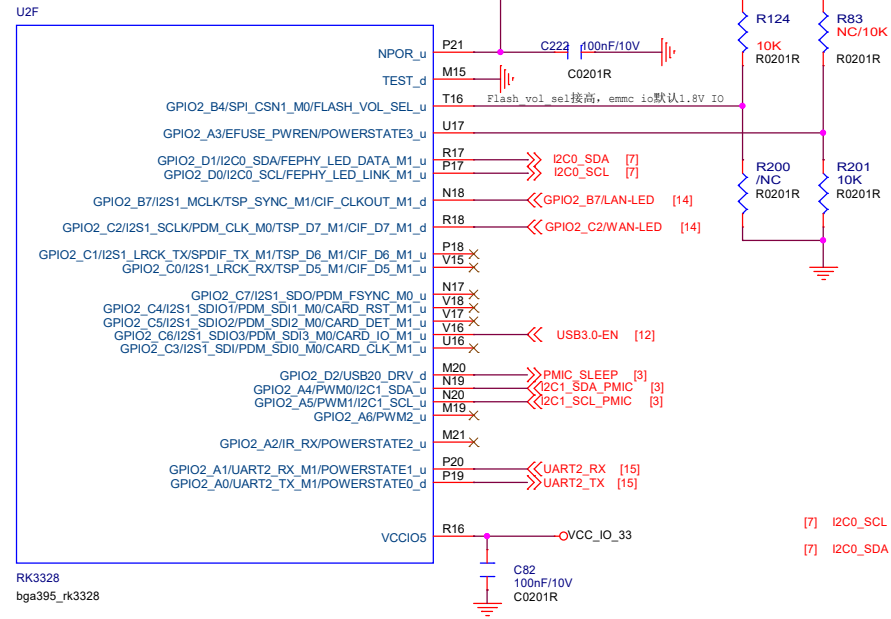
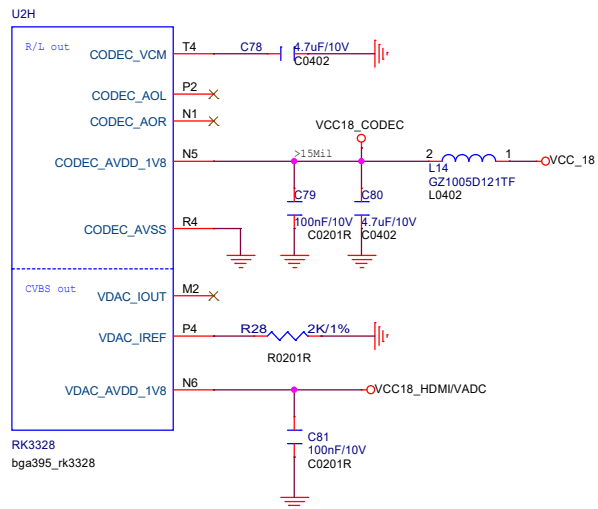
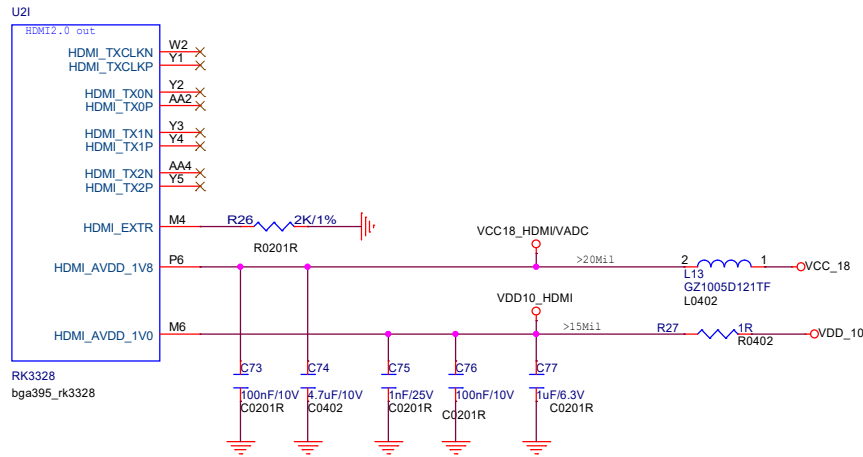
	DDR3	DDR3L	DDR4
VCC_DDR	1.527V	1.353V	1.2V
R725	100K 1%	47K 1%	51K 1%
R726	110K 1%	68K 1%	100K 1%

