

RK805-1

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)	



- 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32.769KHz时钟, 然后WIFI/BT又需要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。

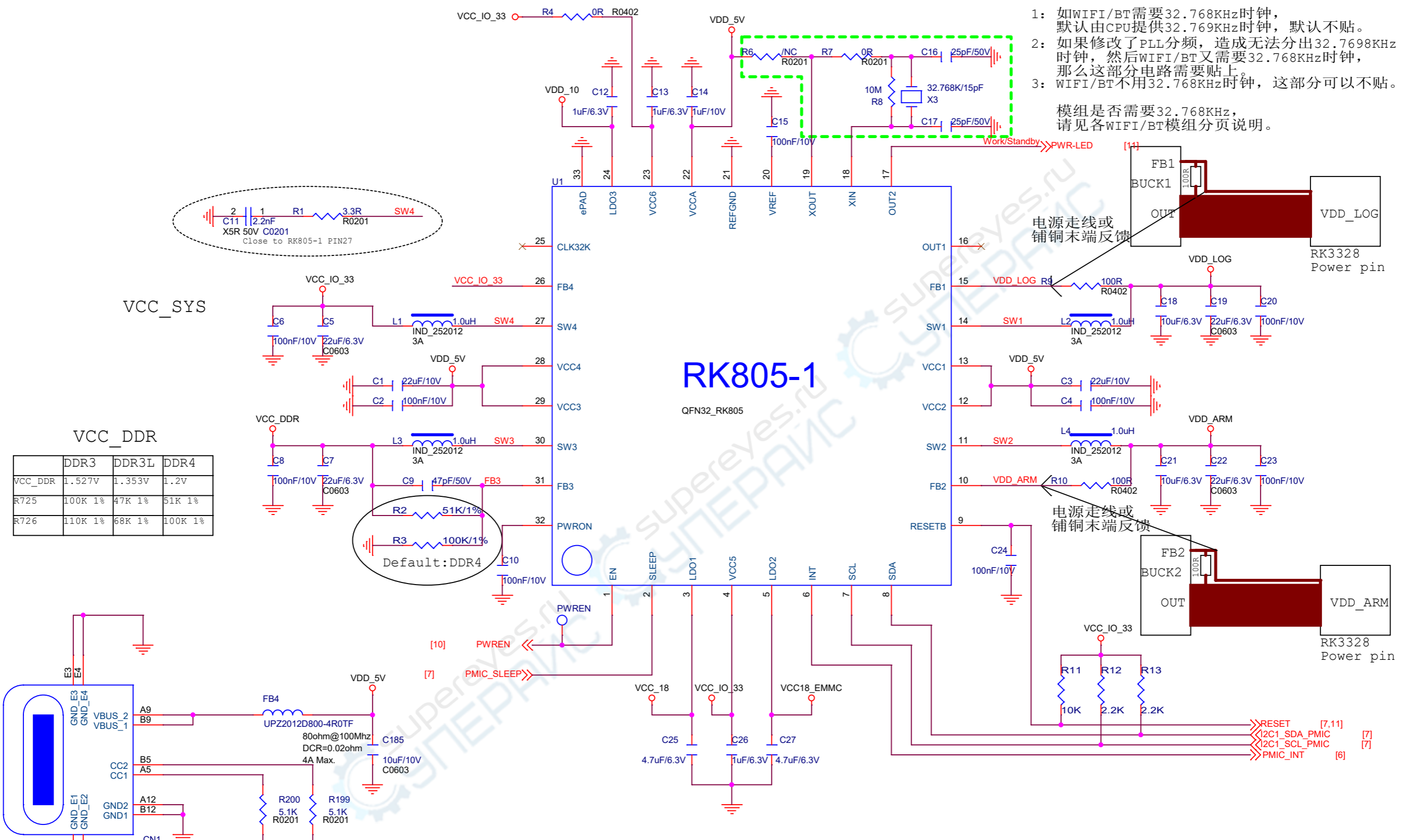
电源走线或
铺铜末端反馈

电源走线或
铺铜末端反馈

Heat sink holes



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



VCC_SYS

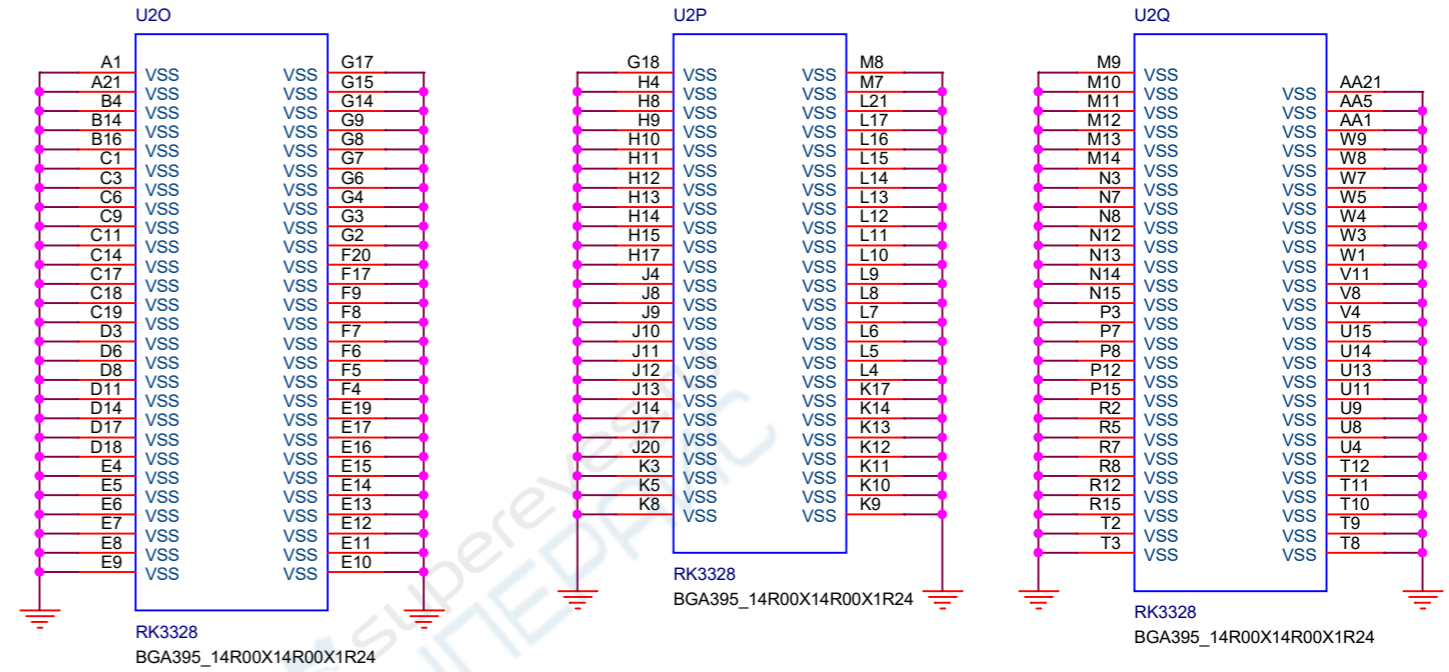
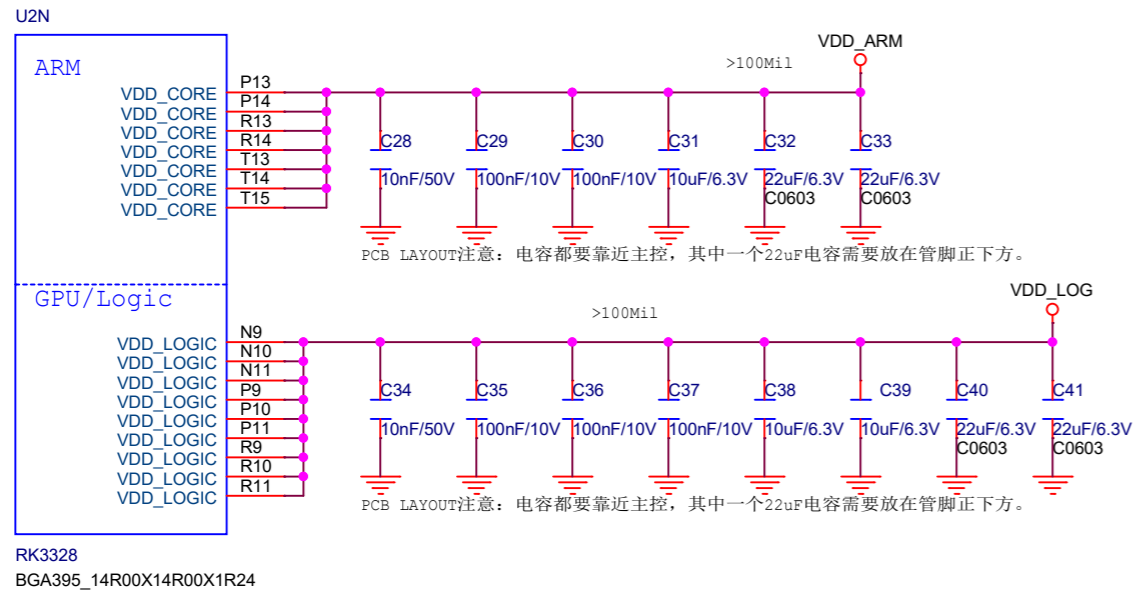
VCC_DDR

