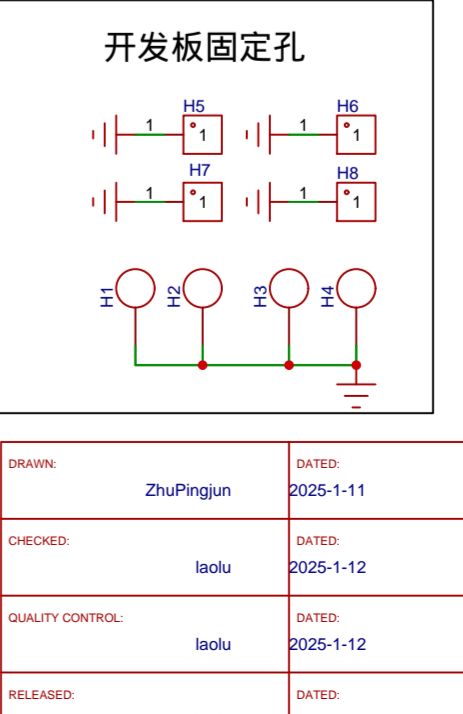
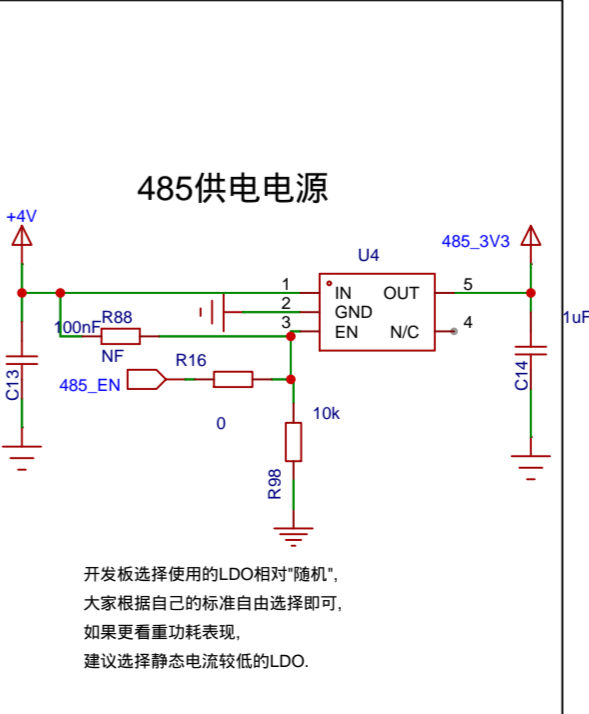
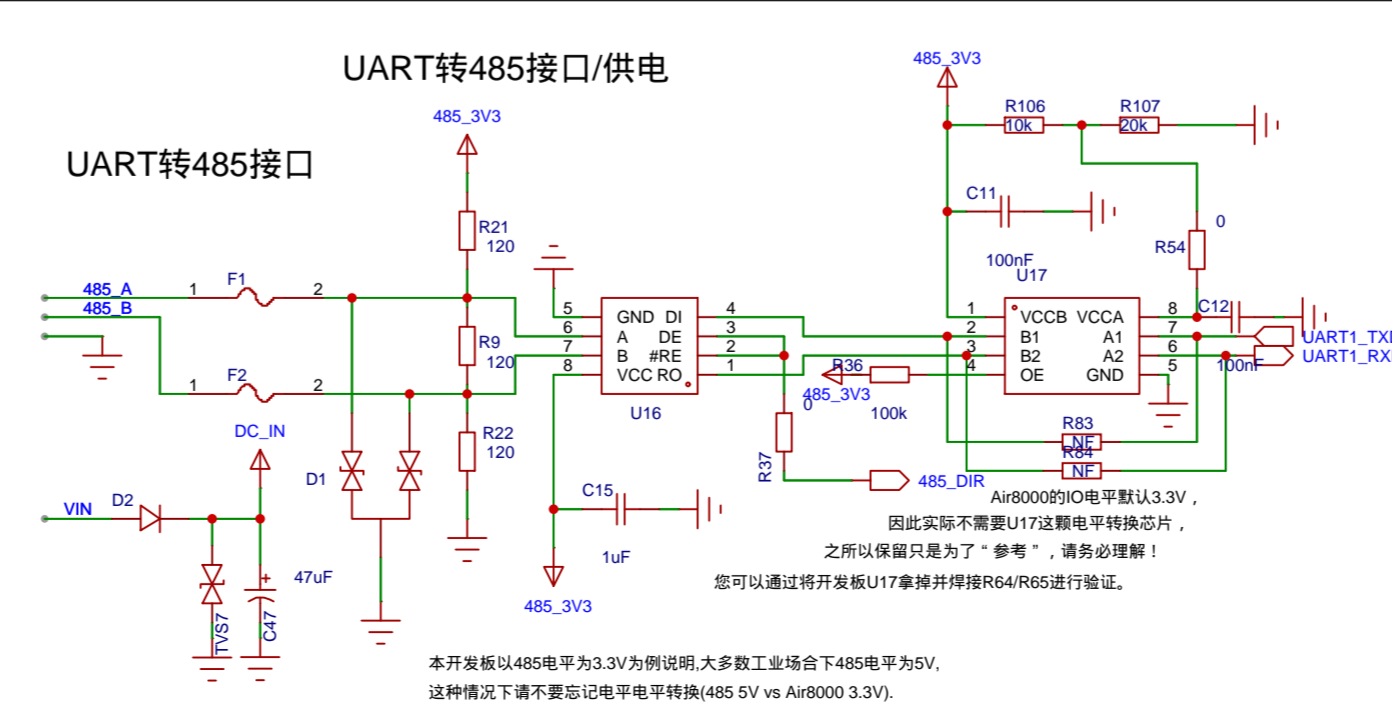
