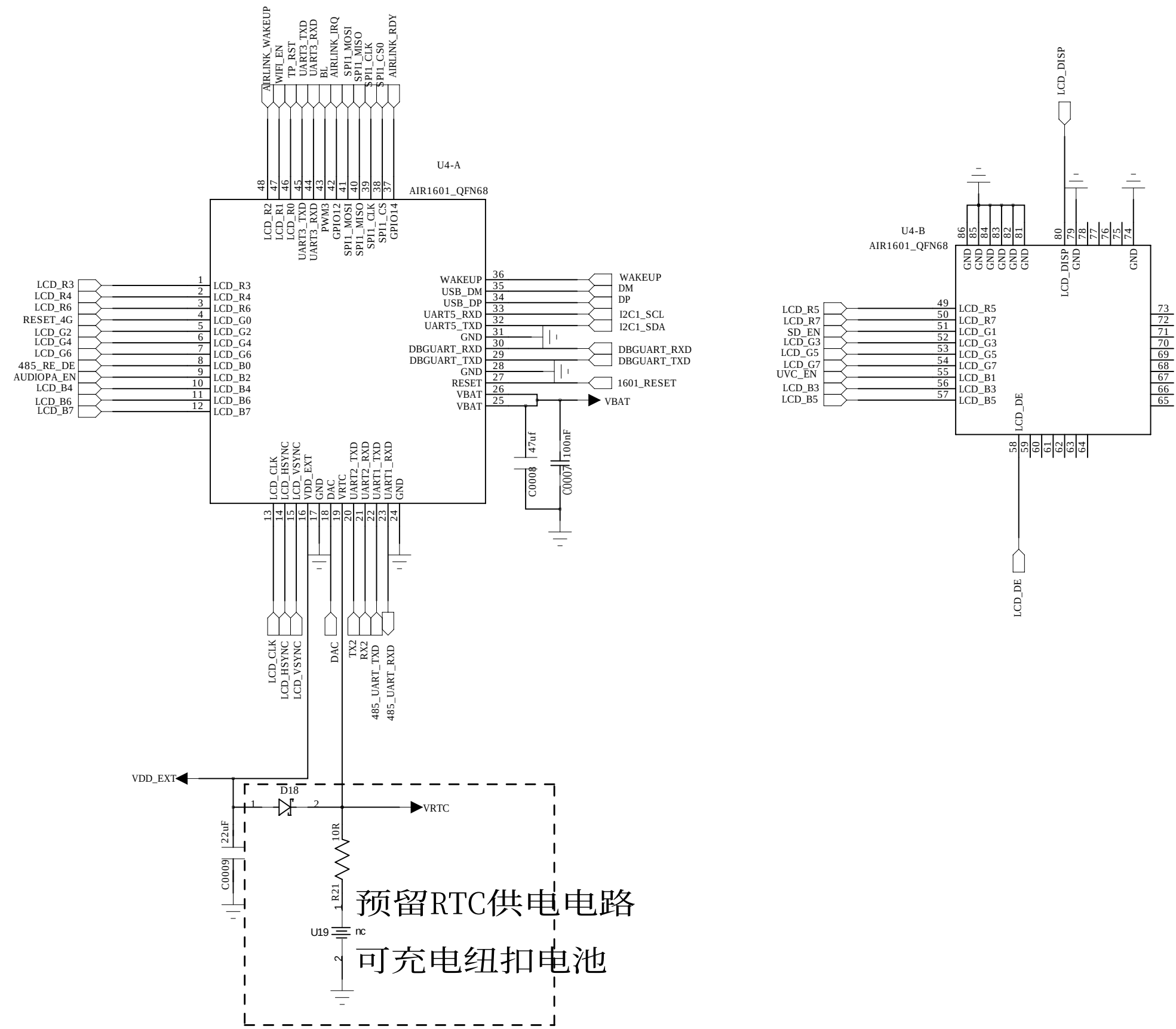
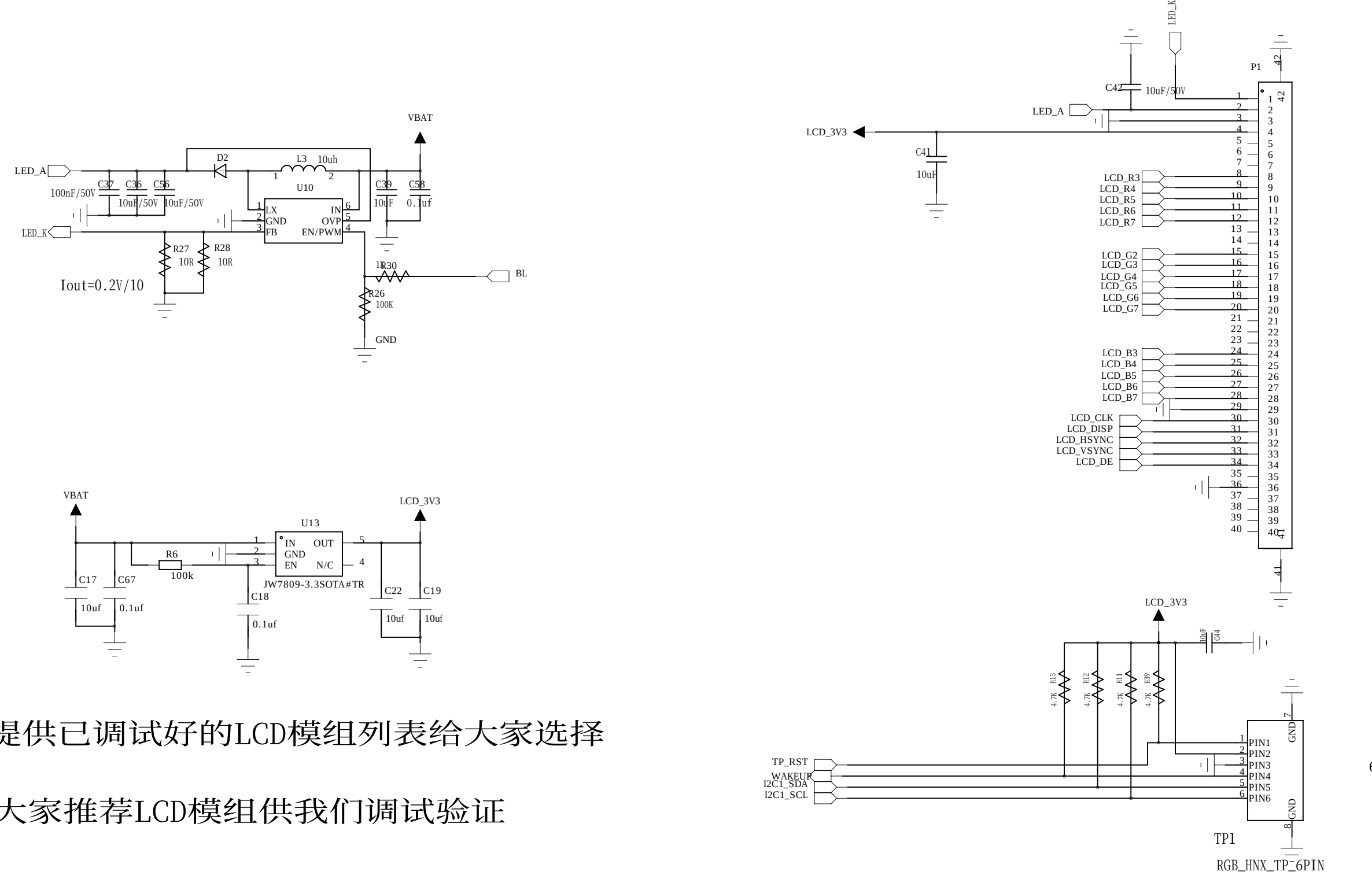