	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%

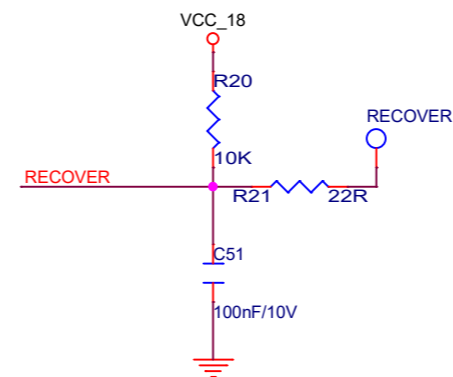
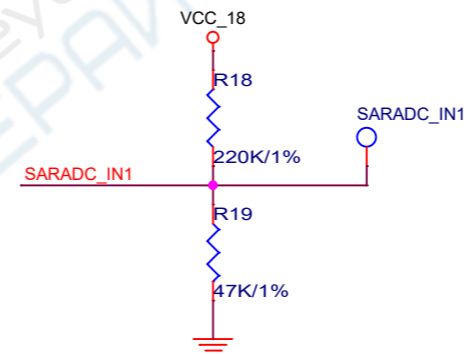
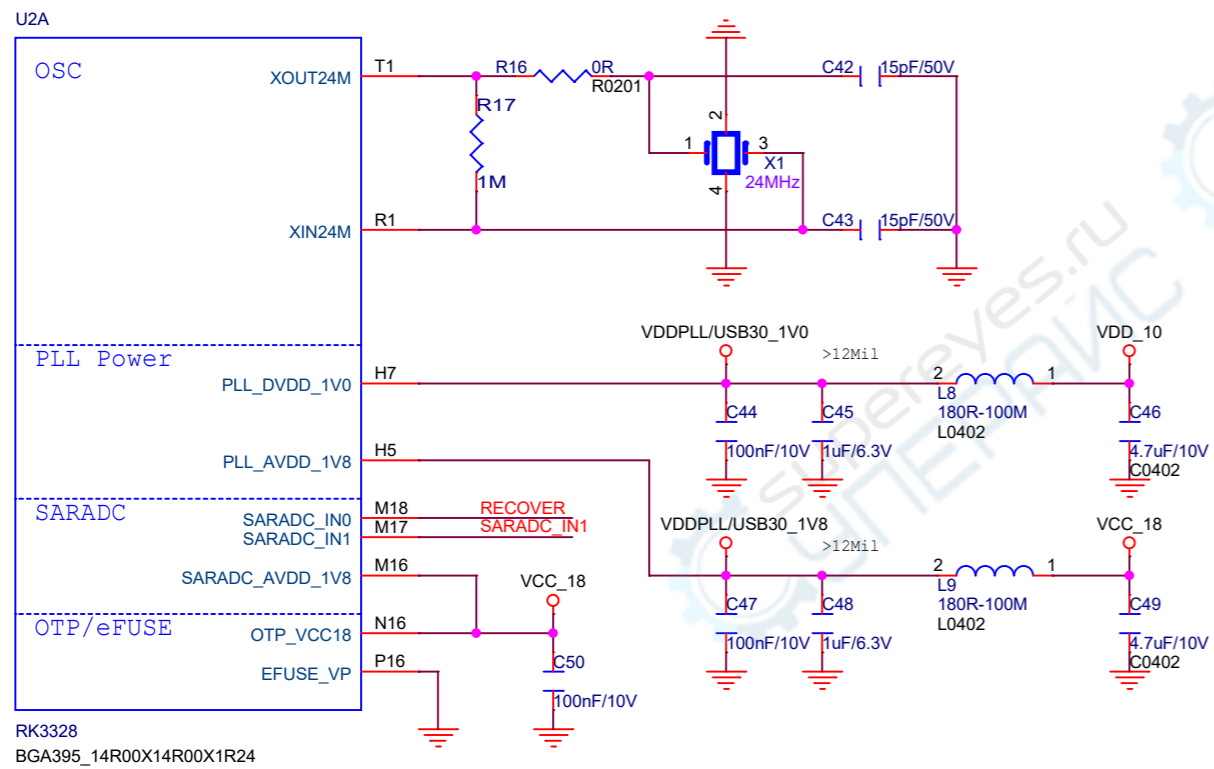
Default:DDR4