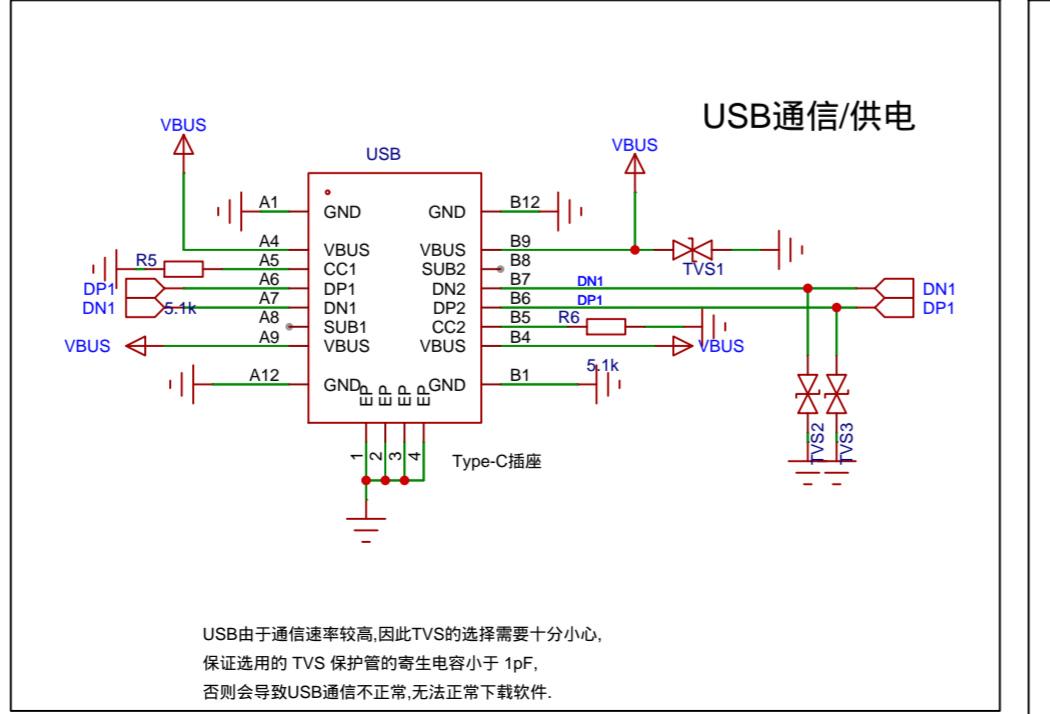
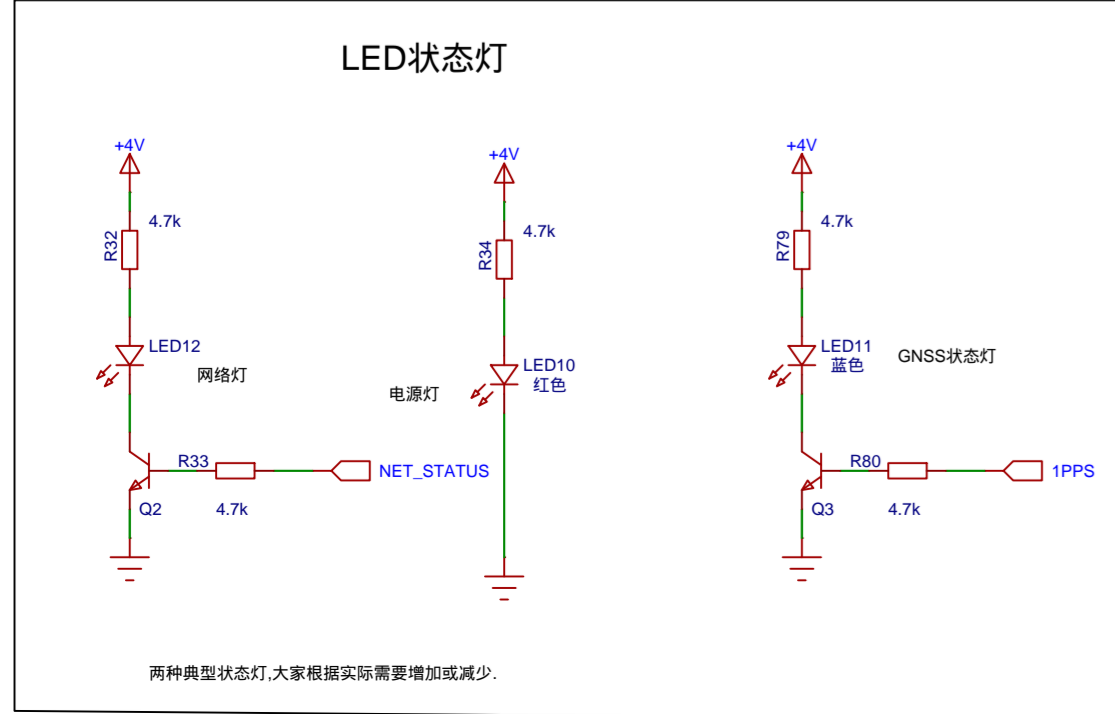
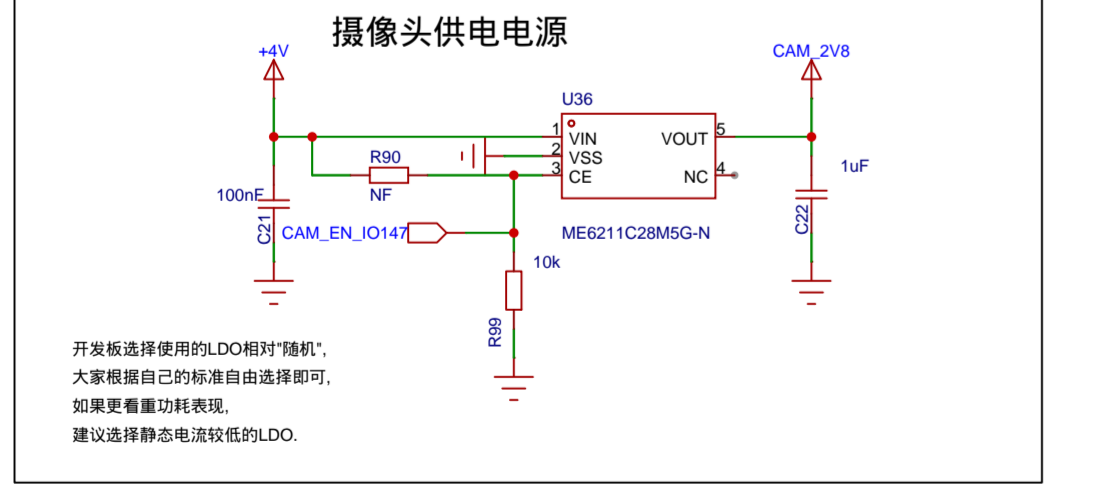