REVISION RECORD			
DATE	REV	DESCRIPTION	BY

Air1601开发板



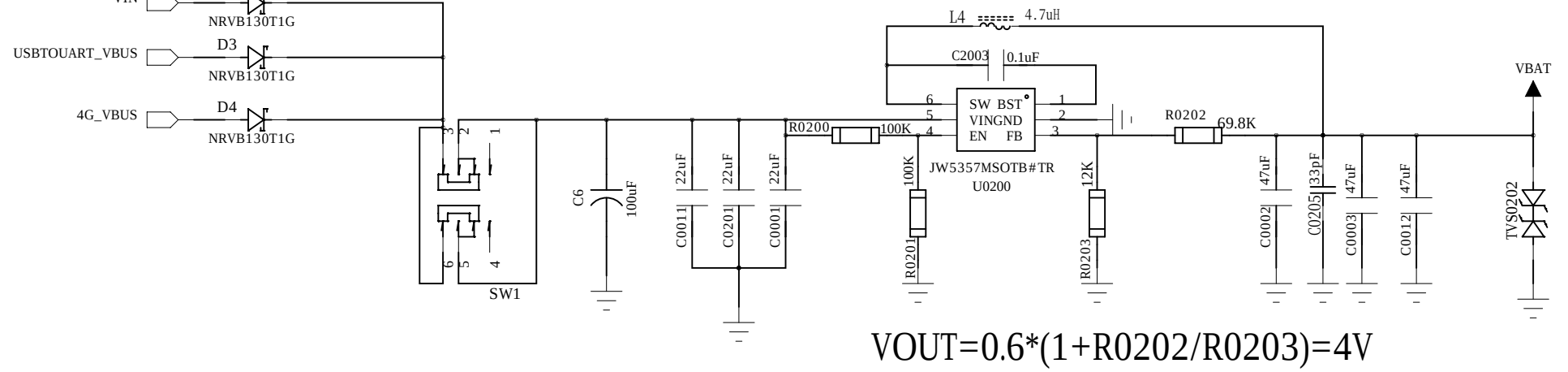
LCD接口



合宙会提供已调试好的LCD模组列表给大家选择
也欢迎大家推荐LCD模组供我们调试验证

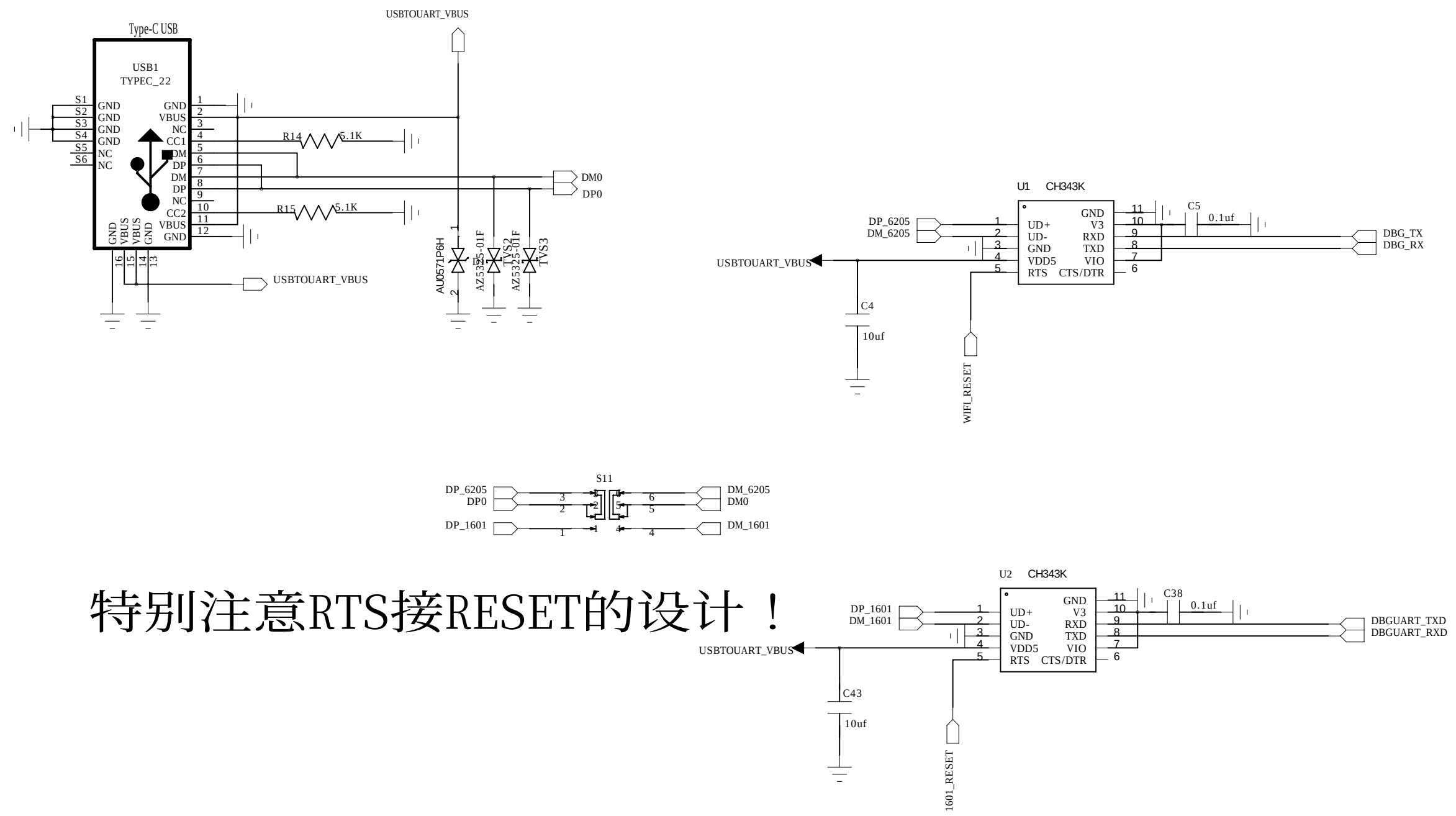
DC-DC 方案

下图是DCDC开关电源的参考设计，采用的是杰华特公司的JW5357开关电源芯片，它的最大输出电流在3A，同时输入电压范围4.5V~18V
注意C47的选型要根据输入电压来选择耐压值。



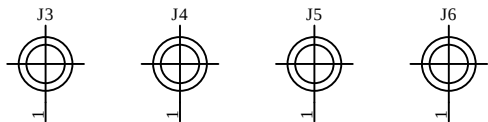
Air1601的VBAT供电范围3.3V-4.35V
Air1601内置3.3V LD0为芯片供电
此LD0即为PIN16：VDD_EXT