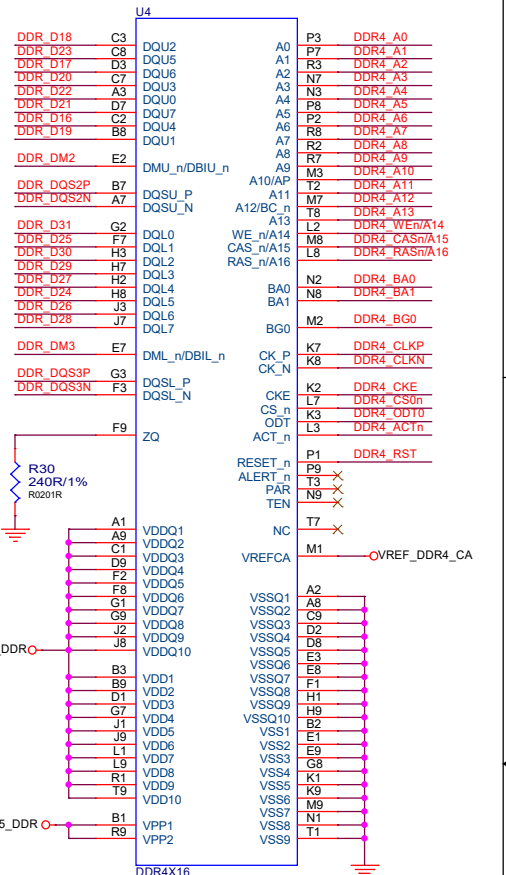
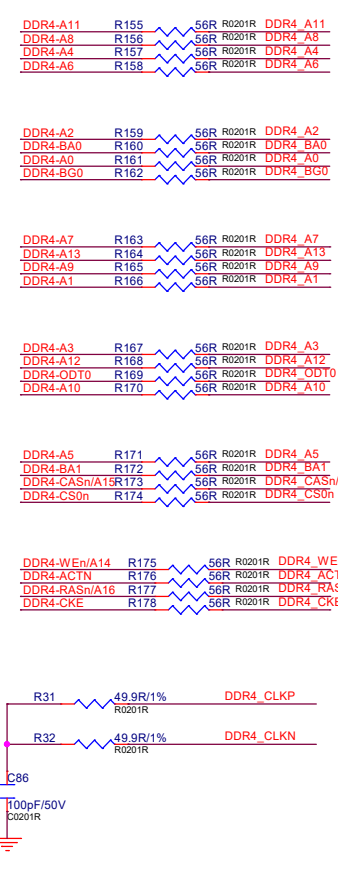
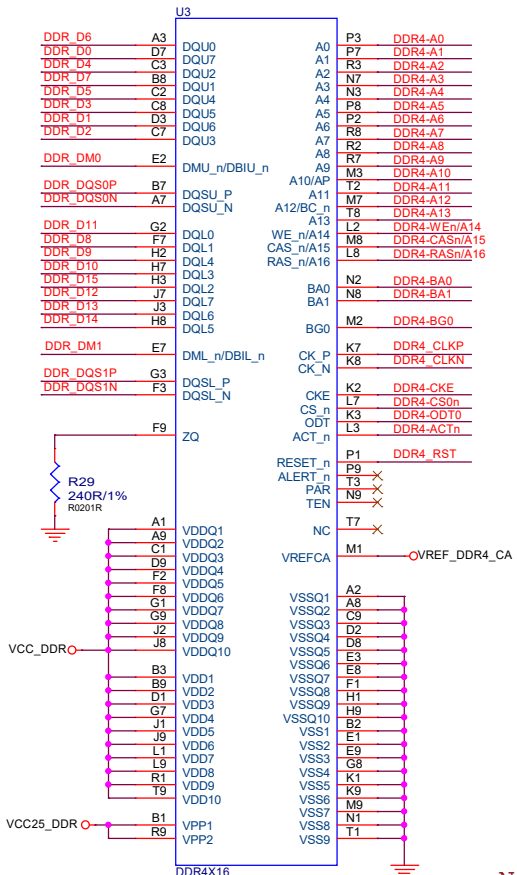
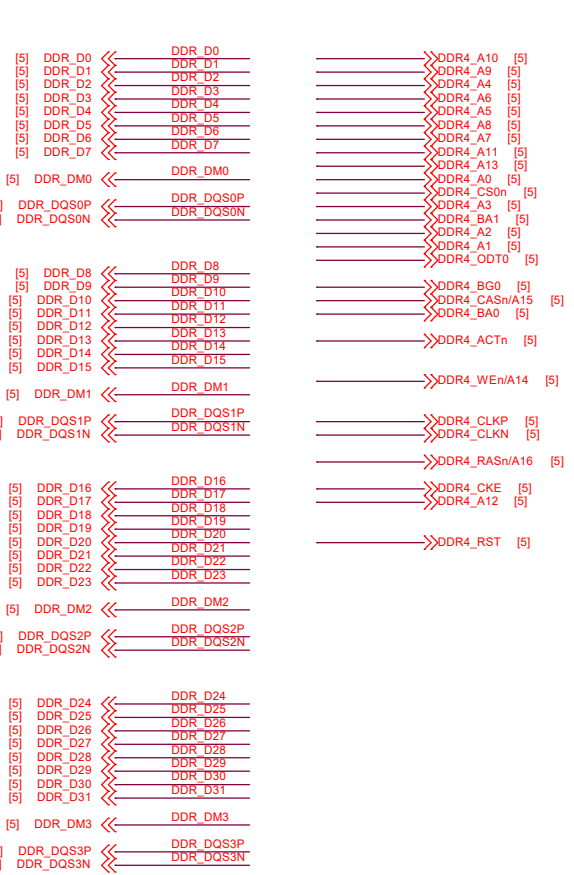