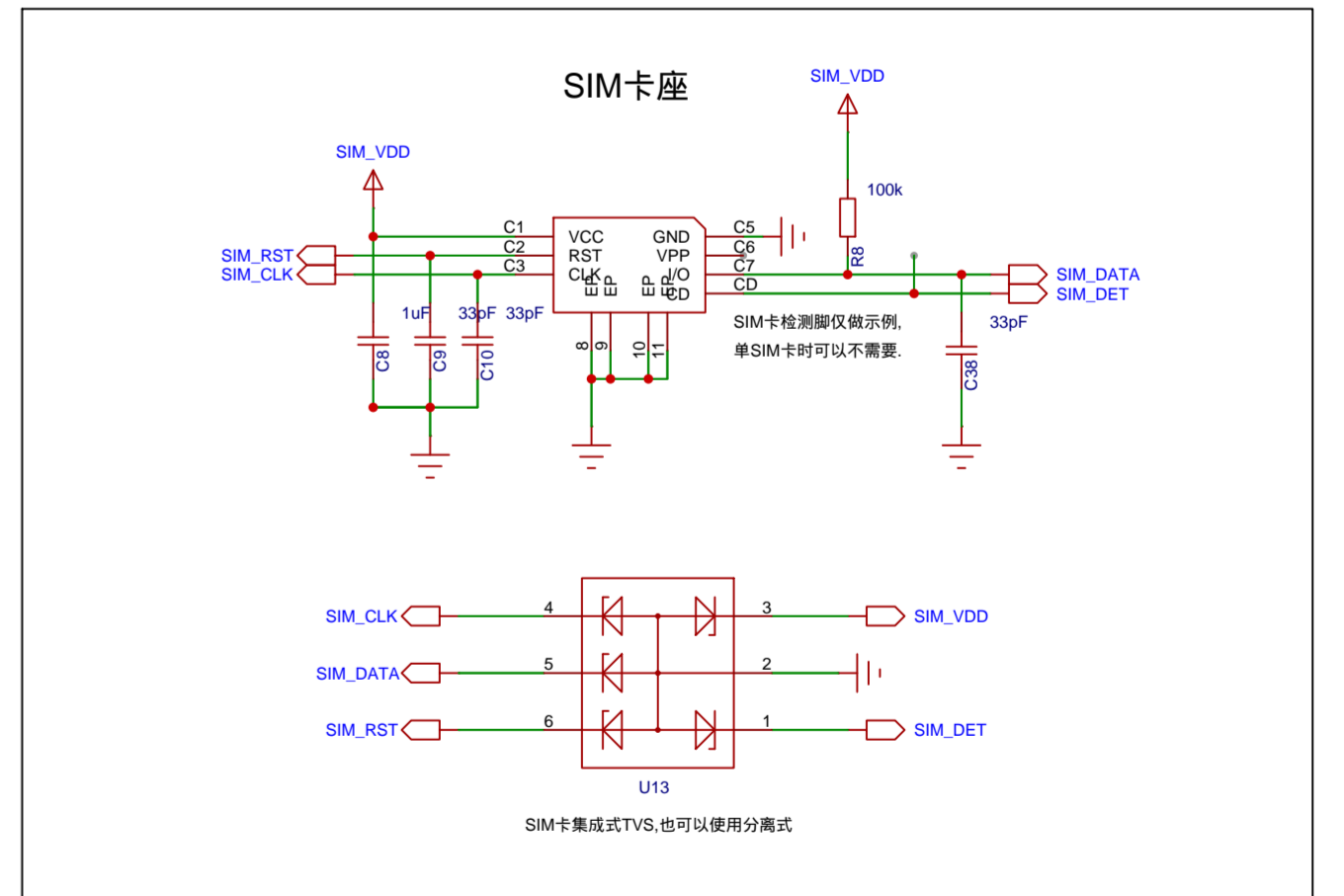
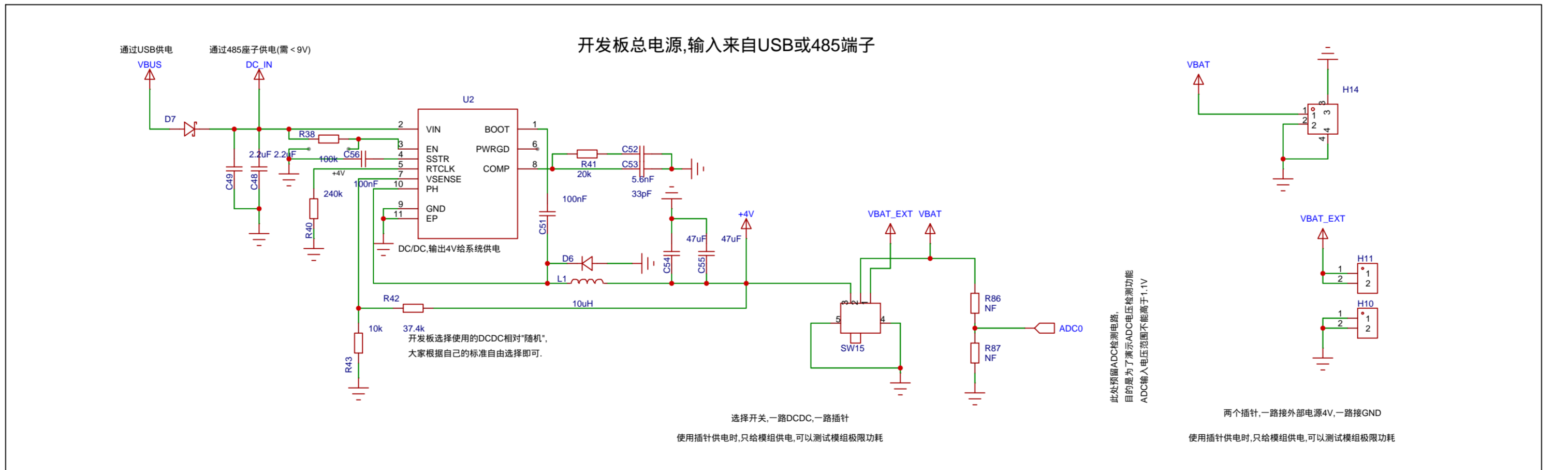
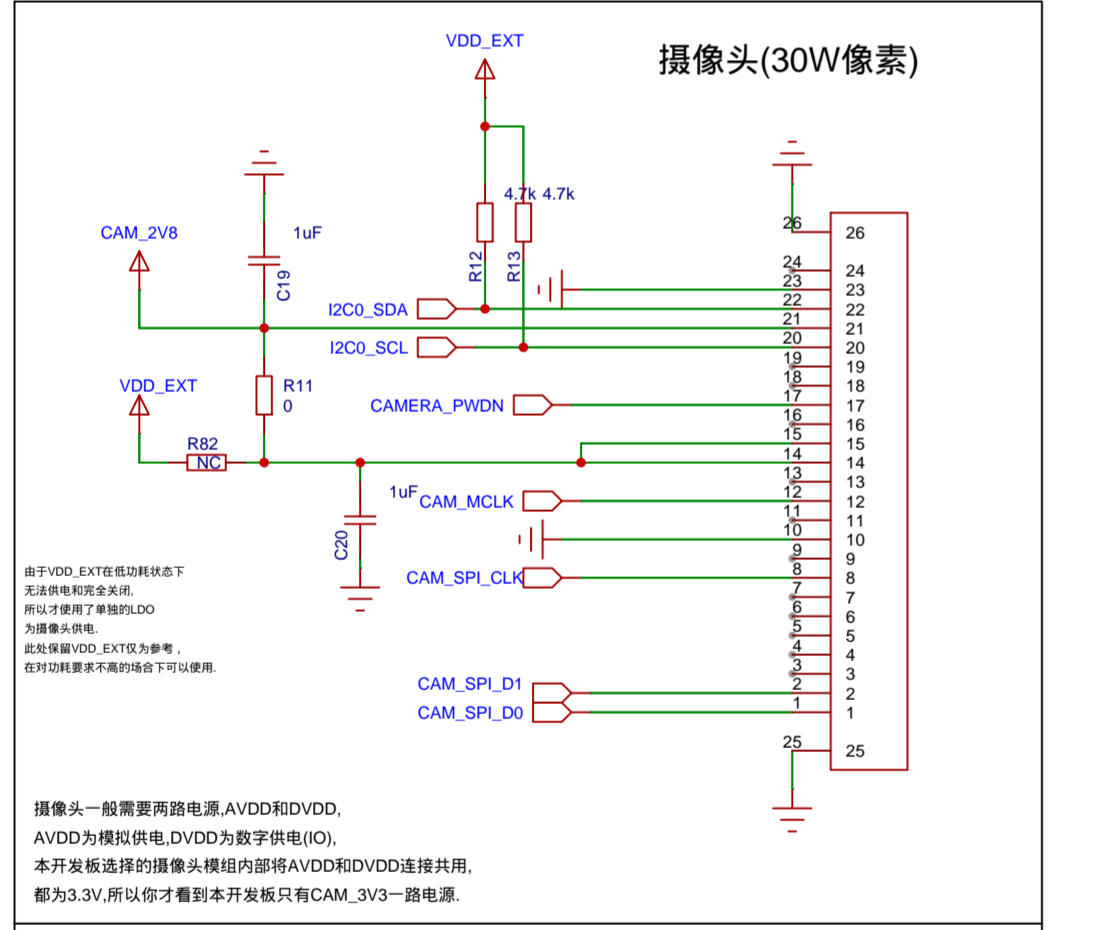