RK805-1

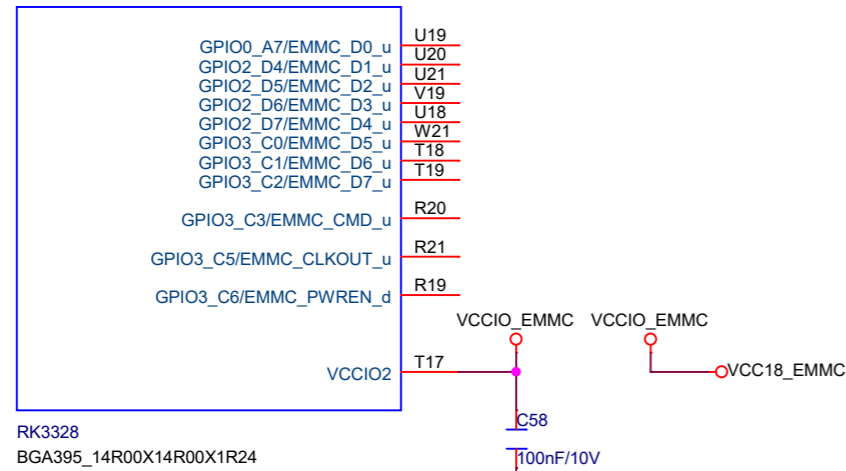
QFN32_RK805



RK3328 OSC/PLL/OTP/SARADC

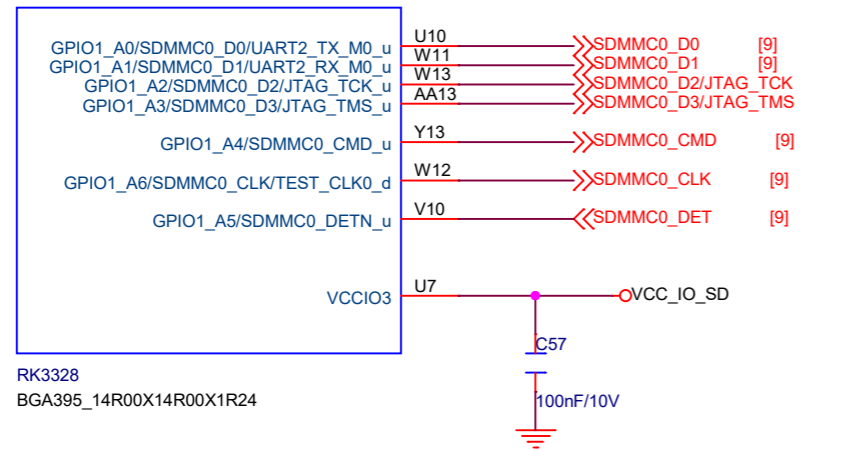


U2C



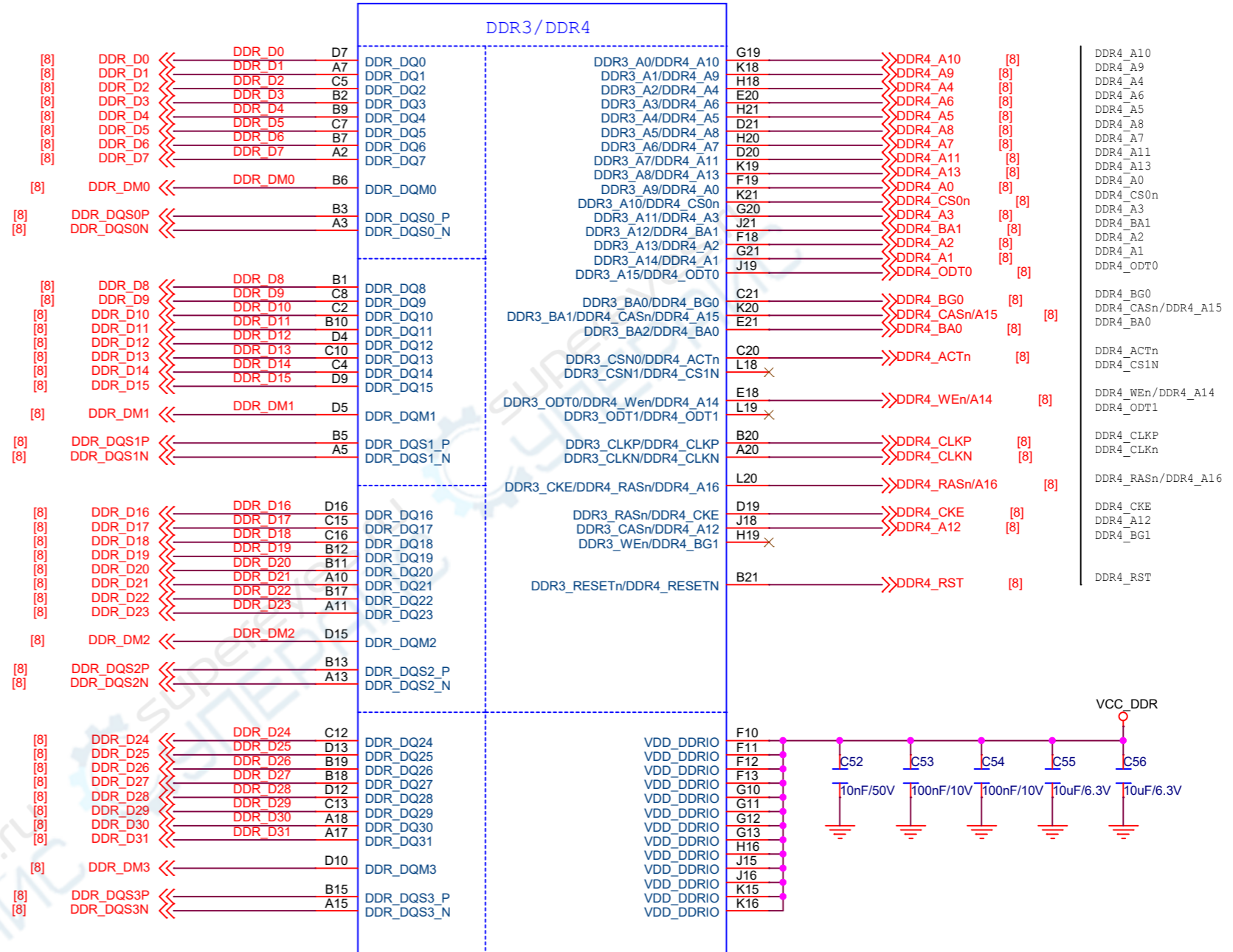
RK3328
BGA395_14R00X14R00X1R24

U2D

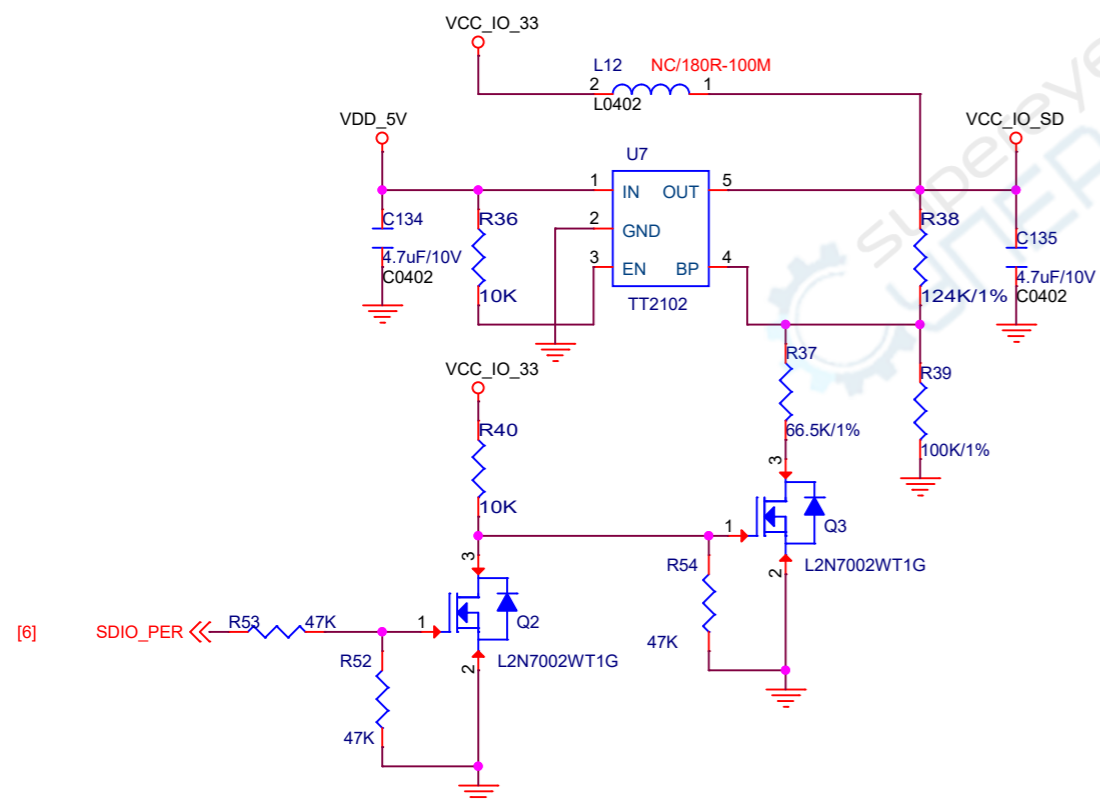


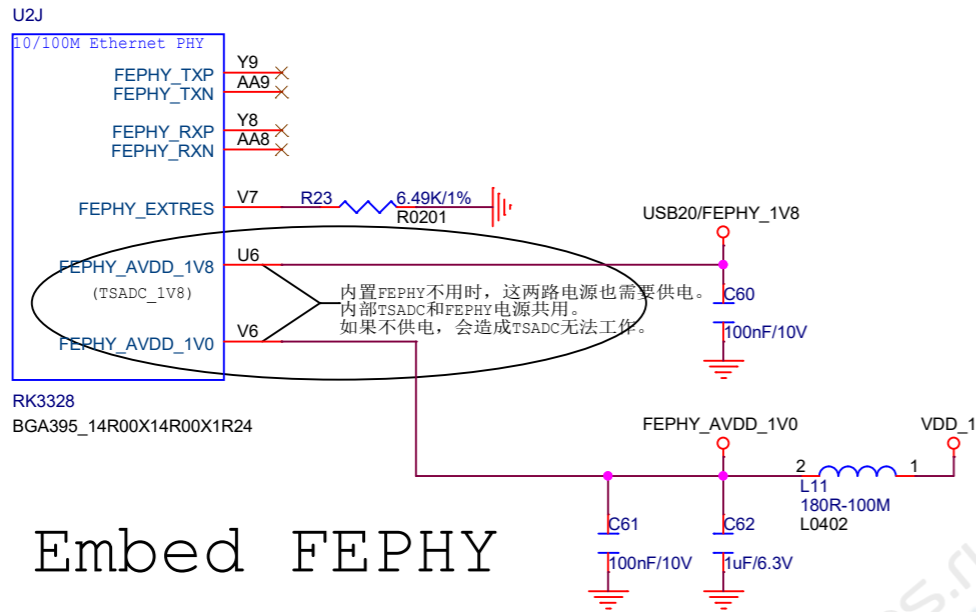
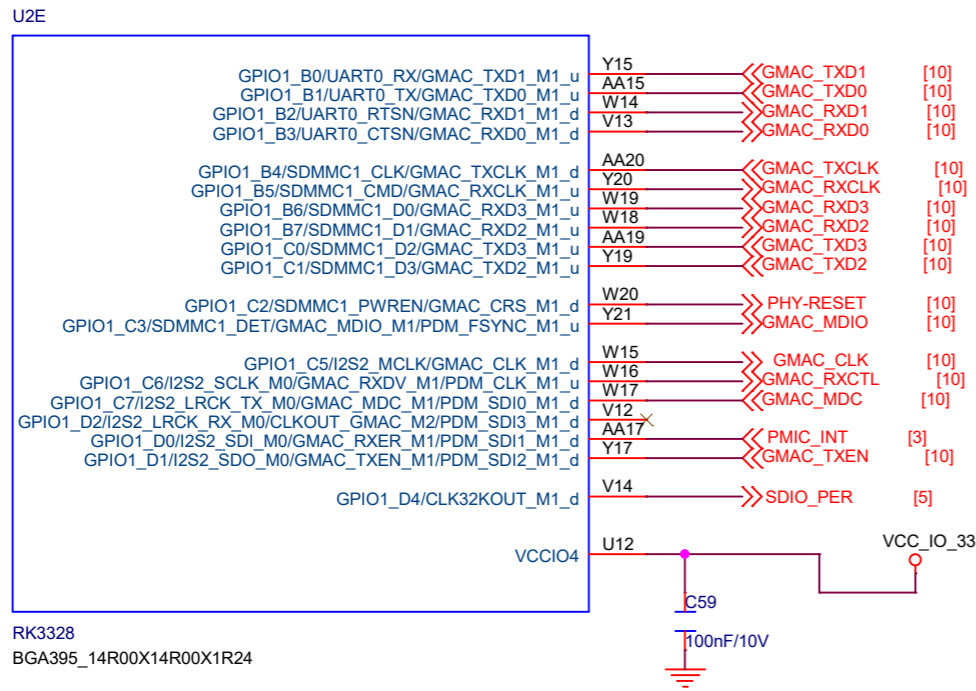
RK3328
BGA395_14R00X14R00X1R24