Embed FEPHY

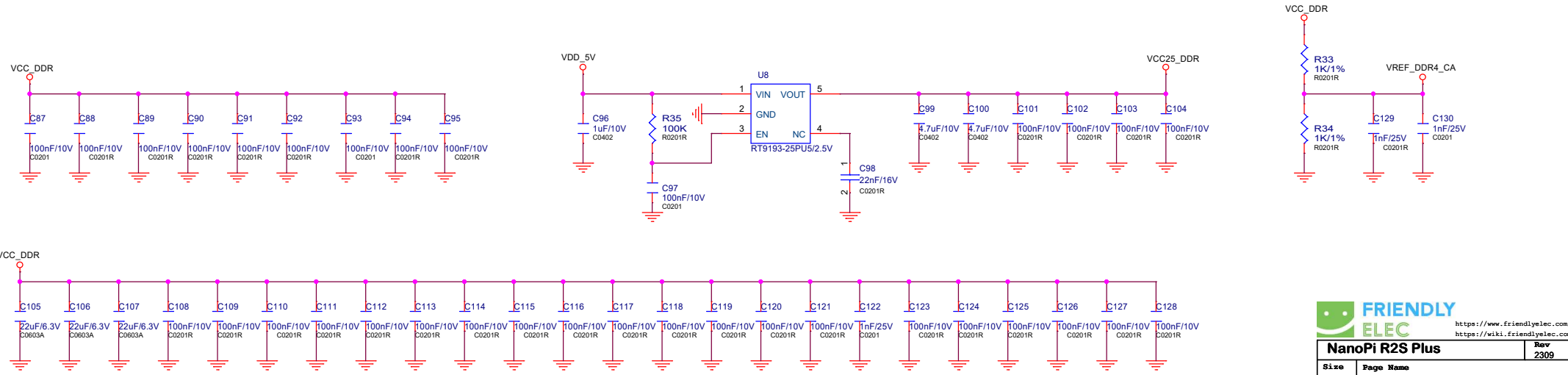




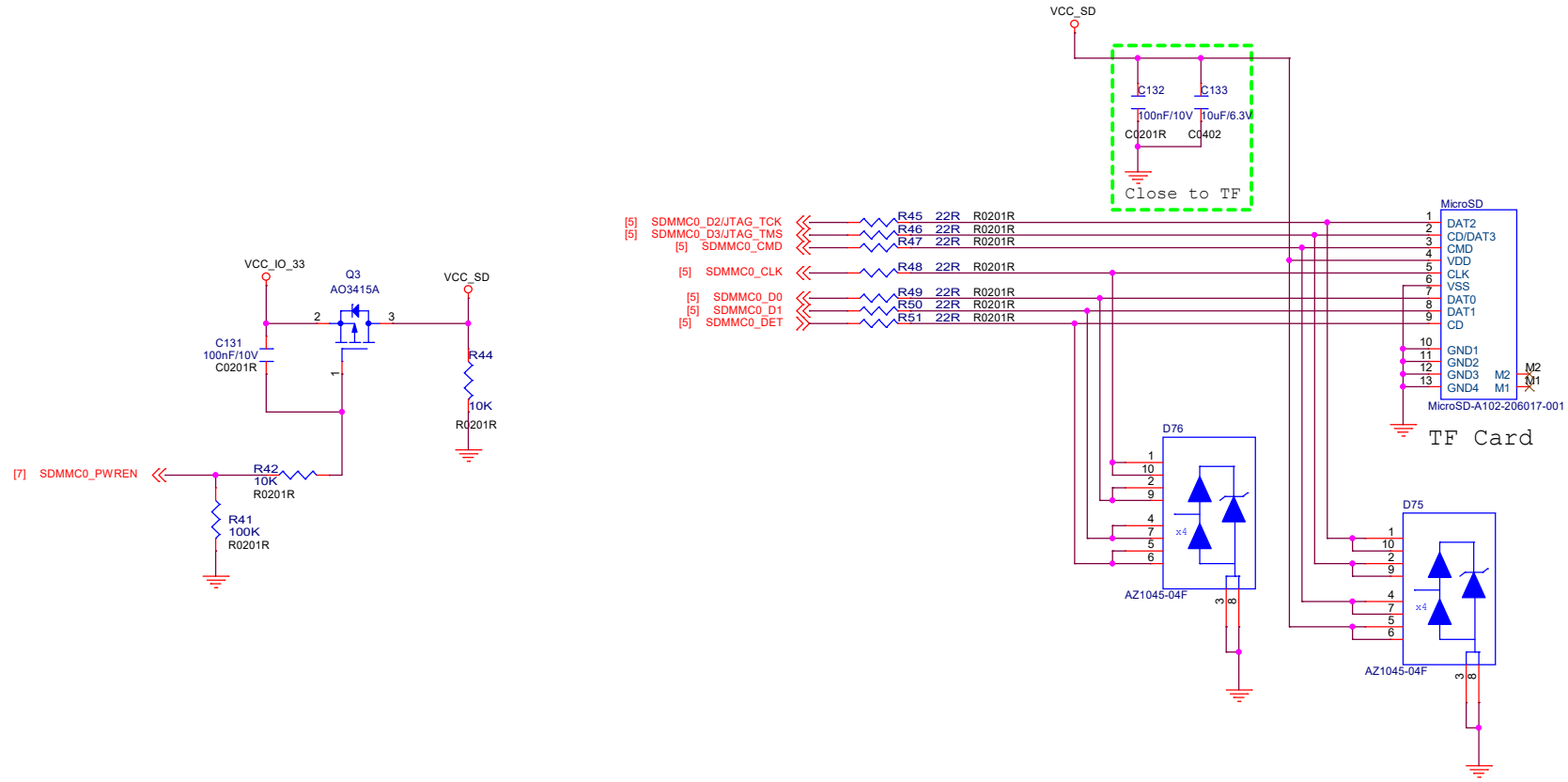


2X16bit DDR4

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



microSD



Power IN

VDD_5V

2

D1
AZ5825-01
SOD-882

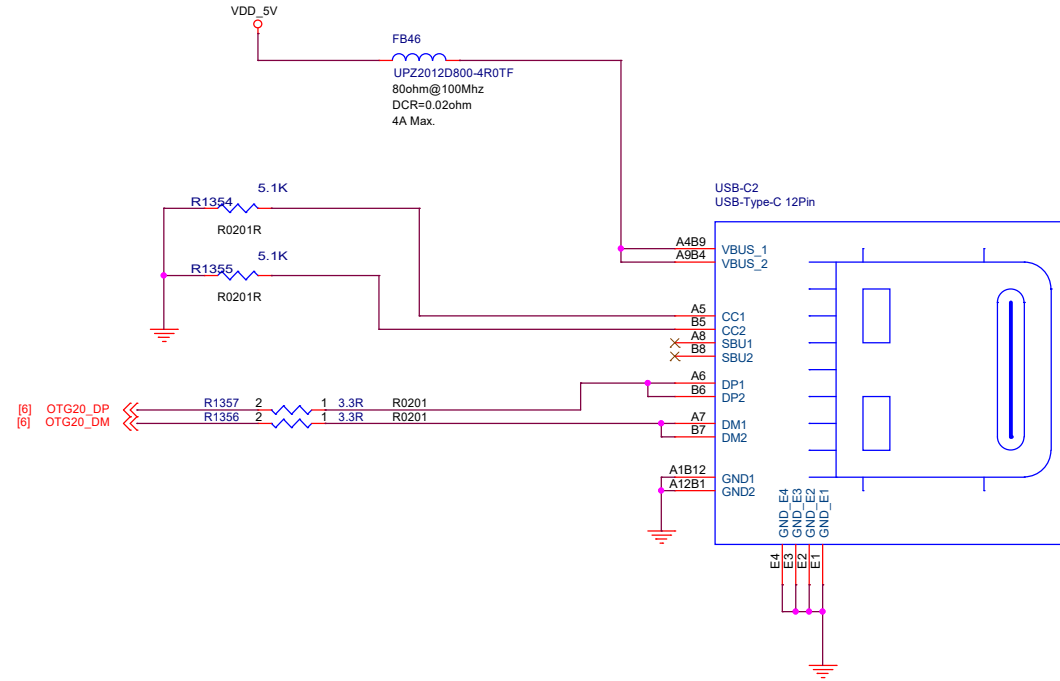
1