USB to UART 下载电路



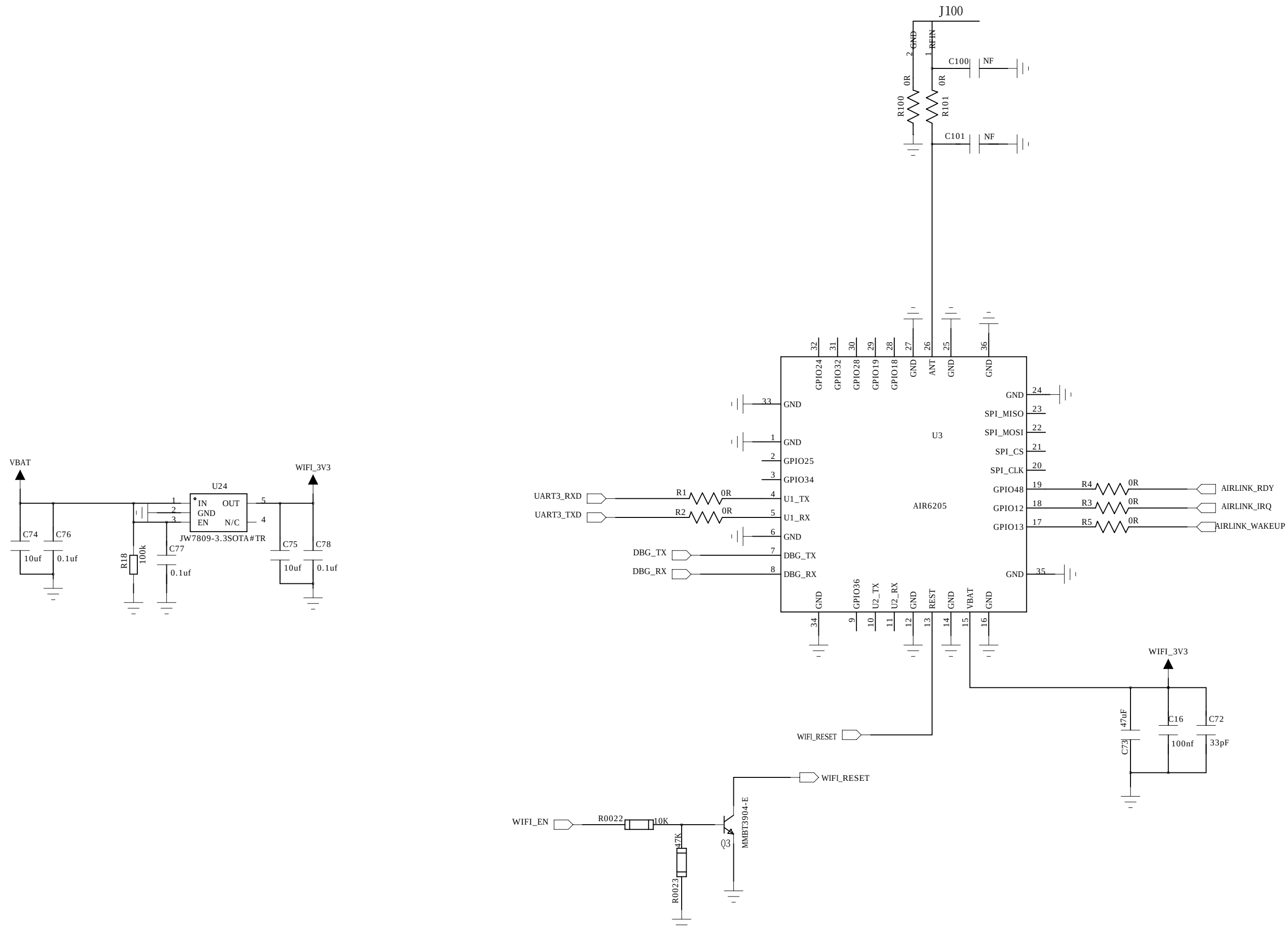
特别注意RTS接RESET的设计！

螺丝孔



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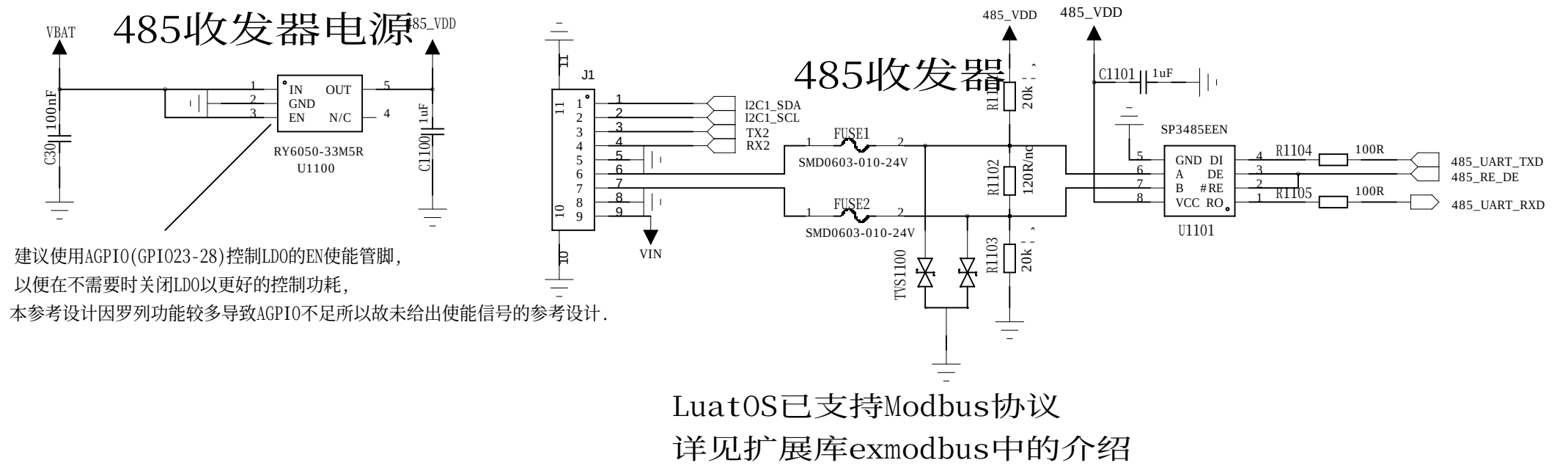
REVISION RECORD			
LT#	ECO NO.	APPROVED	DATE



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REVISION RECORD			
LT#	ECO NO.	APPROVED	DATE