U2M

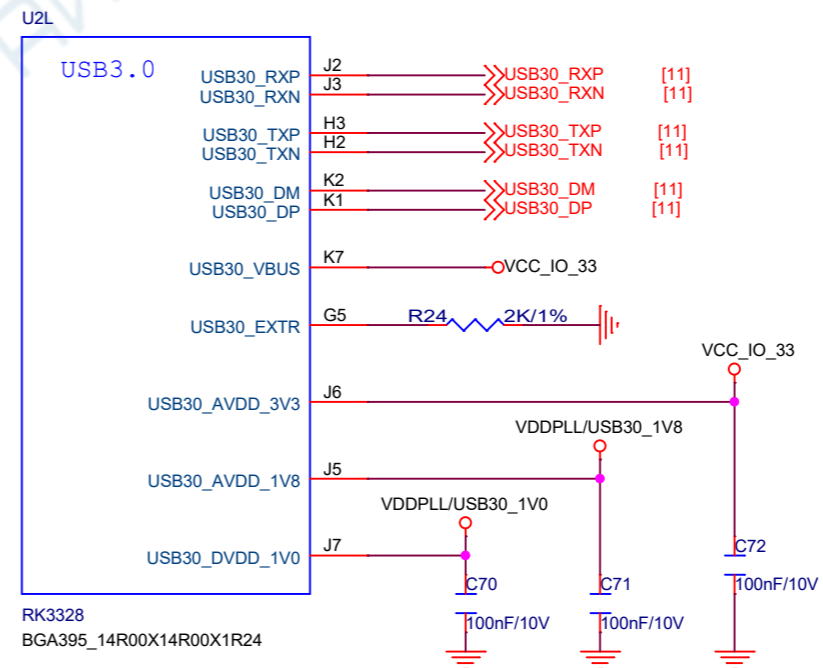
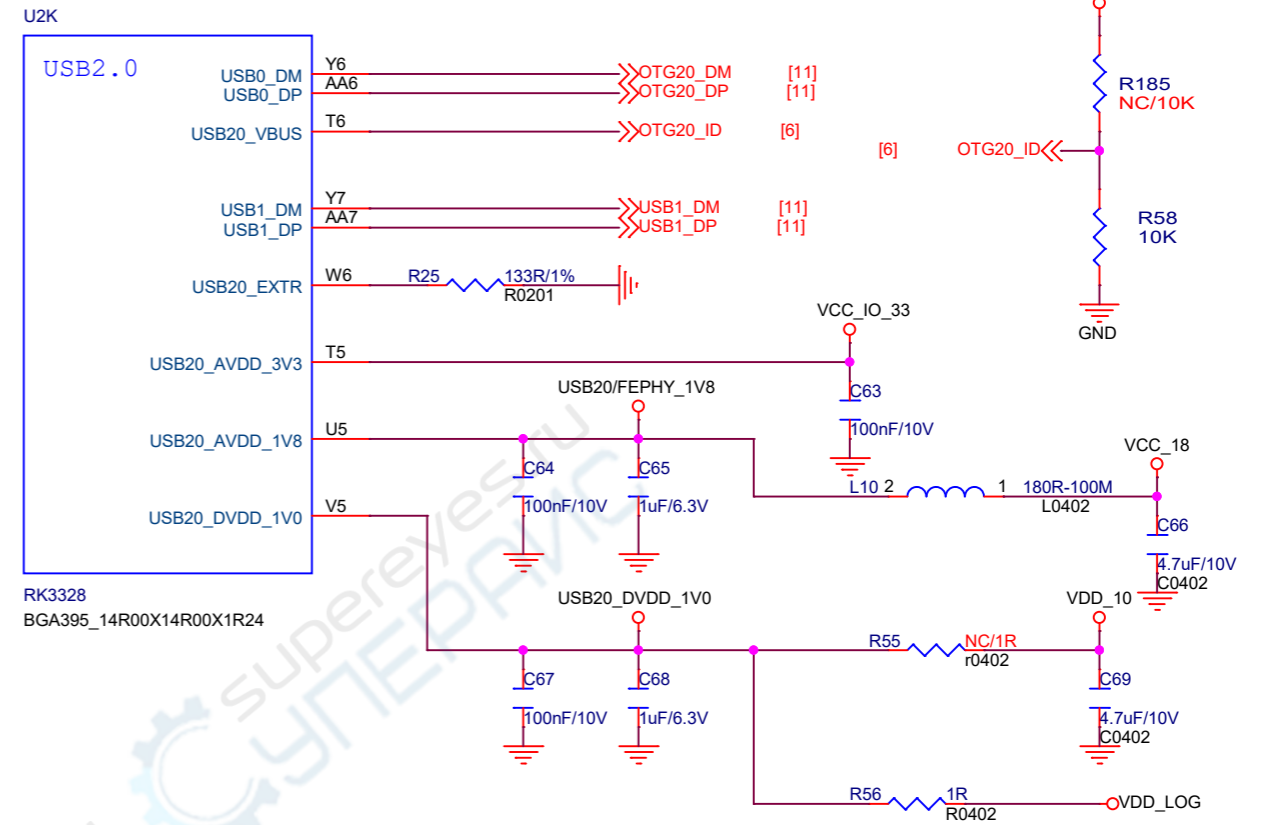
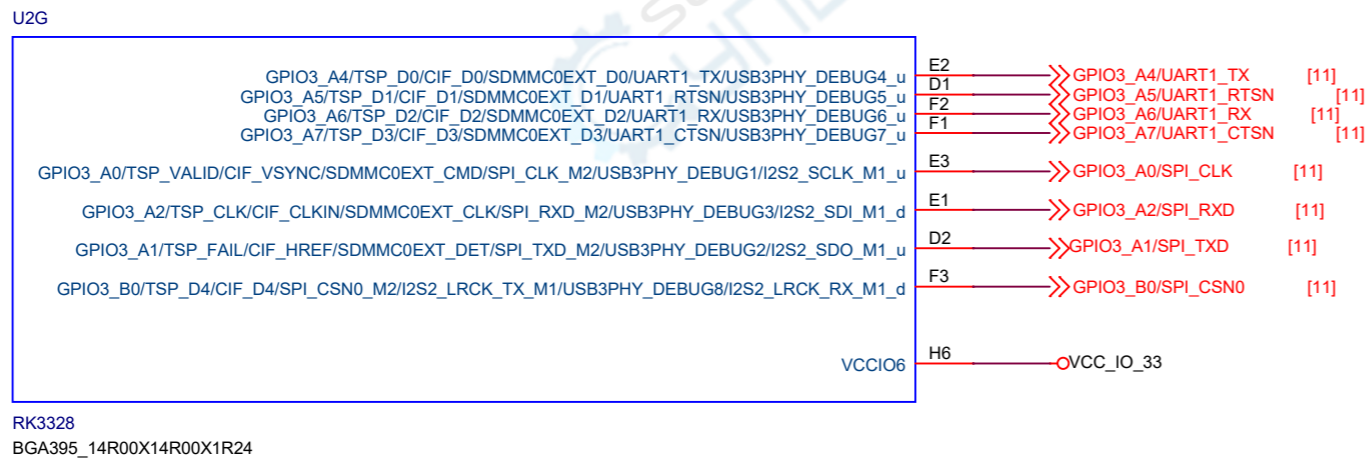