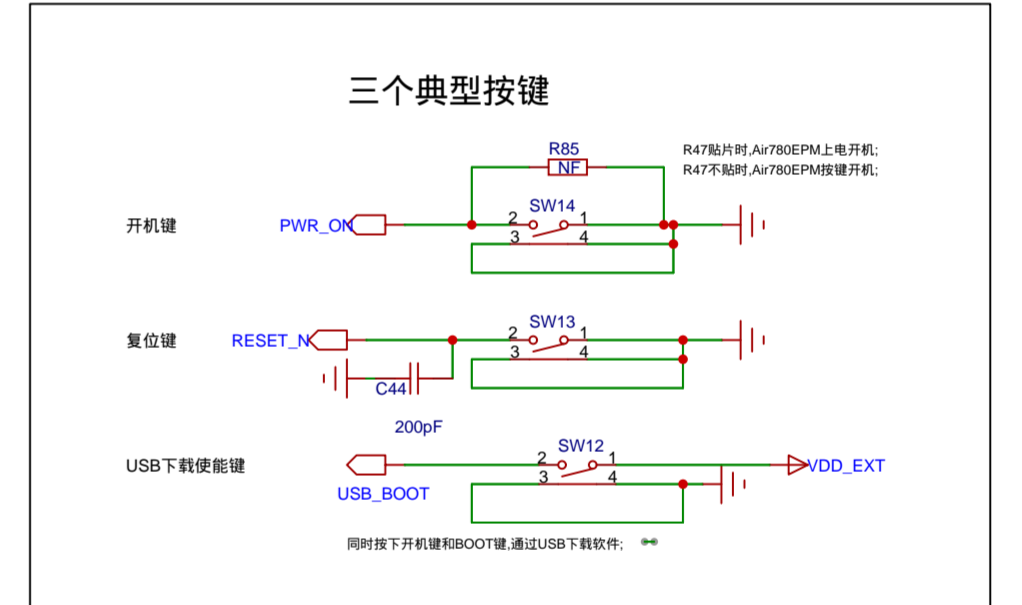
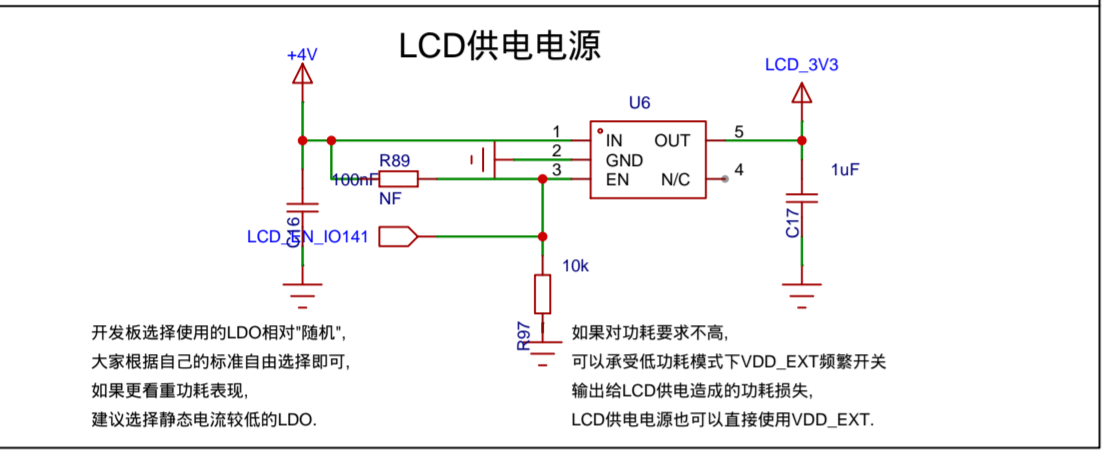