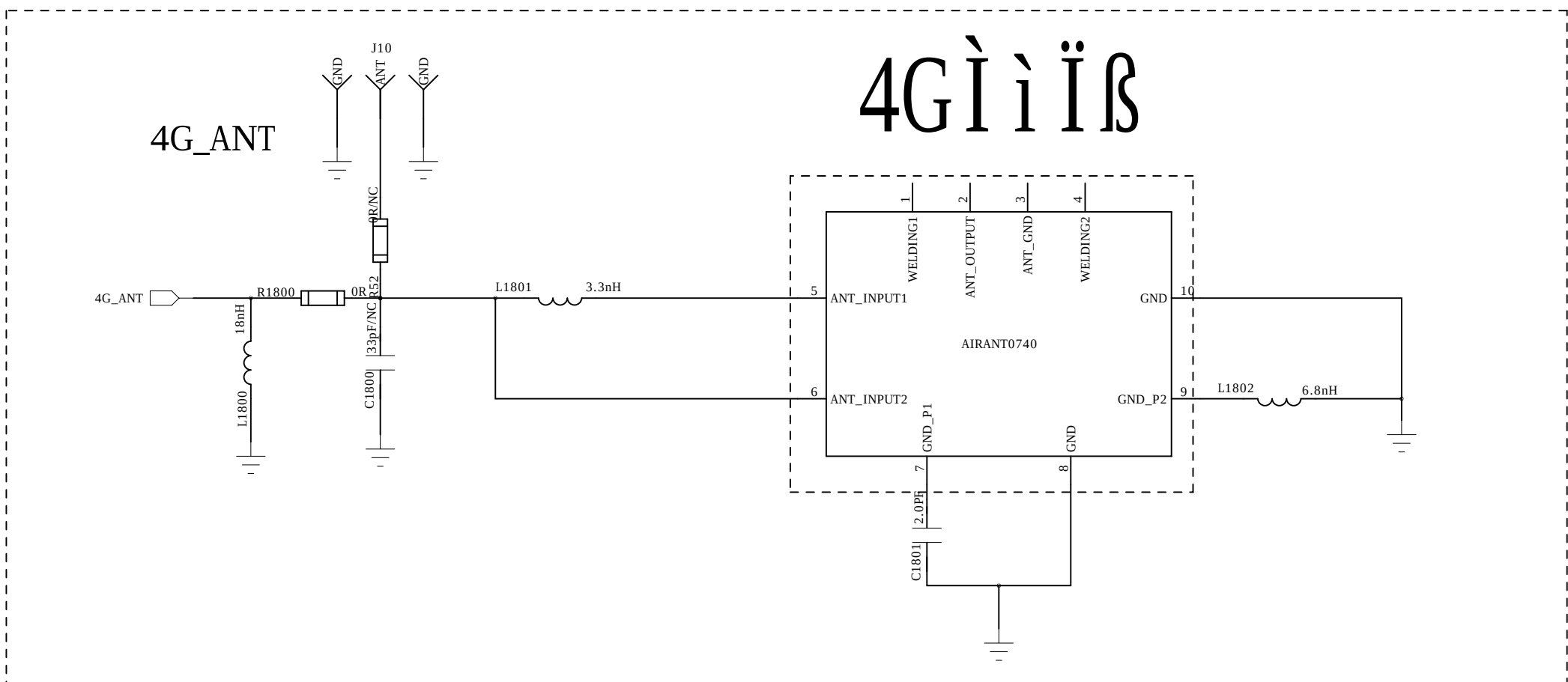
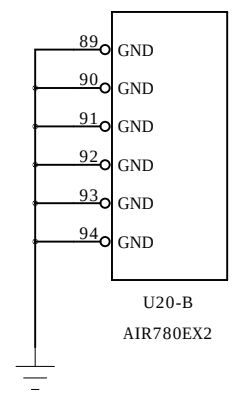
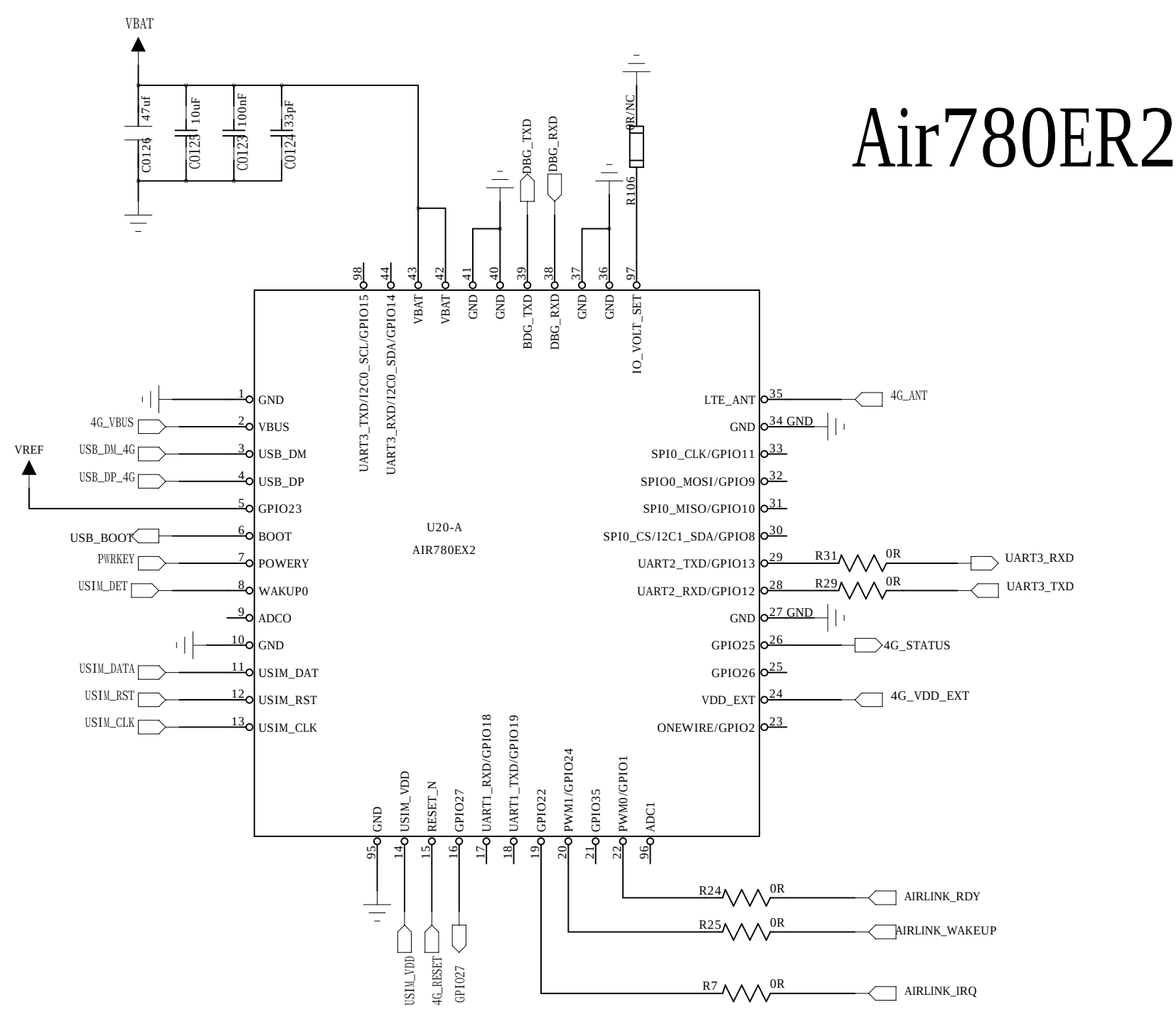