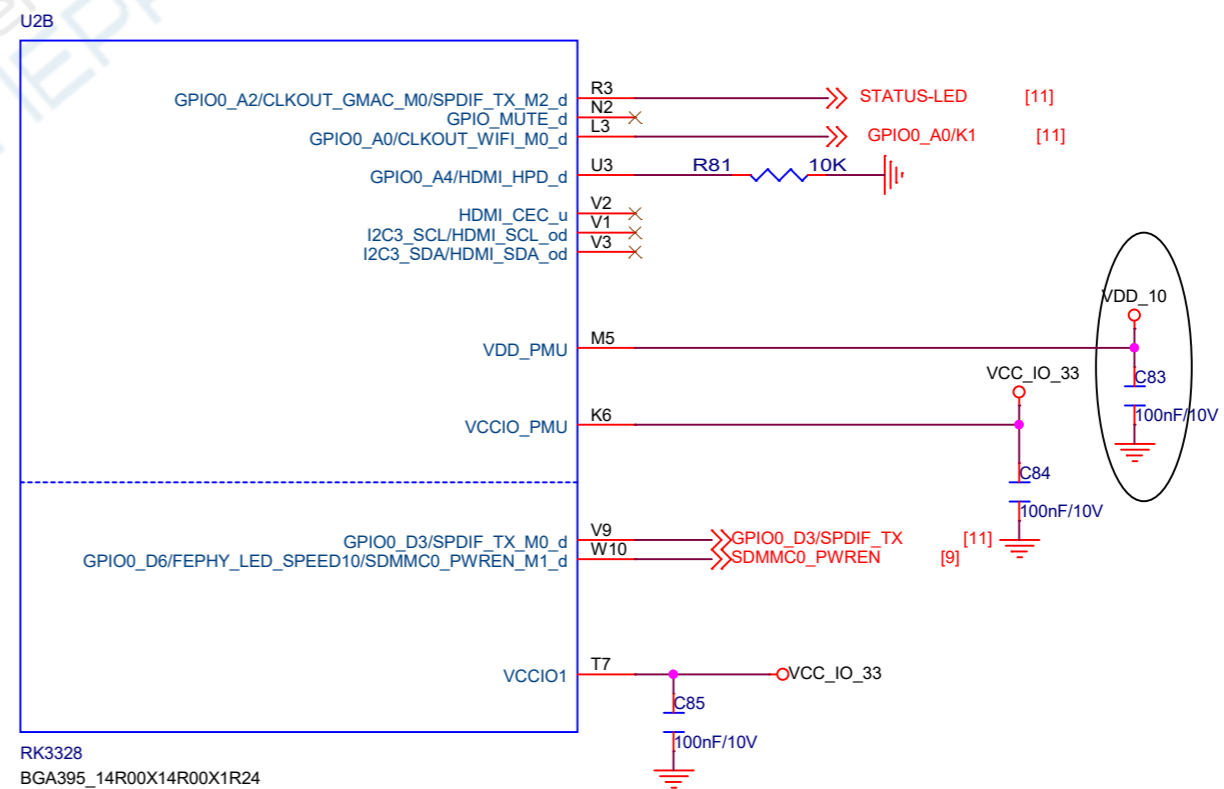
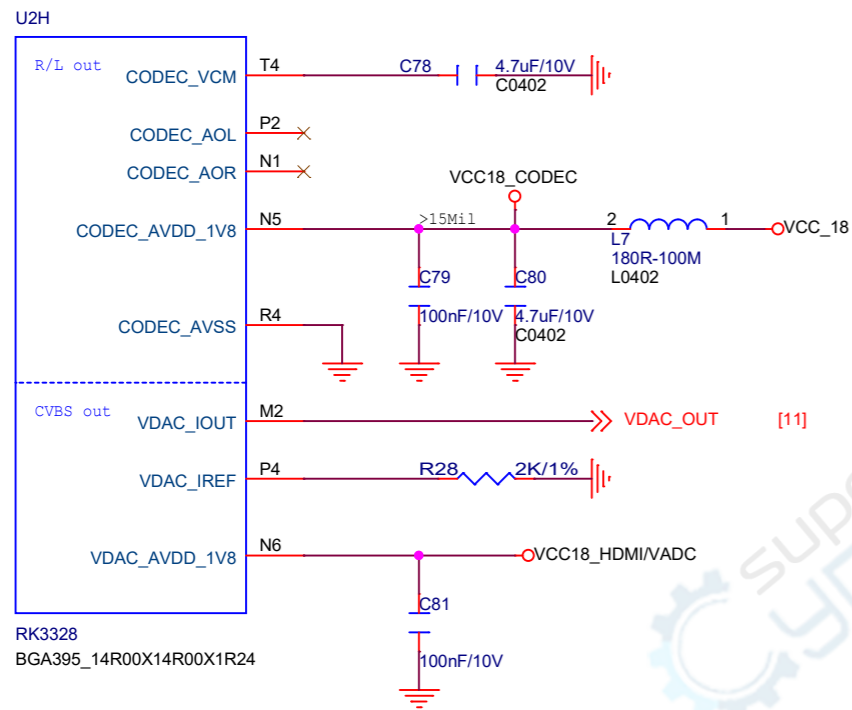
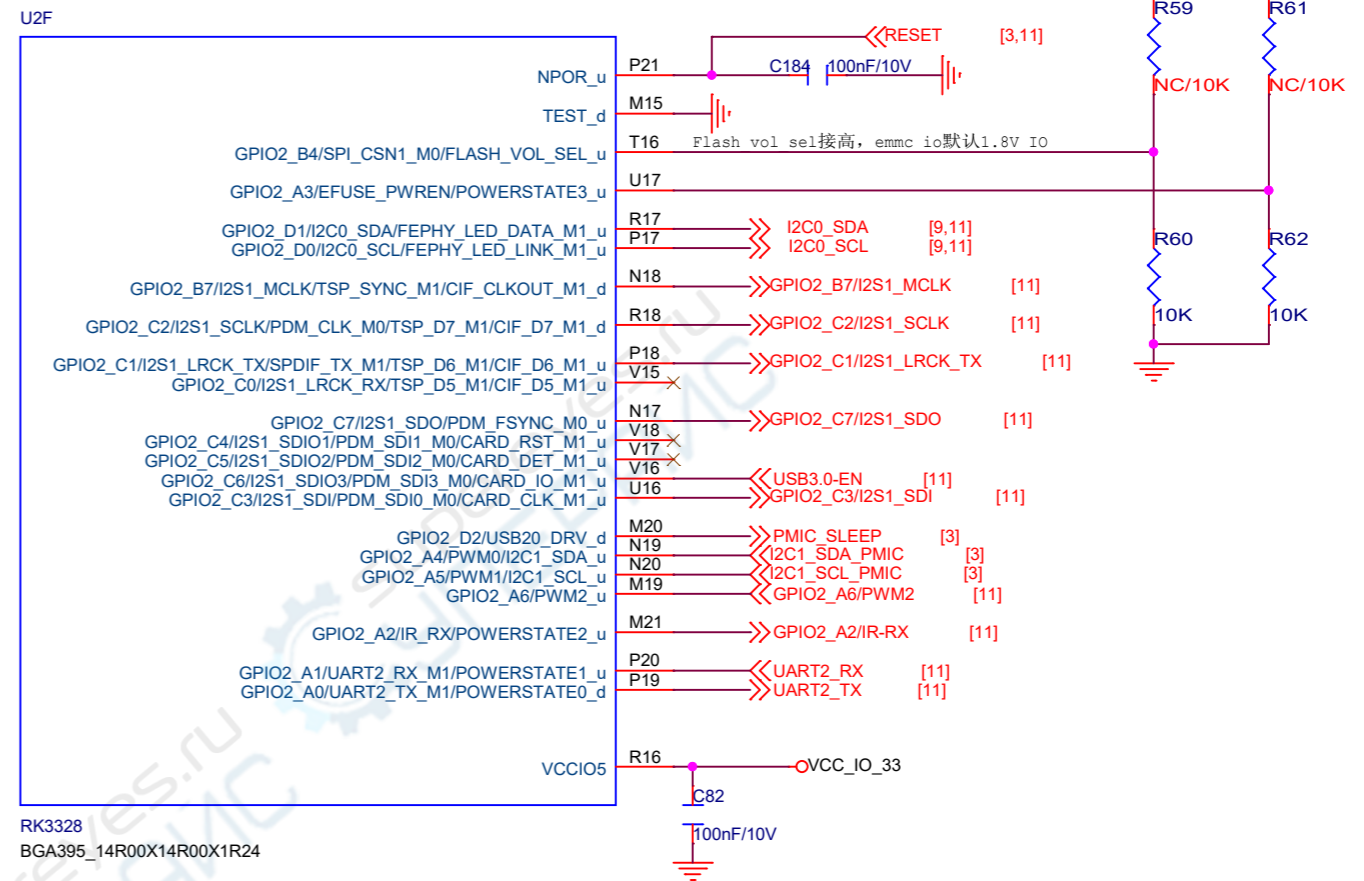
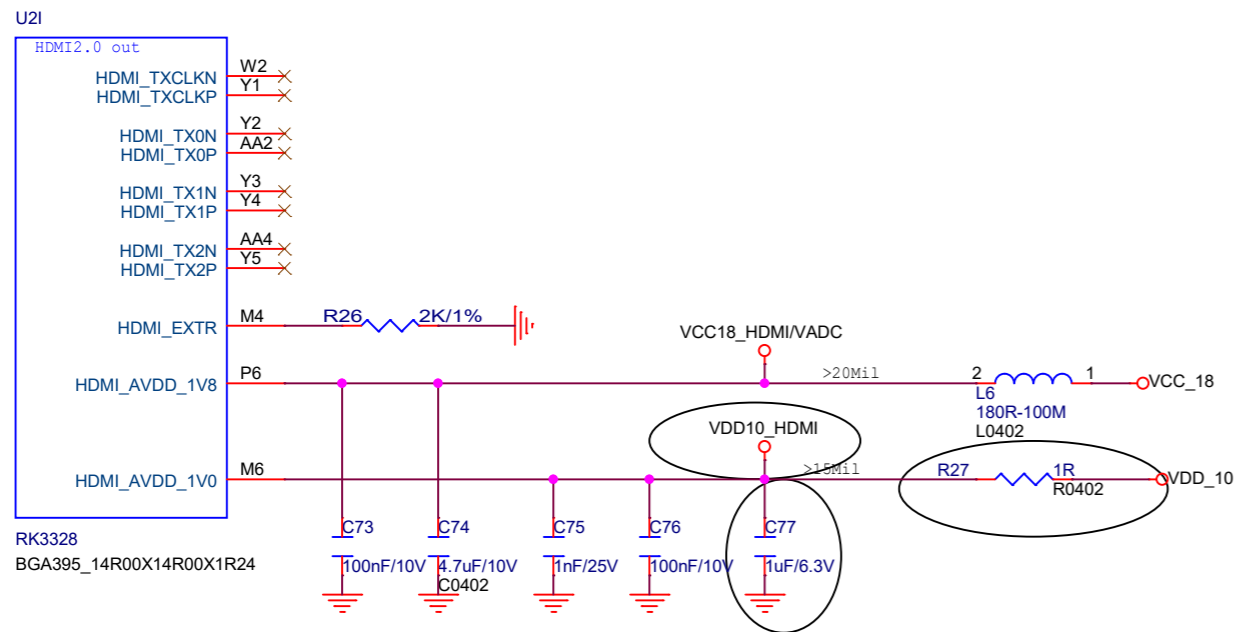
RK3328
BGA395_14R00X14R00X1R24