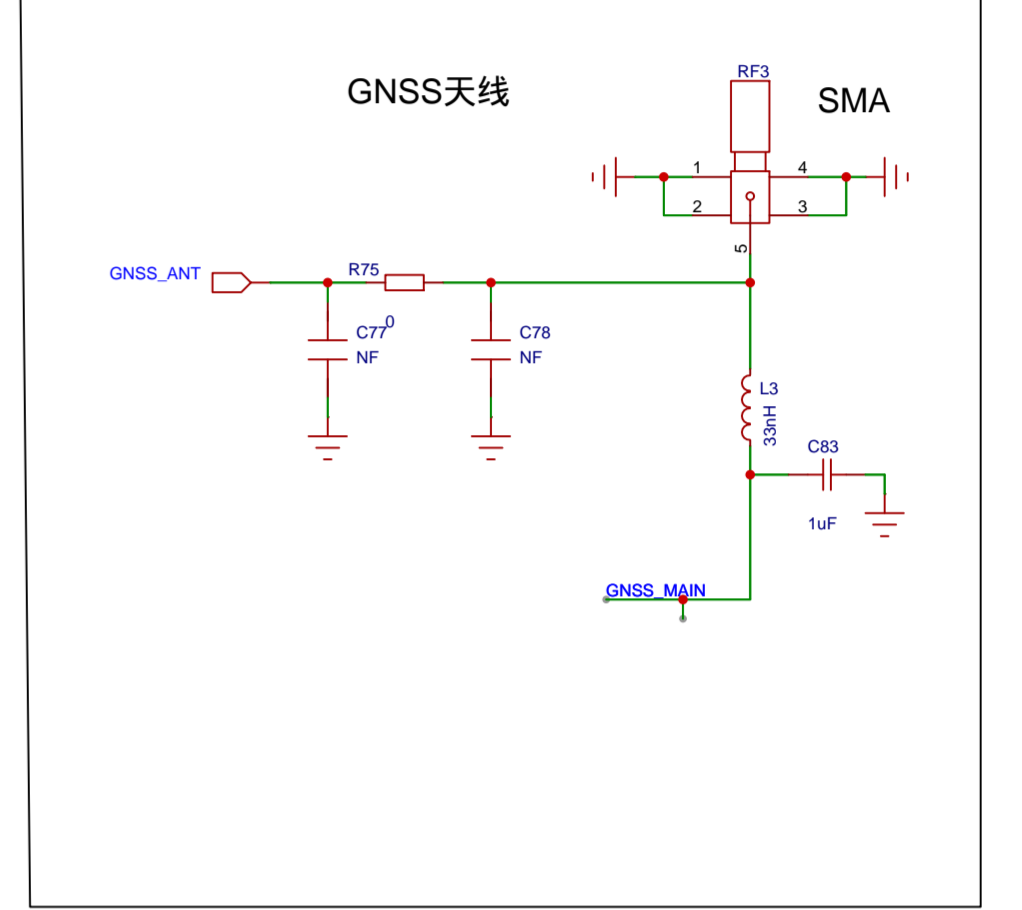
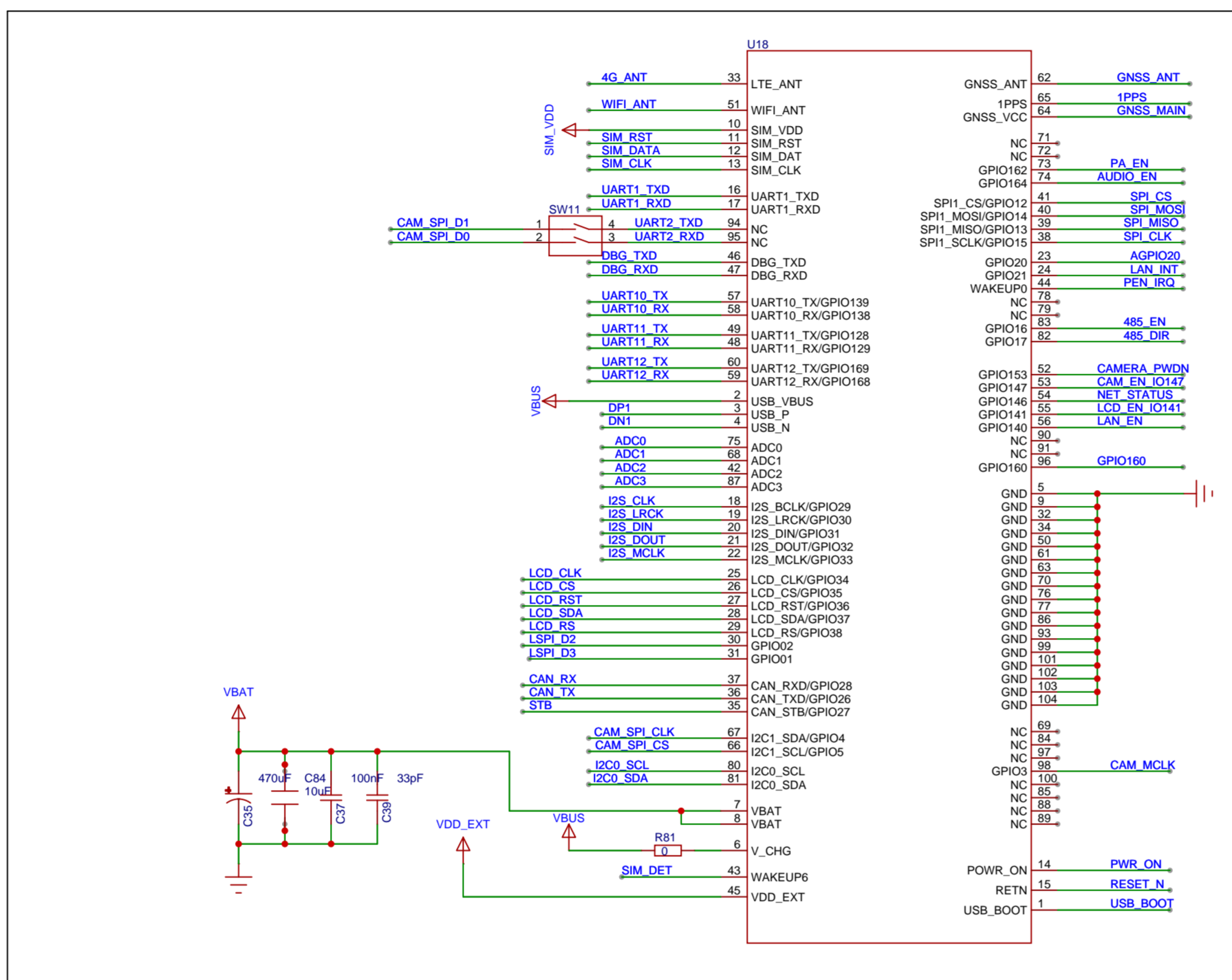
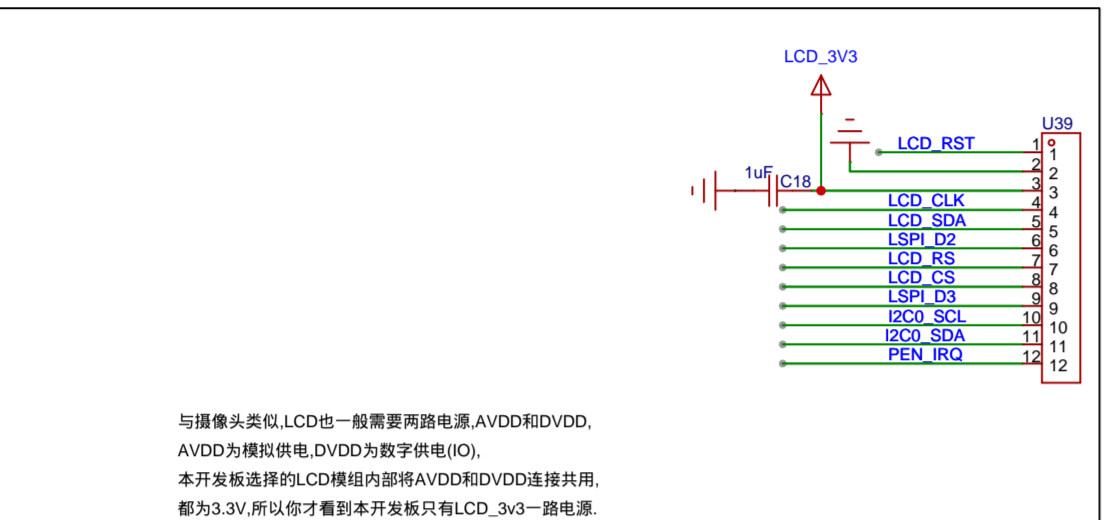