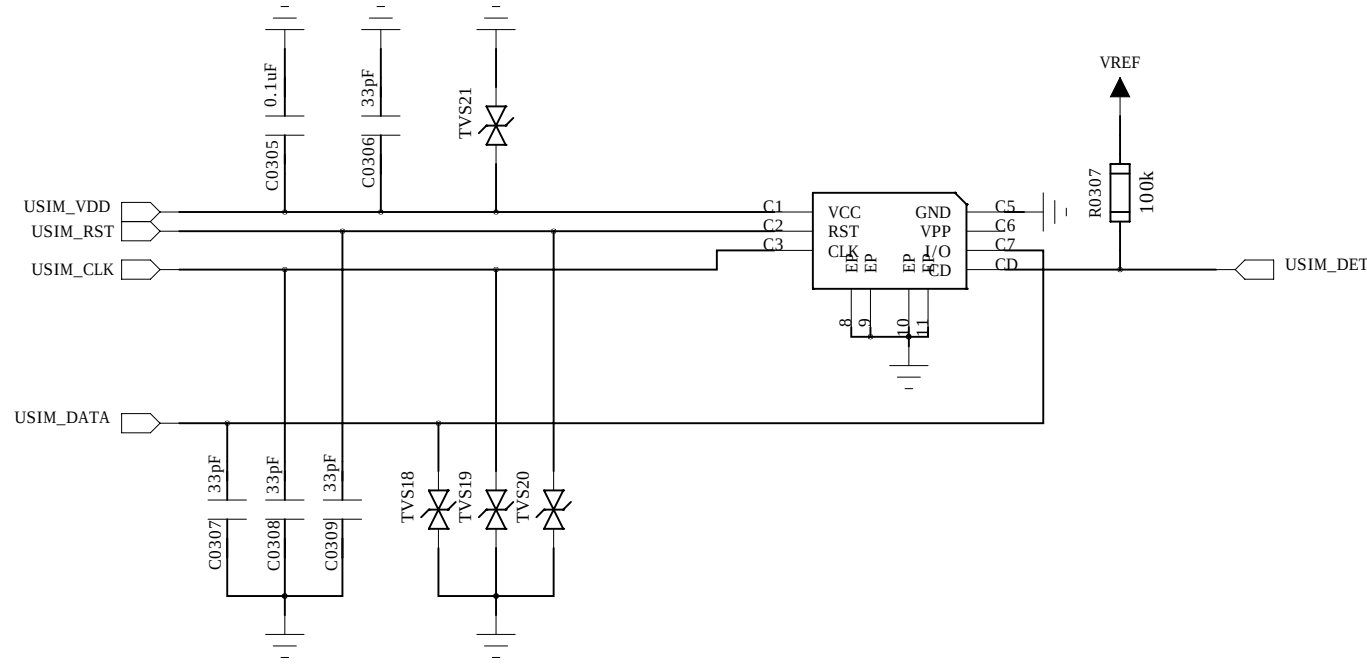
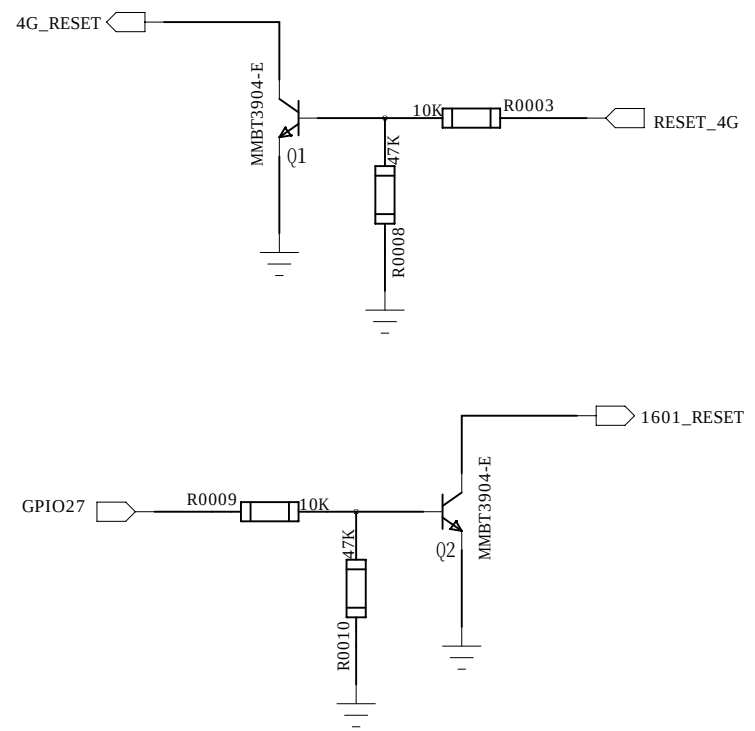
UART TO 485