**不得删除！
不得随意更换型号！
IF TVS UNMOUNTED,
ESD OR SURGE SHOULD BE
DAMAGE THE PMIC!!!**

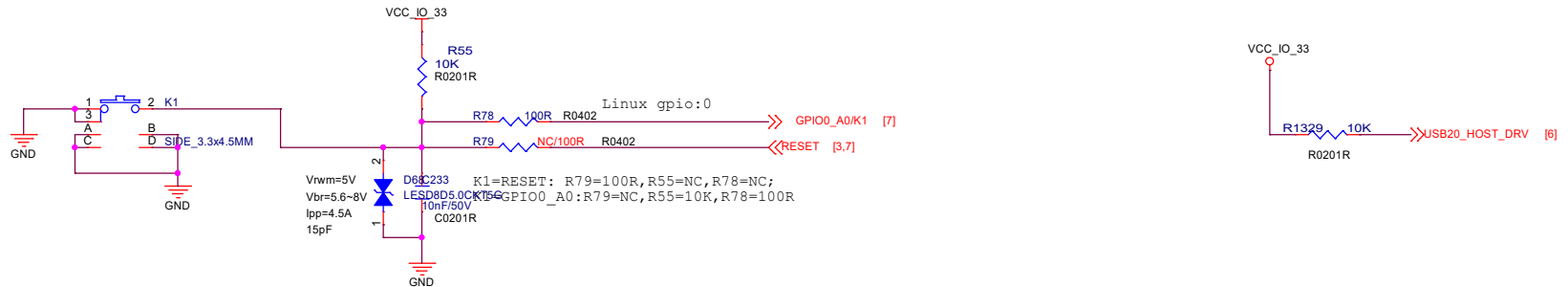
如果采用5V适配器，那这个器件必须贴。
型号建议不更换，要更换需相同的规格。

Operating Supply Voltage : 5.5V(5.25-6V)
PeakPulse Currents >10A (tp=8/20us)
Surge Clamping Voltage <6.5V