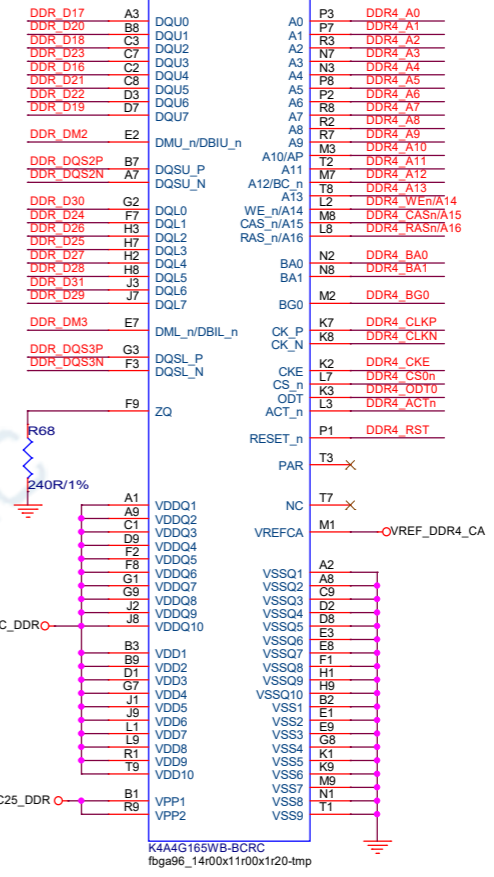
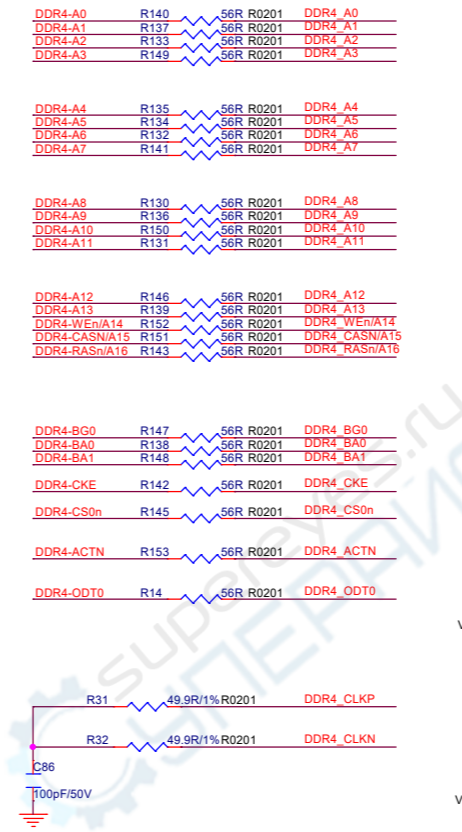
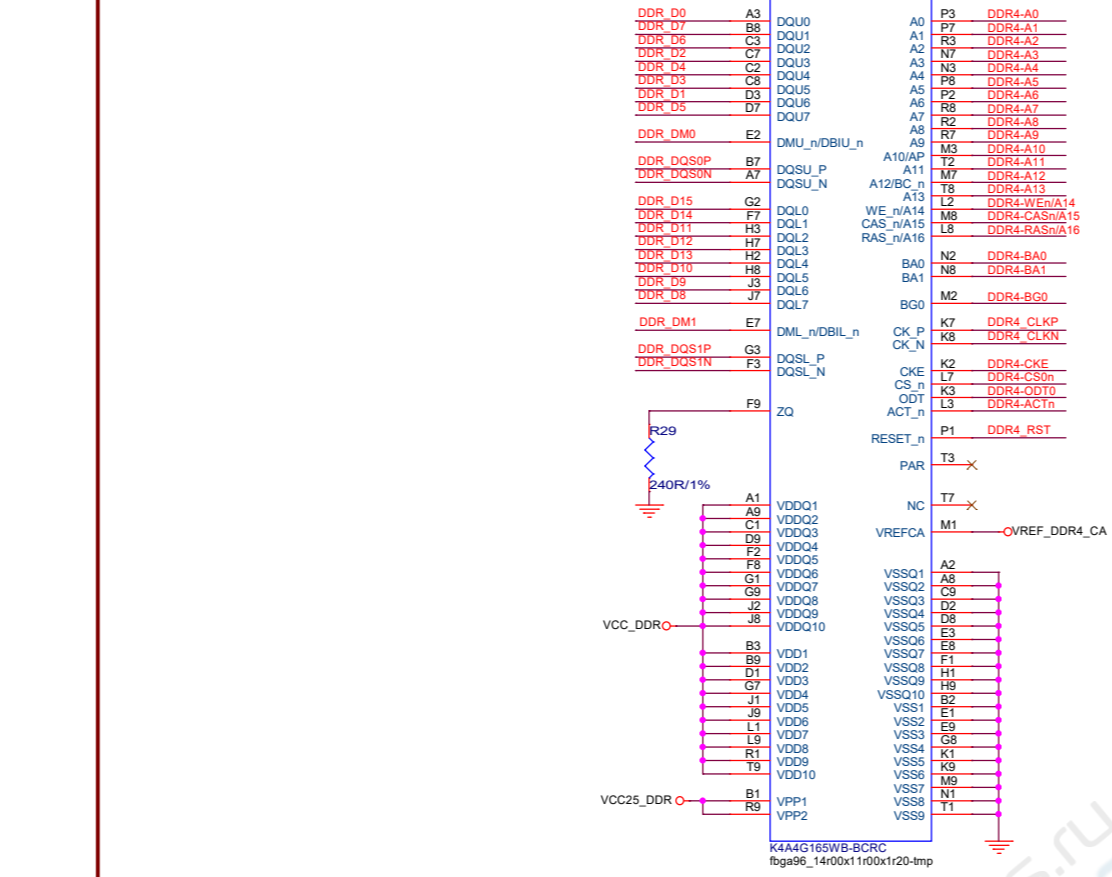
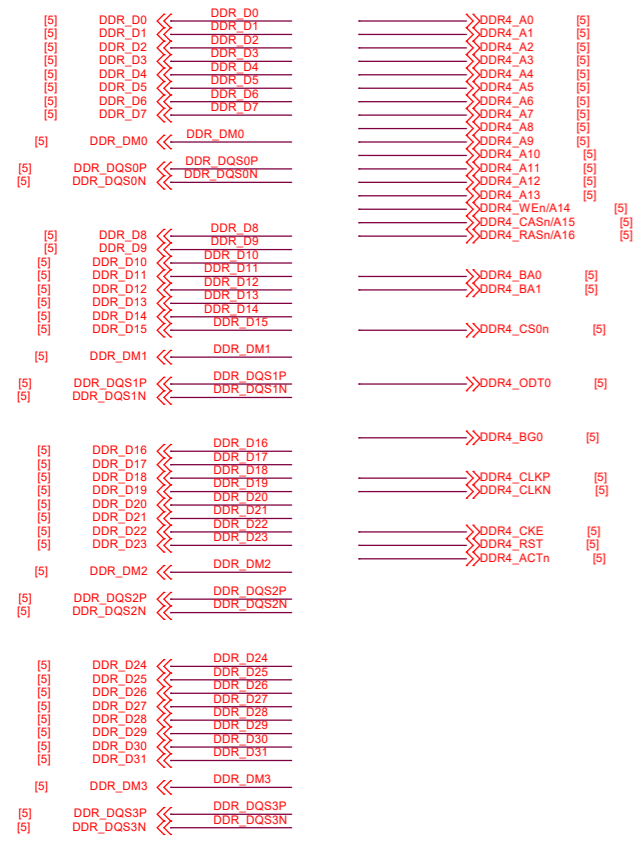