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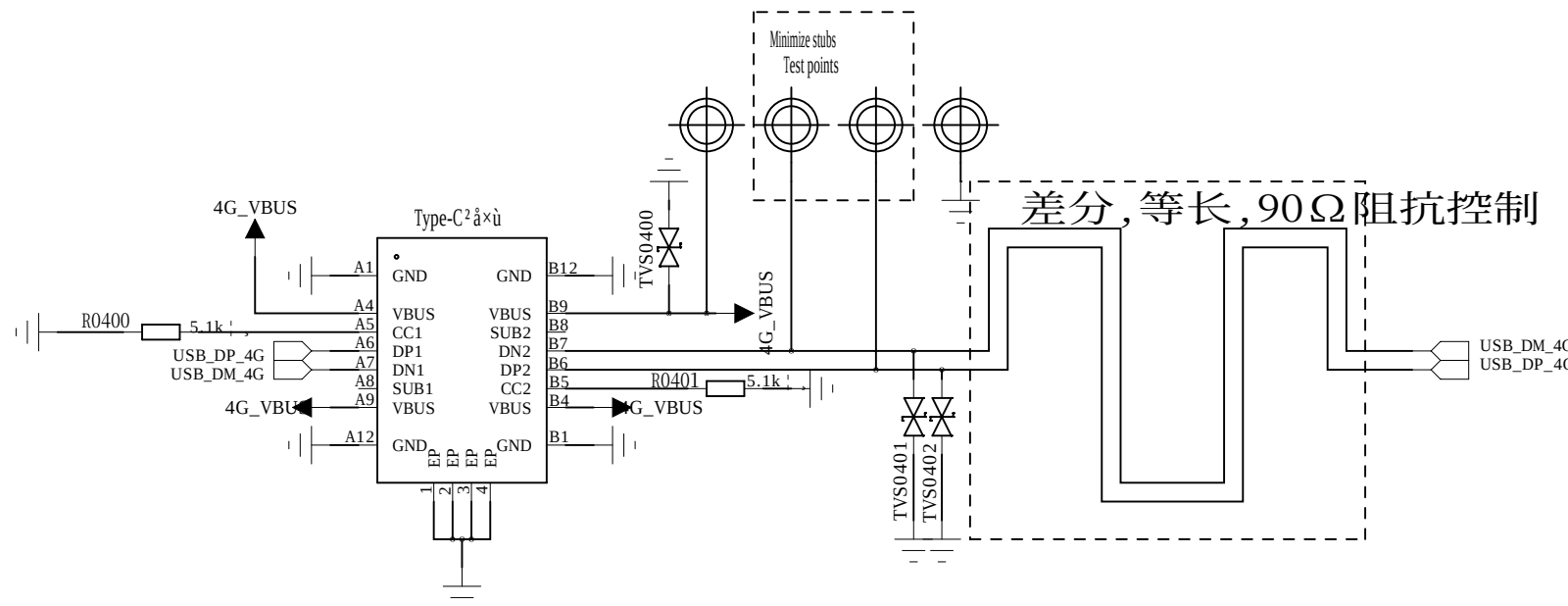
REVISION RECORD			
LTB	ECO NO.	APPROVED	DATE