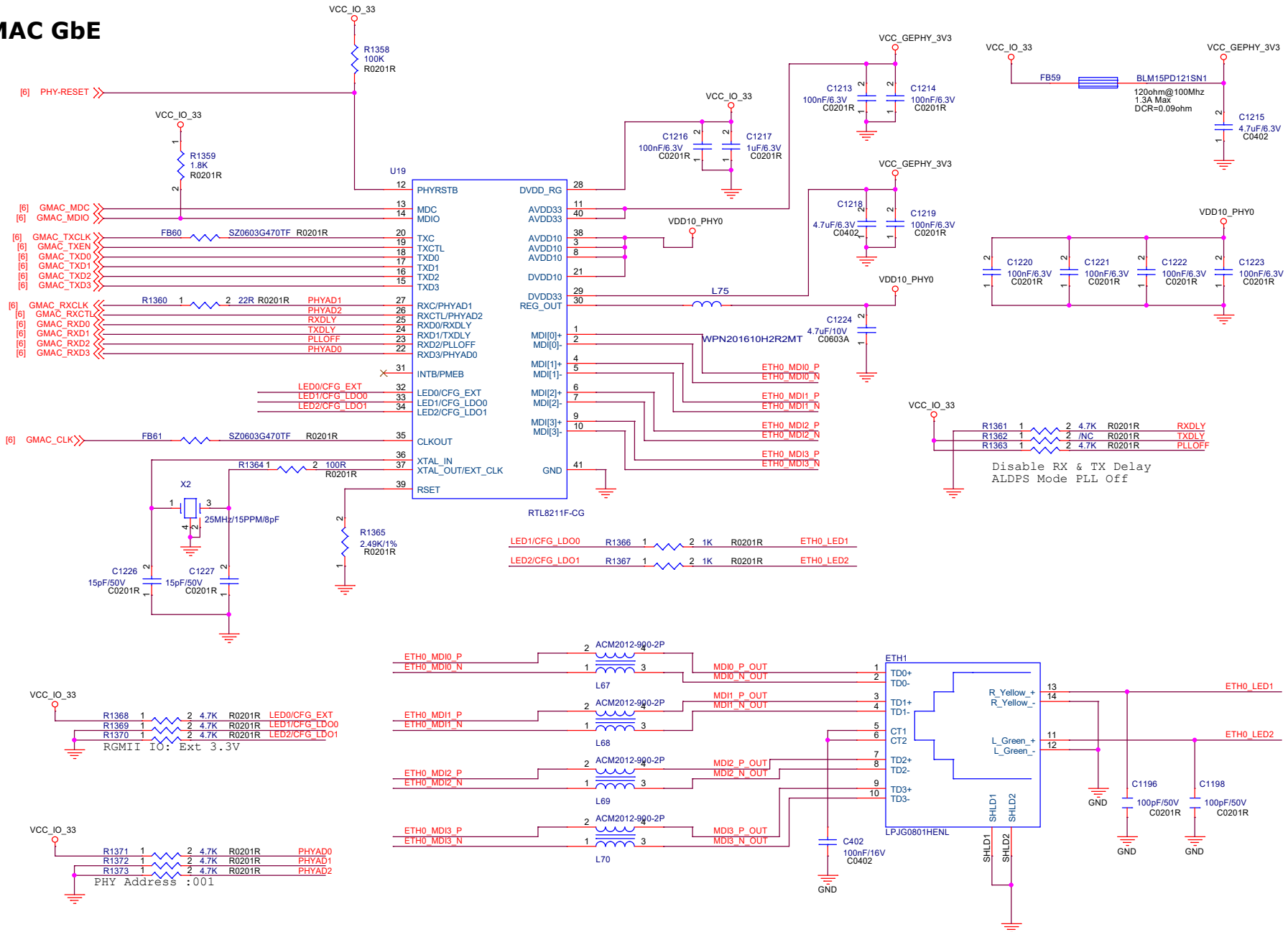
DO NOT DELETE IT!



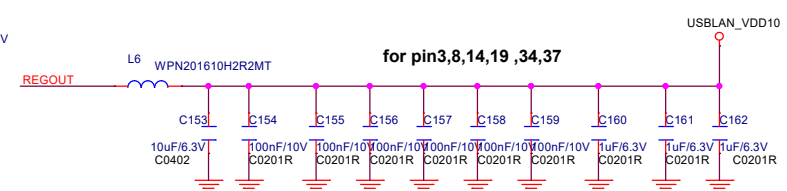
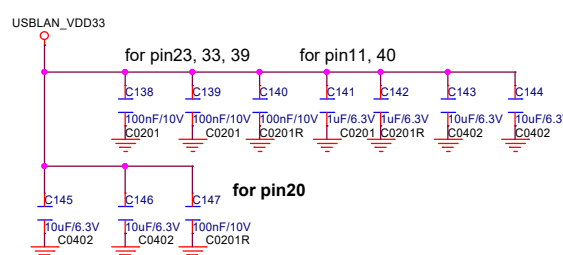