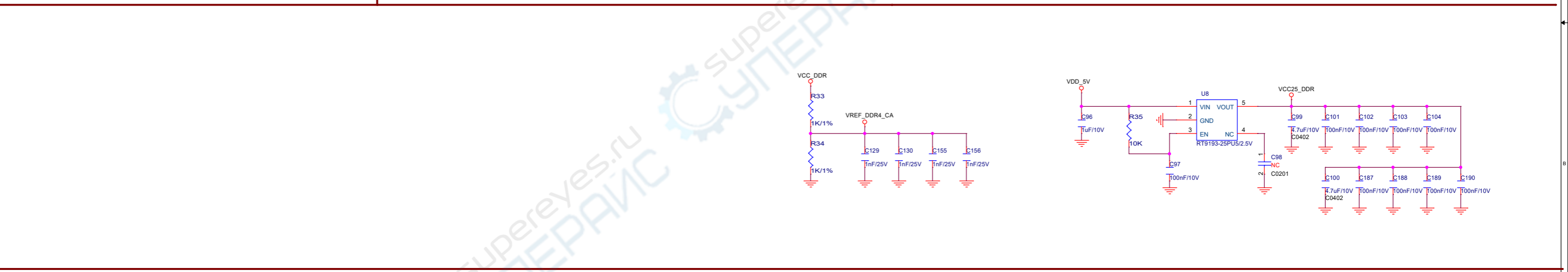
Embed FEPHY



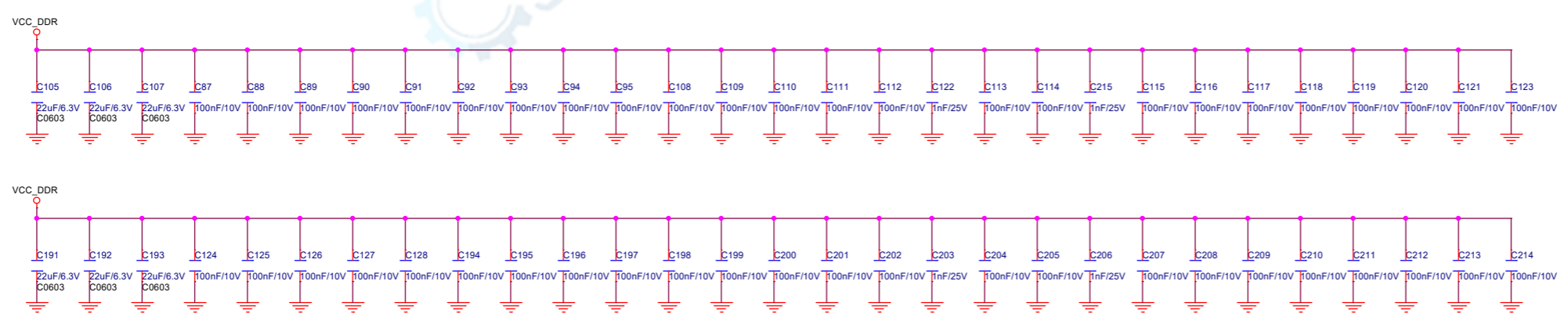




Note: 2X16bit DDR4
颗粒速率 >= 2133Mb/s

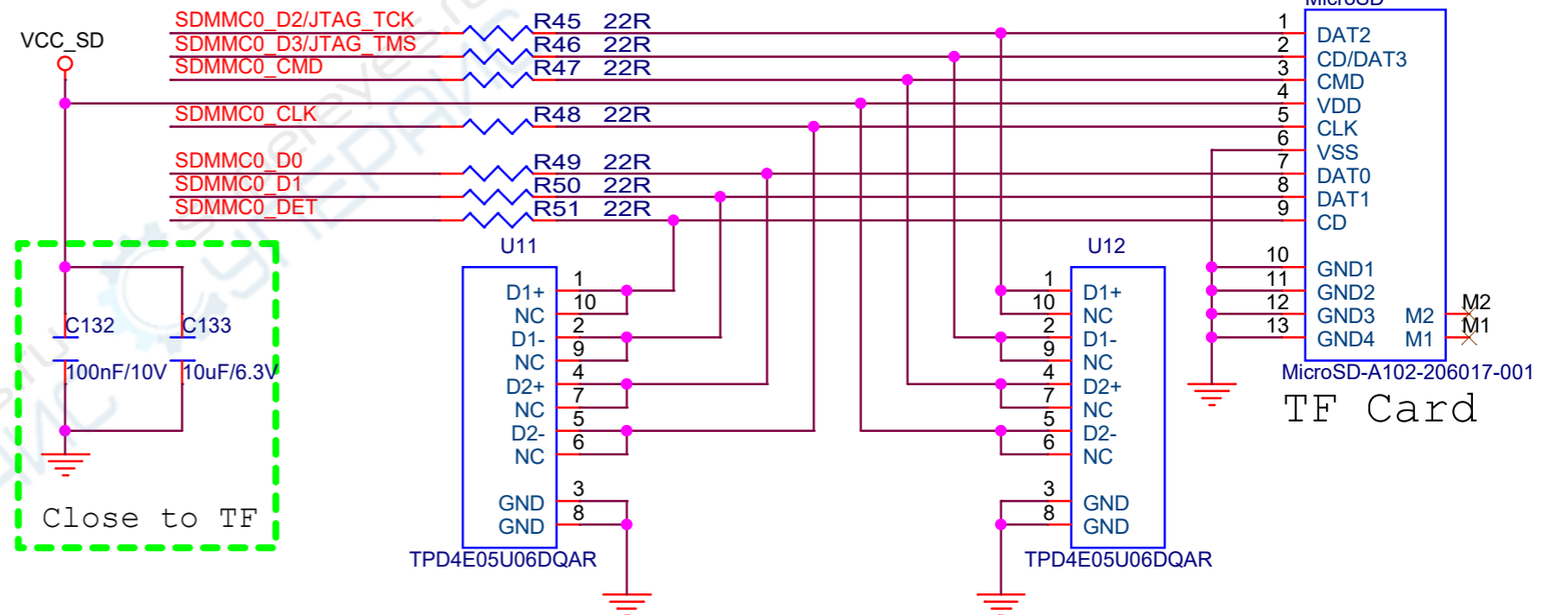
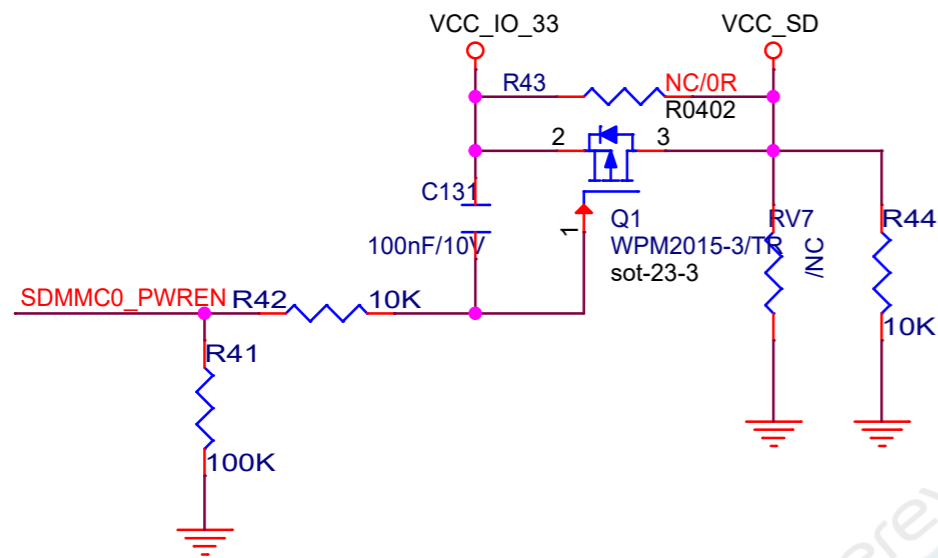
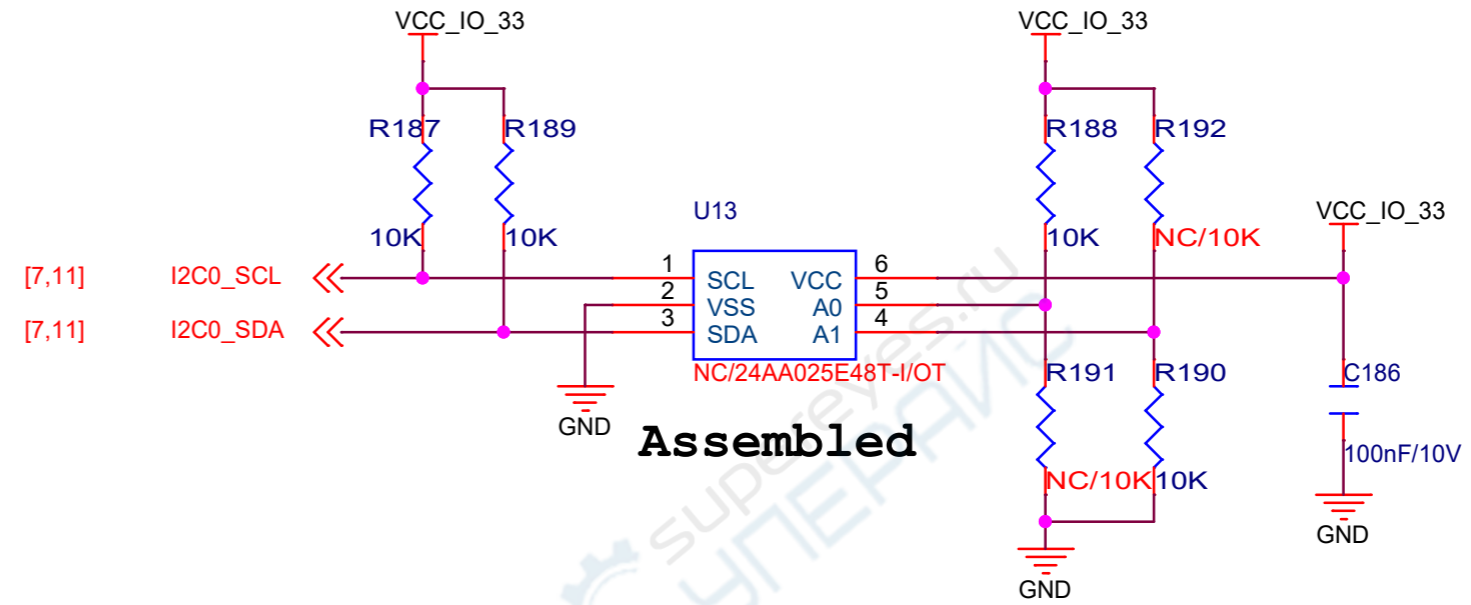
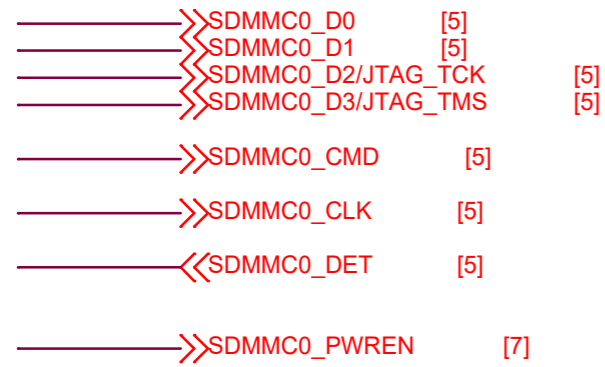


DDR4 FILTER

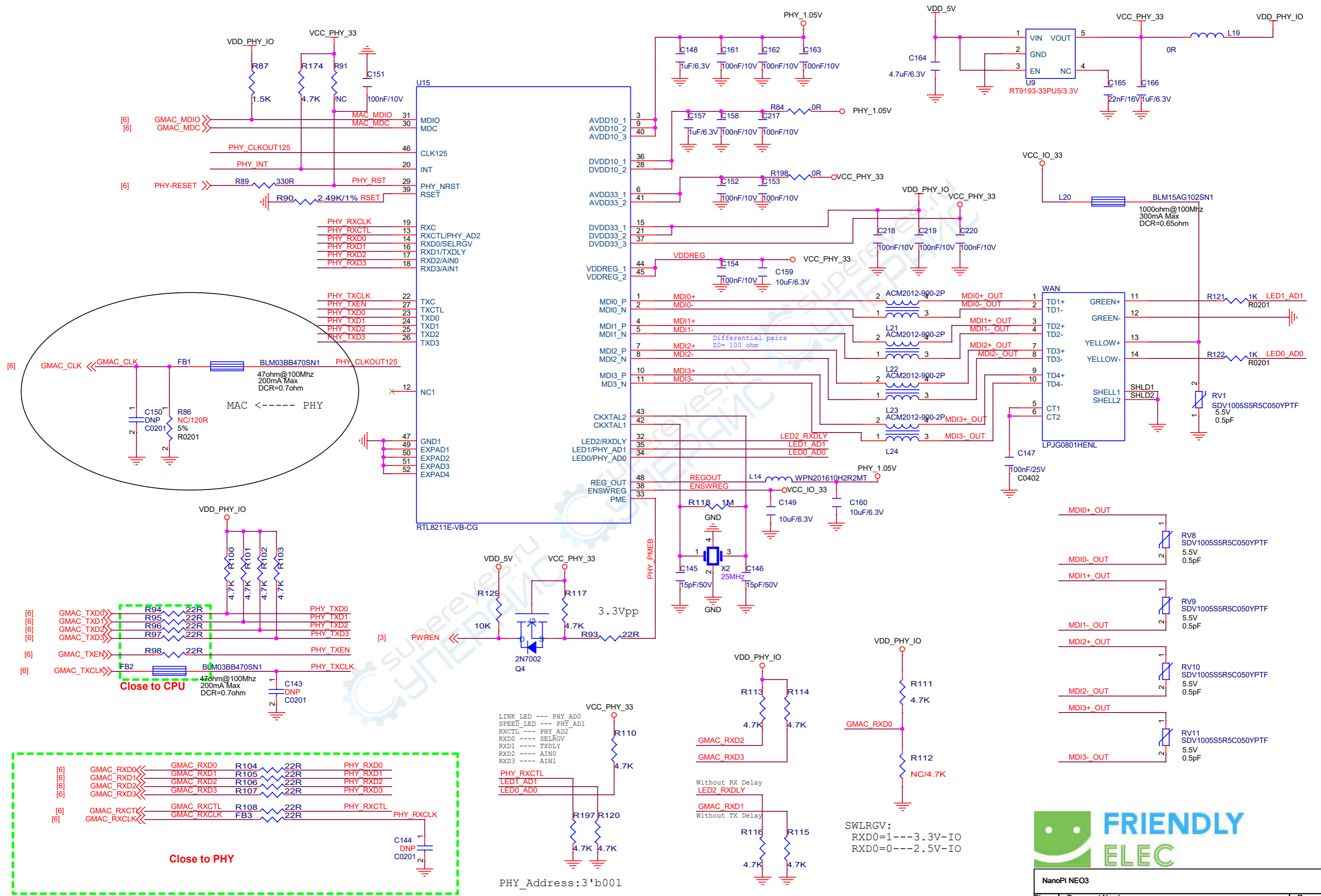


NanoPi NEO3		
Size	Document Number	Rev
A2	08.RAM DDR4 4x16bit	2005
Date:	Sunday, June 28, 2020	Sheet 8 of 11