互为看门狗



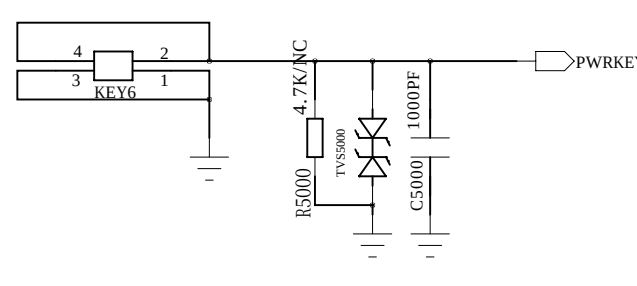
- 1, 本参考设计使用的是合宙贴片式PCB天线:AirANT4073, 尺寸40*7*3mm;
- 2, 合宙还有多款尺寸不同、封装各异的贴片式PCB天线可供选择;
- 3, 匹配电路已调试好, PCB封装(含匹配电路)已做成标准封装, 欢迎咨询;

USB

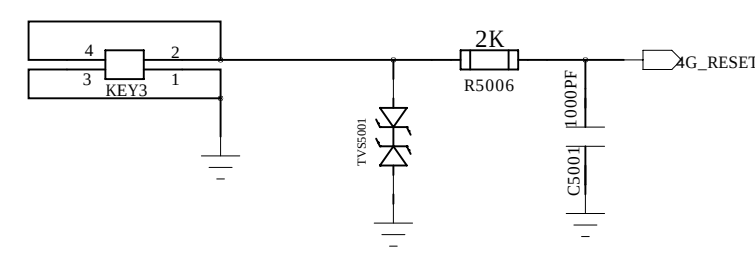


1. USB走线需要严格按照差分线控制, 做到平行和等长;
2. USB走线的阻抗需要控制到差分90欧姆;
3. 需要尽可能的减少USB走线的stubs, 减少信号反射; USB信号的测试点最好直接放在走线上以减少stub
4. 在靠近USB连接器或者测试点的地方添加TVS保护管, 由于USB的速率较高, 需保证选用的TVS保护管的寄生电容小于1pF
5. VBUS作为USB插入检测, 必须连接USB电源或者外接电源, 否则USB无法被检测到, VBUS的检测电压要大于3.3V