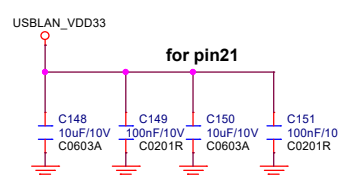
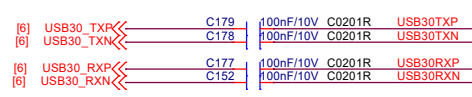
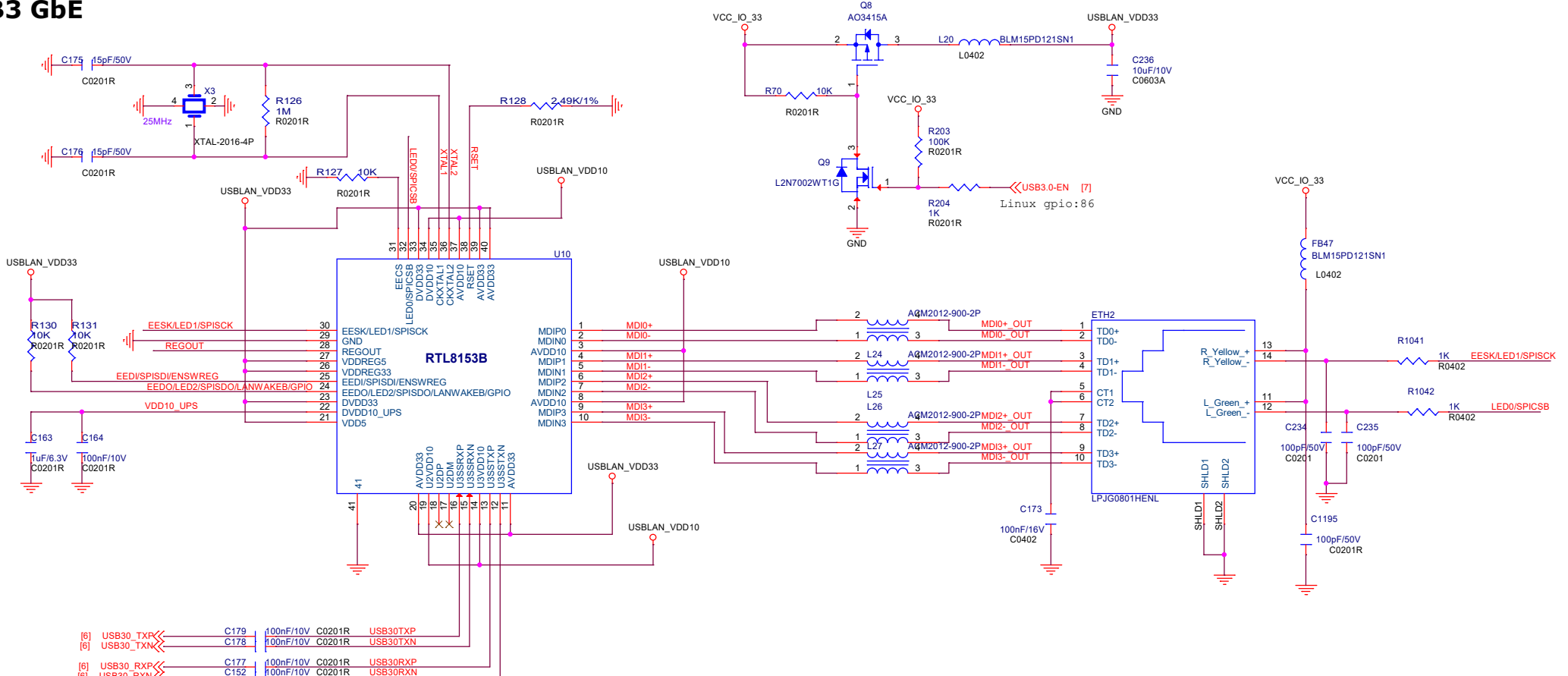
Button