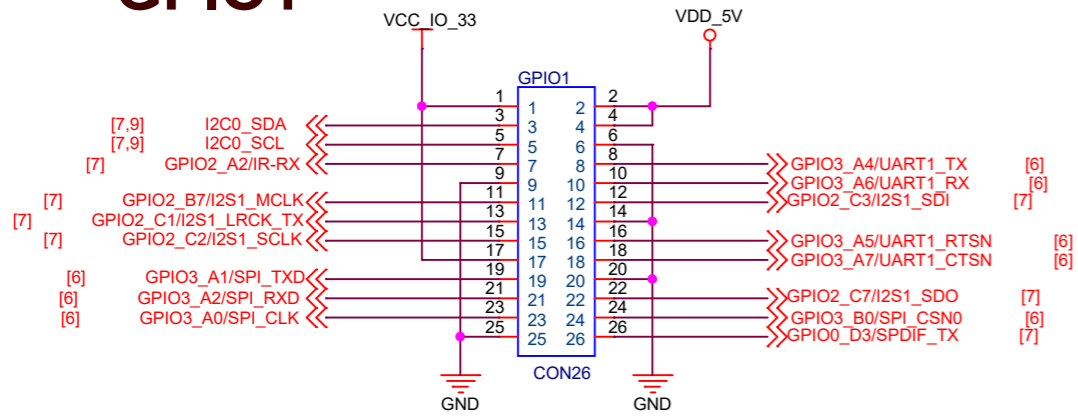
EEPROM with MAC Address



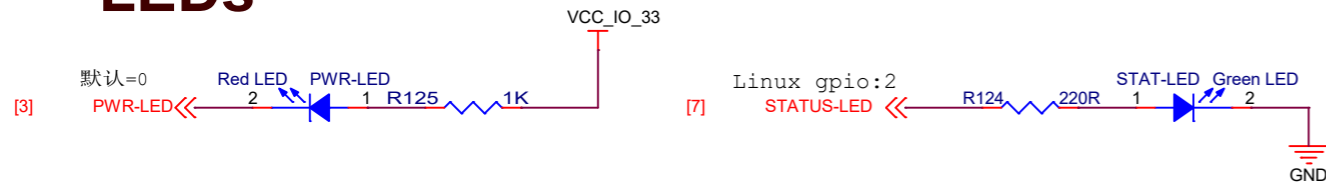
NanoPi NEO3



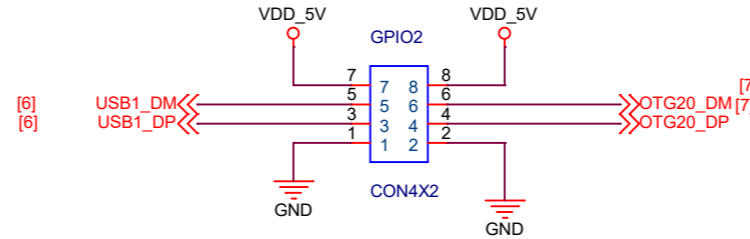
GPIO1



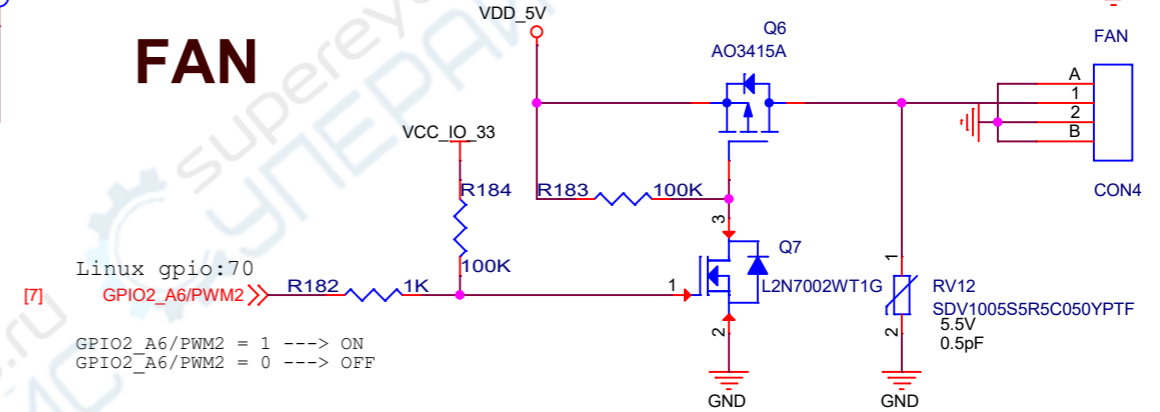
LEDs



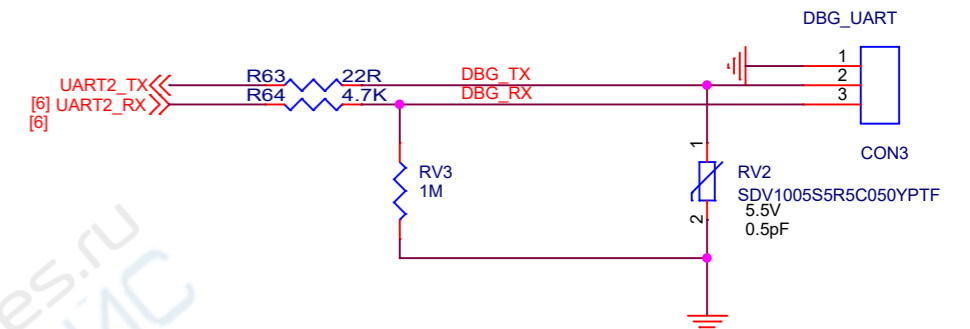
GPIO2



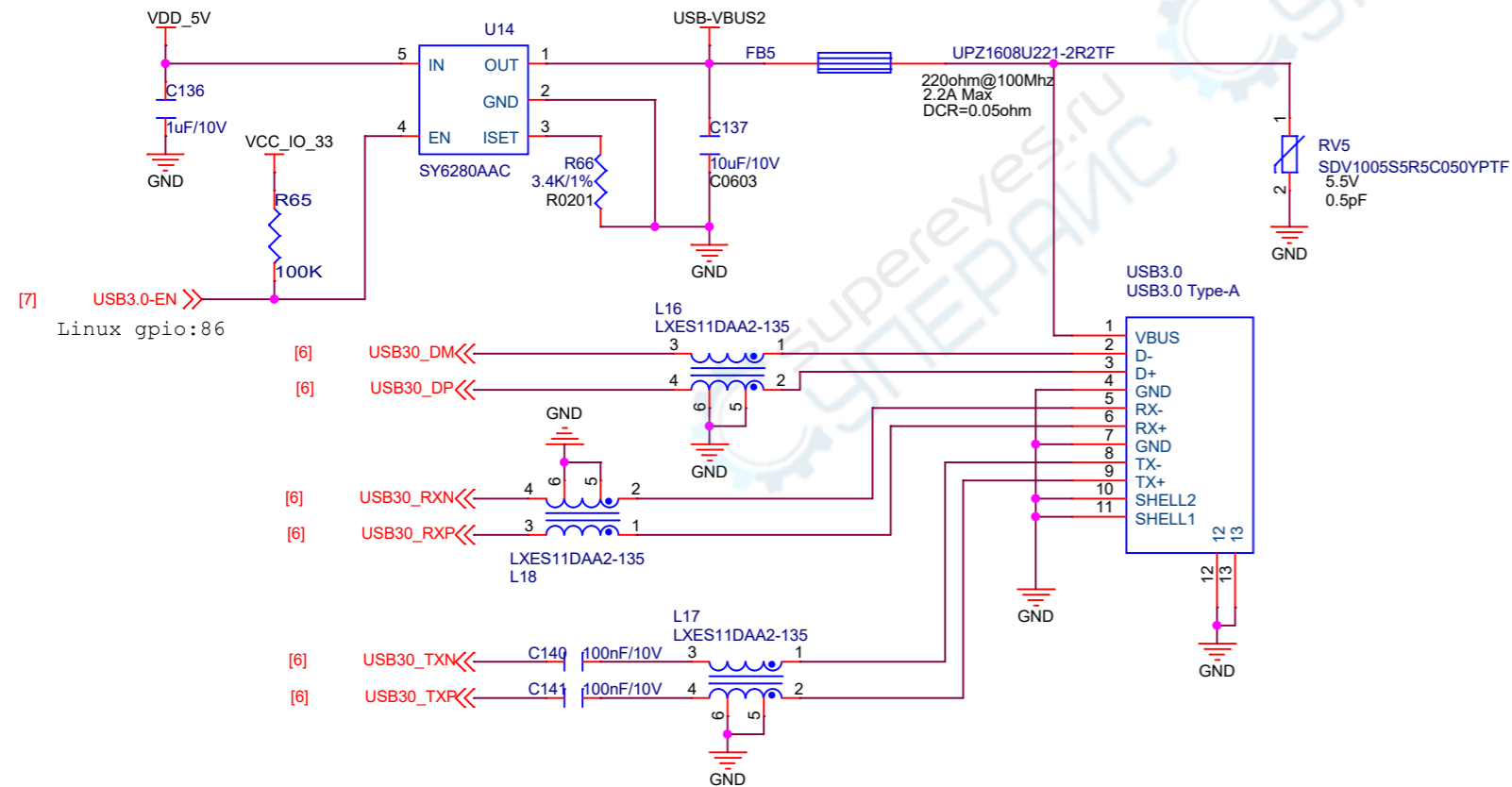
FAN



Debug UART2



USB3.0



KEY