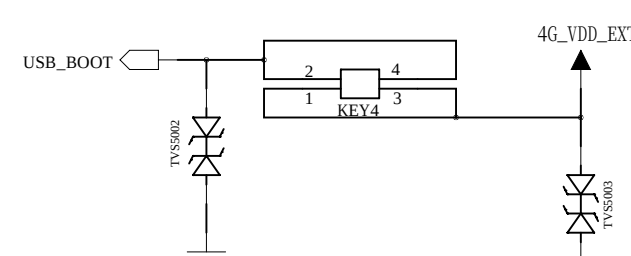
按键开机



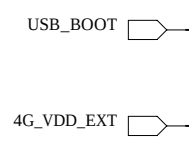
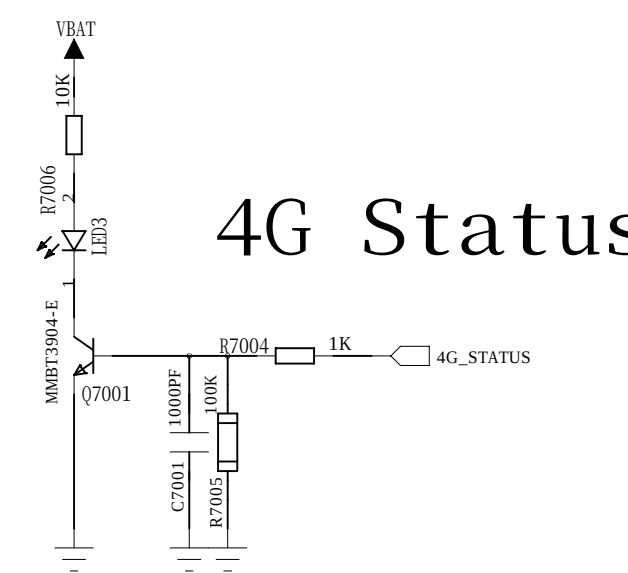
RESET_N 复位



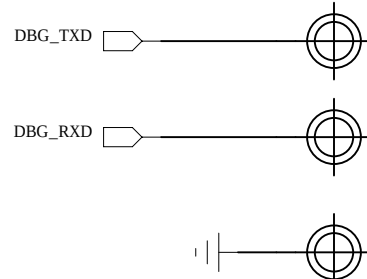
USB下载使能



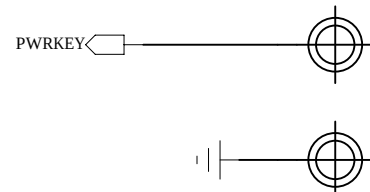
4G Status



USB_DOWNLOAD 在开机过程中拉高可以进入USB下载模式
建议预留测试点



DGB_UART, 也常备称为UART0, 用作底层日志的抓取
波特率921600bps, 不可更改
不可作为通用UART使用



开机键测试点, 设计批量升级夹具时会用到



VBAT供电测试点, 设计批量升级夹具时会用到

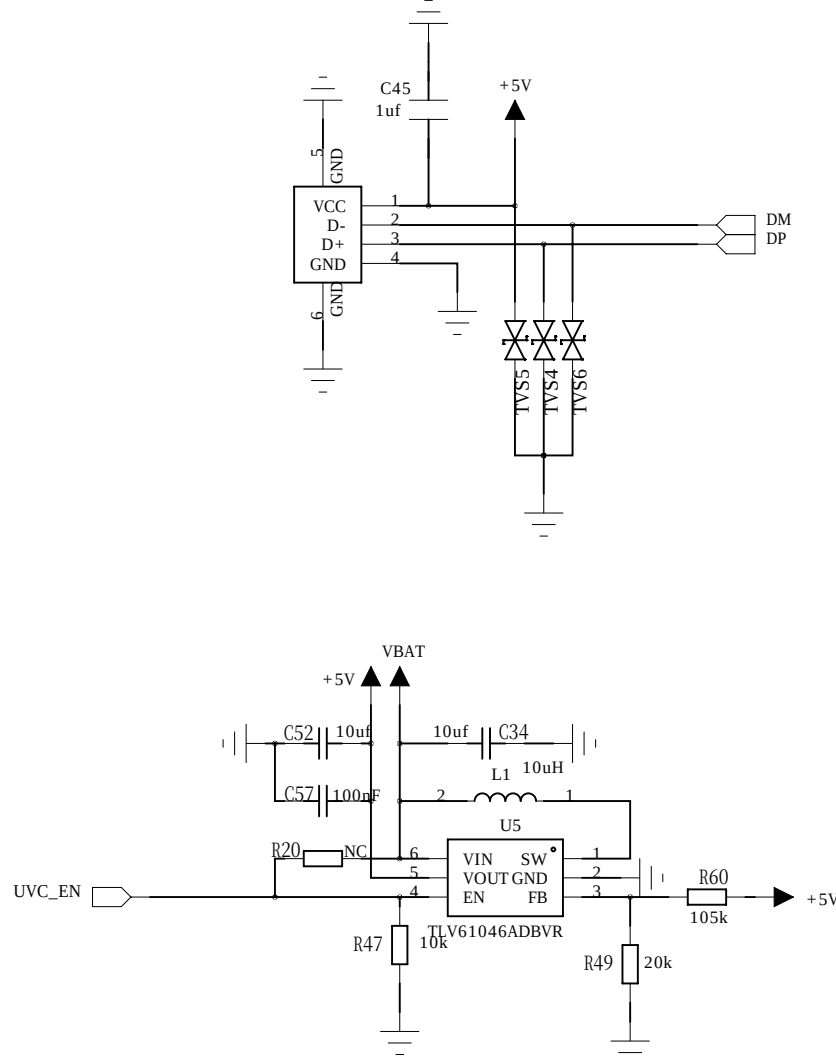
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DRAWING NO. A0<Drawing Number>
REV. 7

SHEET 6 OF 7

REVISION RECORD			
LT#	ECO NO.	APPROVED	DATE

USB HOST 之 UVC



UVC摄像头

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RELEASED: <Released By>	DATED: <Release Date>	Base #Scale >		SHEET: 7 OF 7	