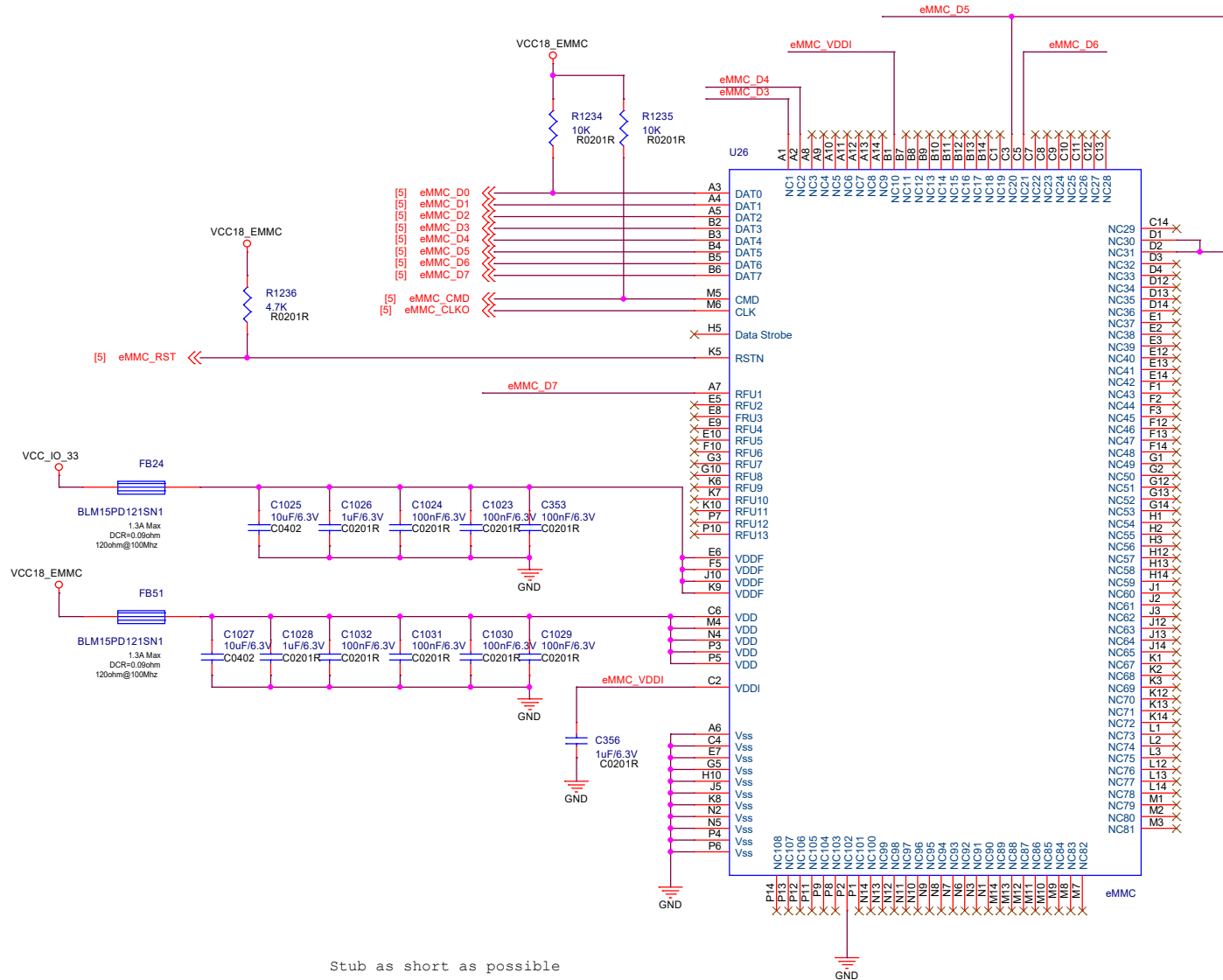
GMAC GbE



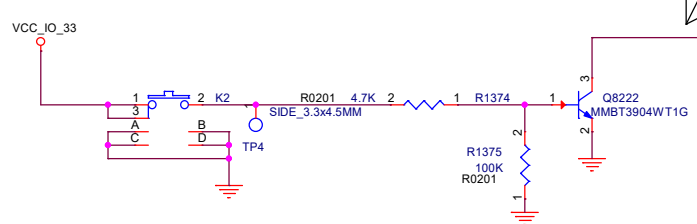
USB3 GbE



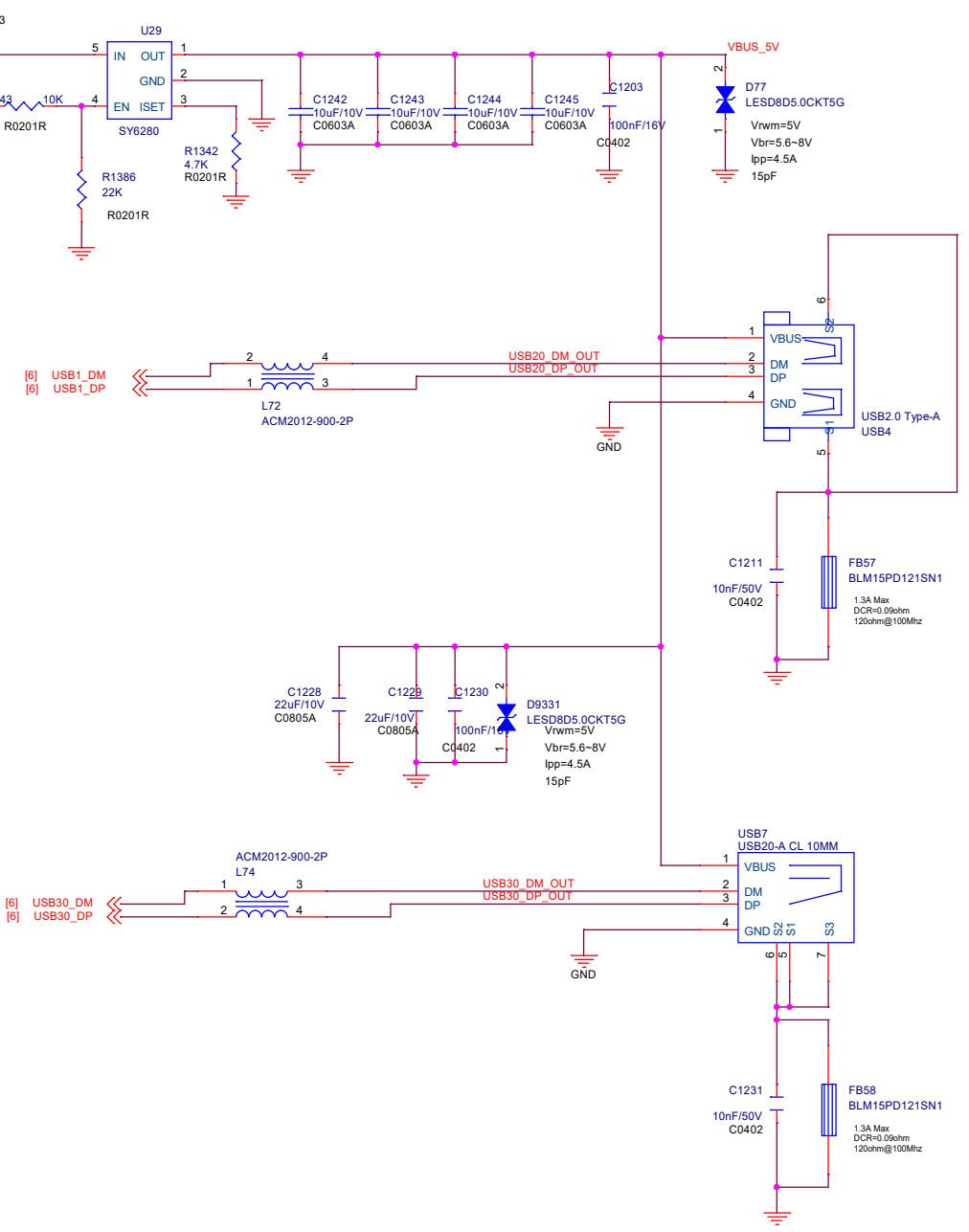
eMMC



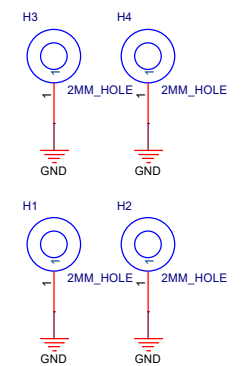