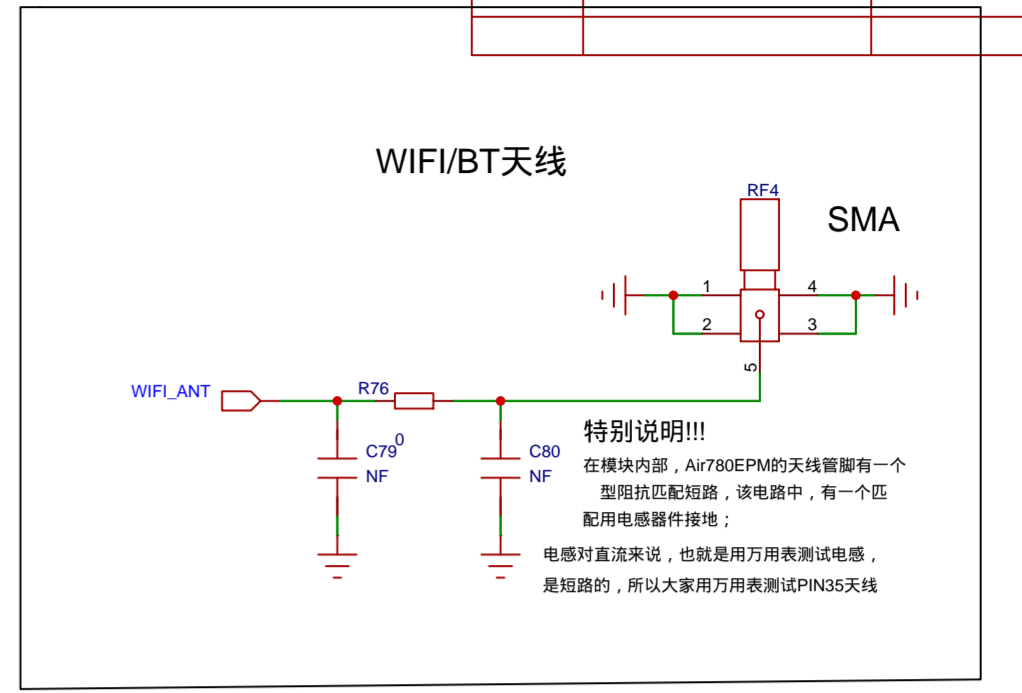
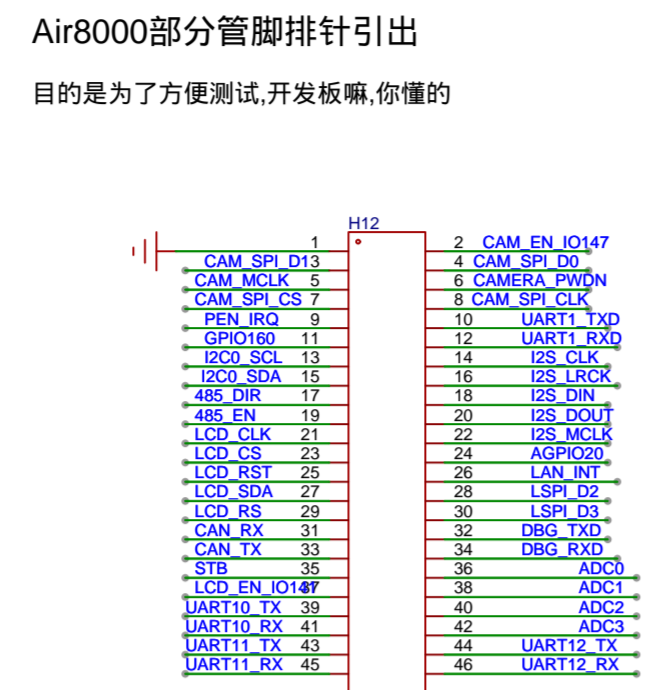
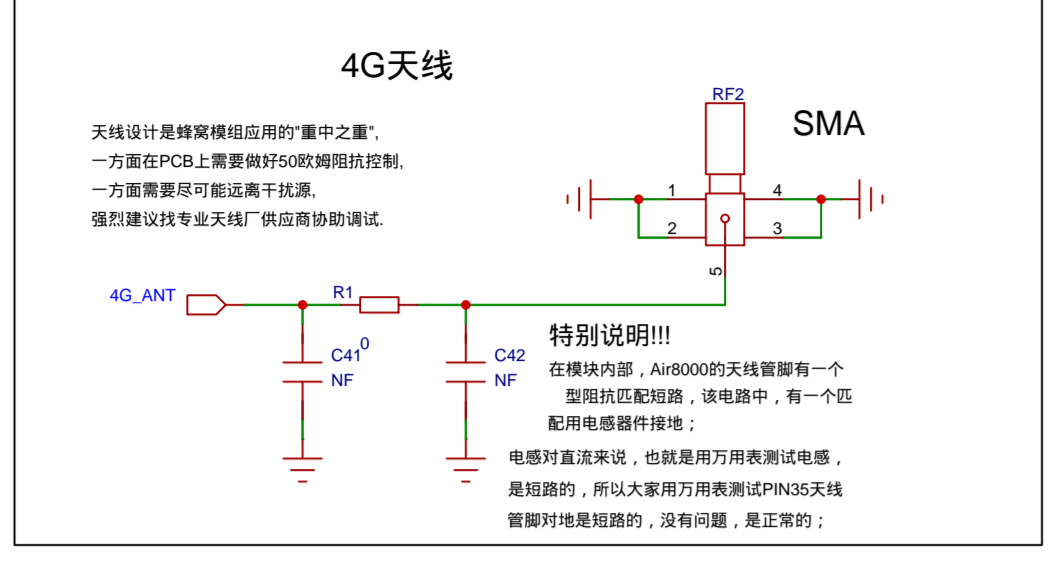