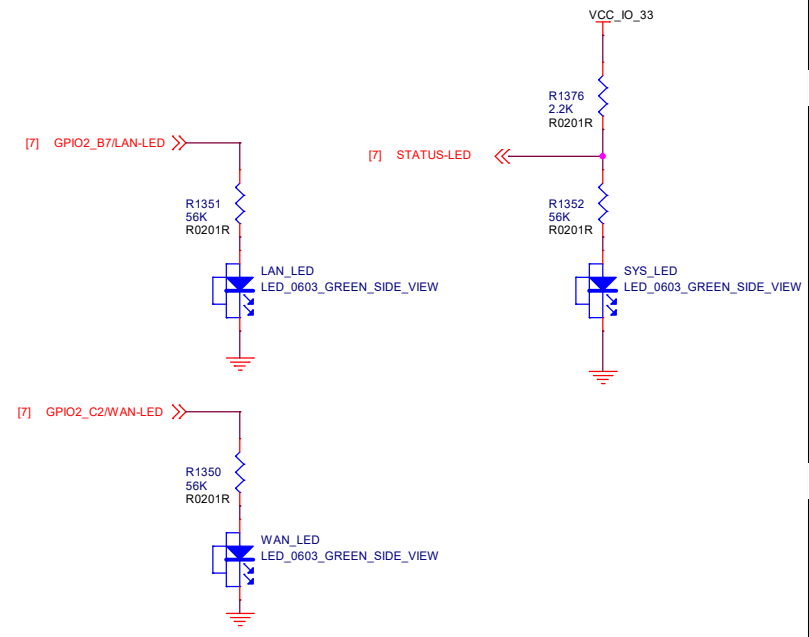
Stub as short as possible



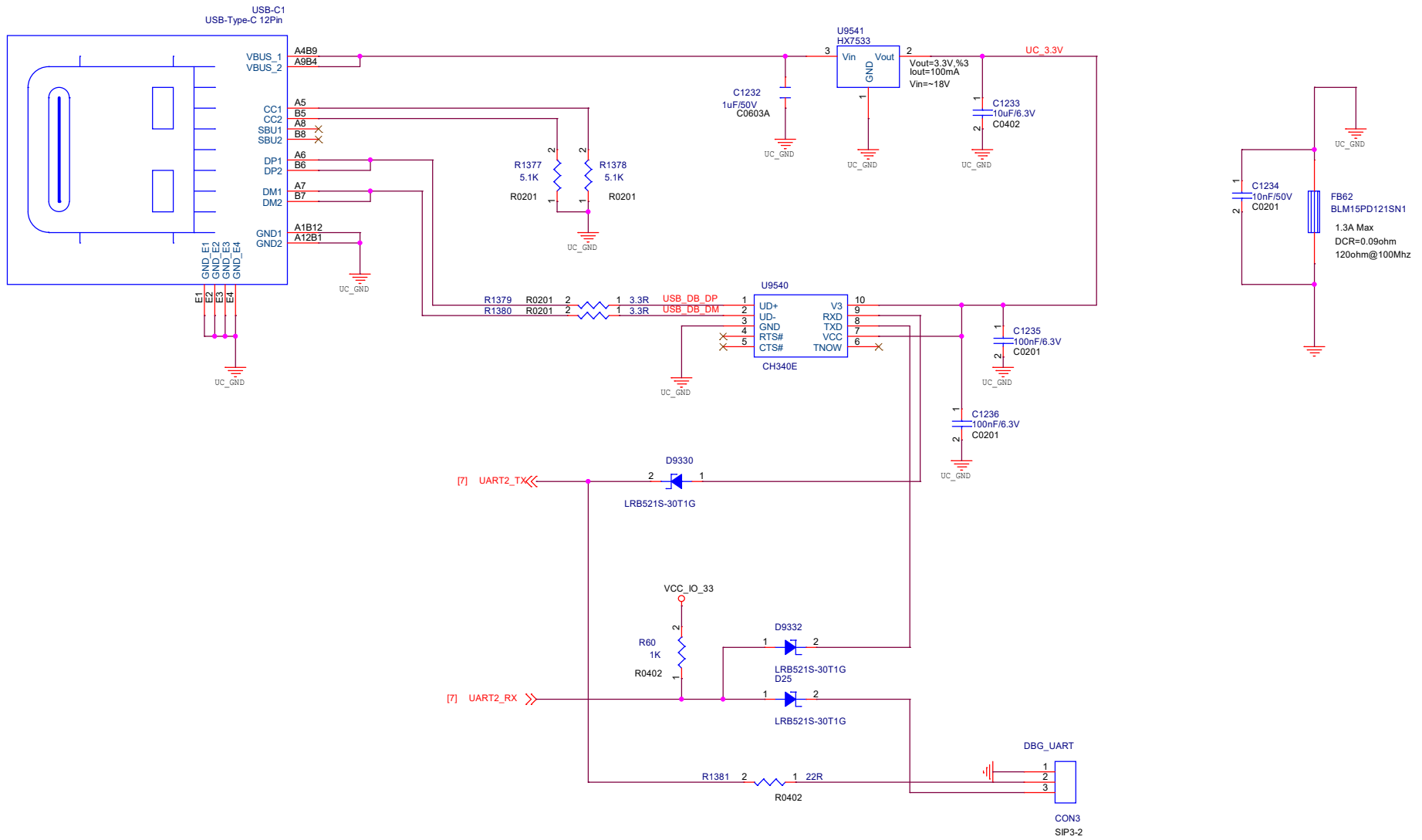
USB Host



LEDs



USB-C Debug



M2 Key E for WiFi