Air8000开发板/参考设计

REVISION RECORD			
LT#	ECO NO.	APPROVED	DATE

- 1.本原理图为合宙Air8000官方开发板原理图;
- 2.大家也可以直接拿开发板作为参考原理图使用;
- 3.由于是开发板原理图,所以做了一些冗余设计,不需要可忽略;
- 4.典型外设上,比如LCD,请根据自己选择的型号进行设计;
- 5.Air8000 LuatOS二次开发,尤其是GPIO的使用,请务必先看Docs资料;
- 6.GPIO使用注意事项:
<https://docs.openluat.com/air8000/luatos/hardware/design/gpio/>
- 7.更多资料,参见Docs资料连接 www.air8000.cn
- 8.与合宙其它Air780E系列不太一样处理的地方是, Air8000默认IO电平(VDD_EXT)改为了3.3V,不再是1.8V,更方便绝大部分场景下的使用;
- 9.注意!共两页!第二页是以以太网(RJ45)和CAN接口参考设计,不要忘记打开;

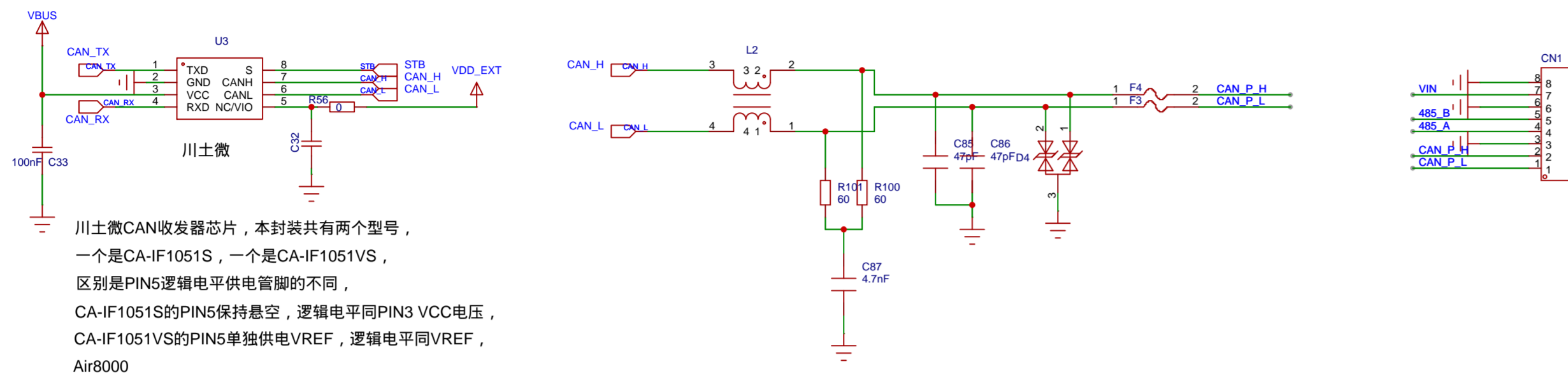
必读!必读!必读!



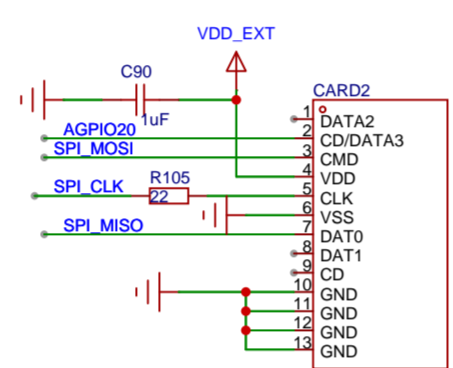
COMPANY:	合宙LuatOS		
TITLE:	Air780EPM开发板		
DRAWN:	ZhuPingjun	DATE:	2025-1-11
CHECKED:	laolu	DATE:	2025-1-12
QUALITY CONTROL:	laolu	DATE:	2025-1-12
RELEASED:	laolu	DATE:	2025-1-12
CODE:	laolu	SIZE:	A1
DRAWING NO:	2025-2-14	REV:	4
SCALE:	G	SHEET:	01/2

REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE

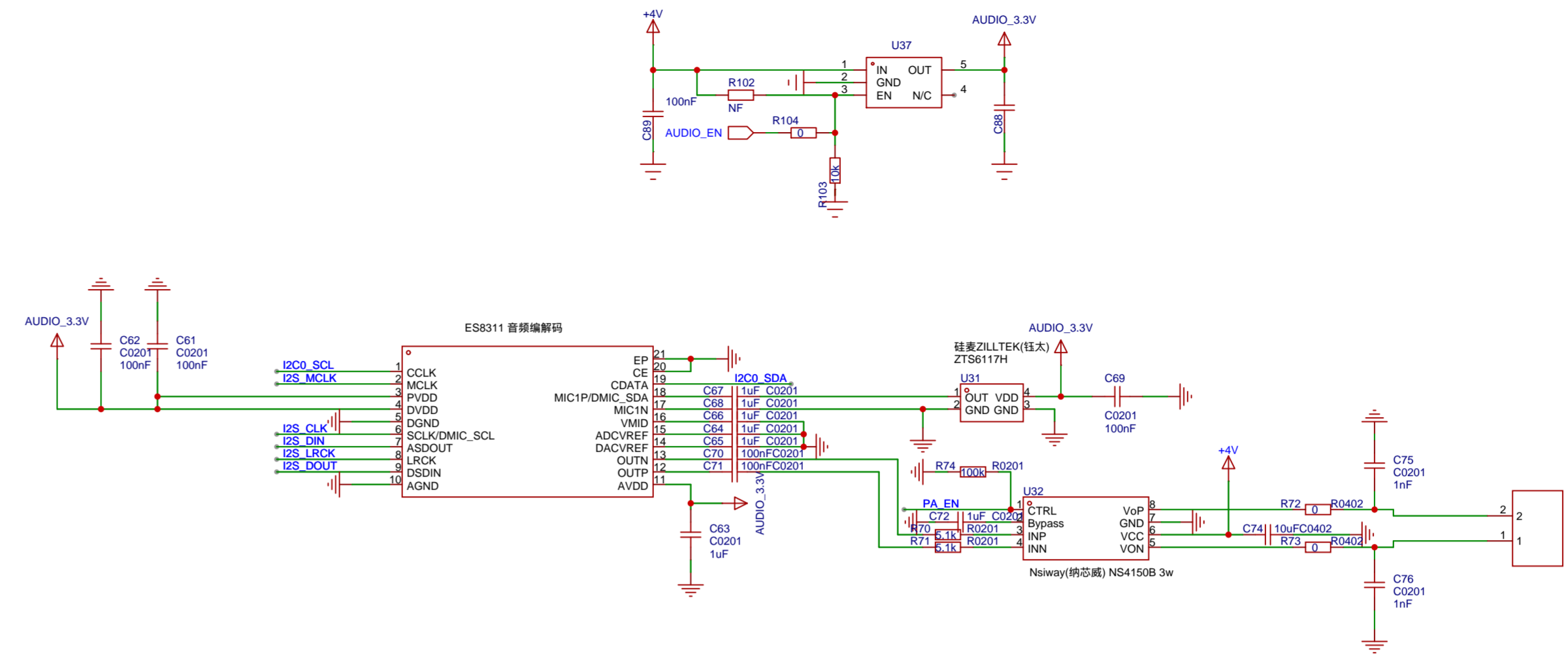
CAN接口



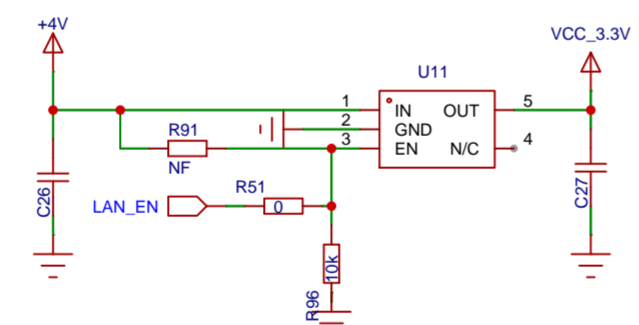
右侧U9是实现电平转换的芯片，左侧Q1是实现电平转换的分立电路，当CAN收发器使用CA-IF1051VS型号时，电平转换电路时不需要的，之所以保留只是为了“参考”，大家根据自己的实际情况选择。



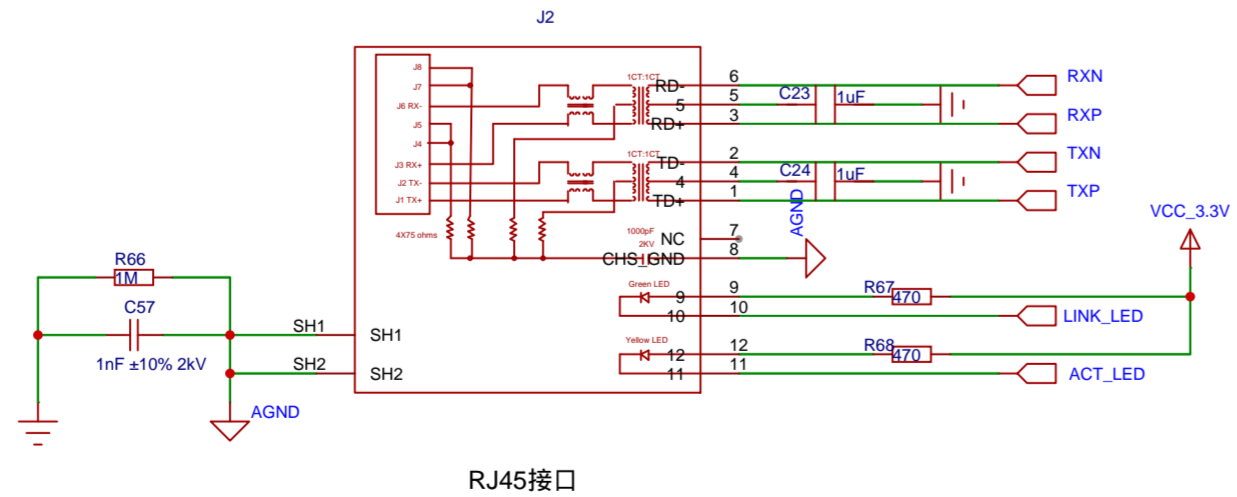
音频



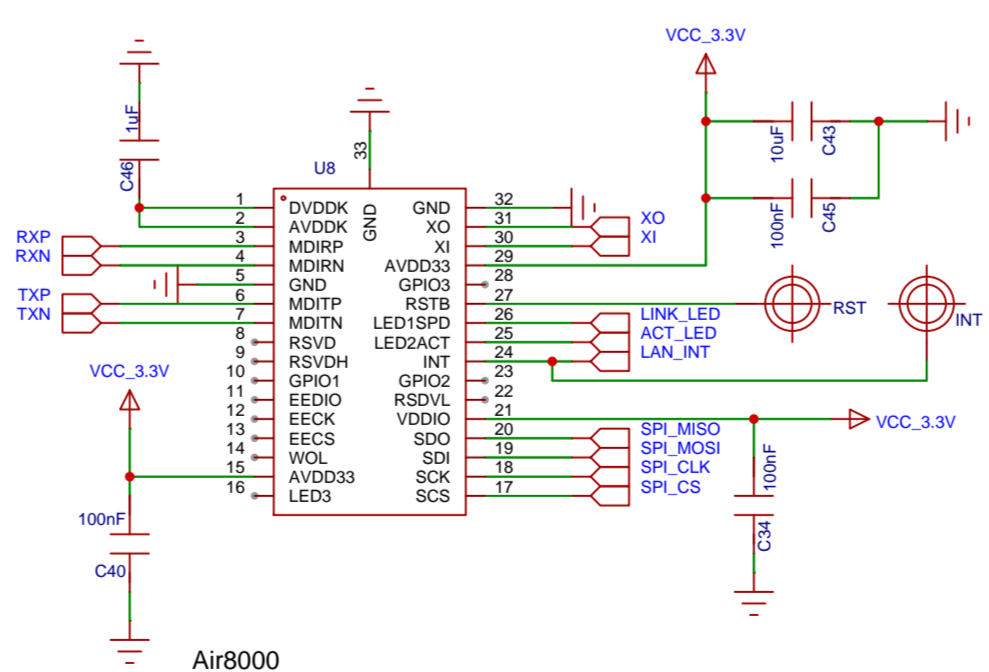
以太网RJ45网口



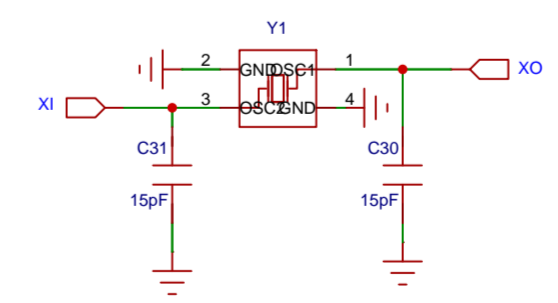
开发板选择使用的LDO相对“随机”，大家根据自己的标准自由选择型号和供应商即可。



RJ45接口



Air8000
沁恒CH390D也可以，封装不同，软件相同。



CH390H用25MHz晶体

COMPANY:		合宙LuatOS		
TITLE:		Air780EPM开发板		
DRAWN:	ZhuPingjun	DATED:	2025-1-11	
CHECKED:	laolu	DATED:	2025-1-12	
QUALITY CONTROL:	laolu	DATED:	2025-1-12	
RELEASED:	laolu	DATED:	2025-1-12	
CODE:	SIZE:	DRAWING NO:	REV:	
laolu	A1	2025-2-14	4	
SCALE:	G	SHEET:	02	2