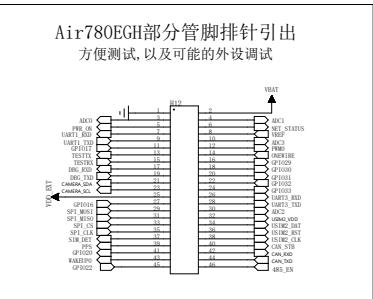
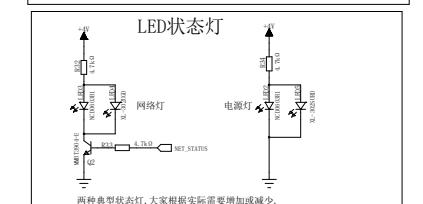
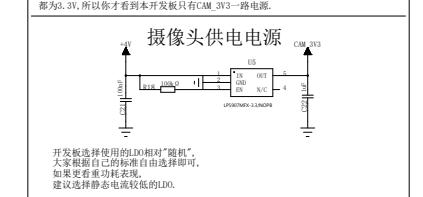
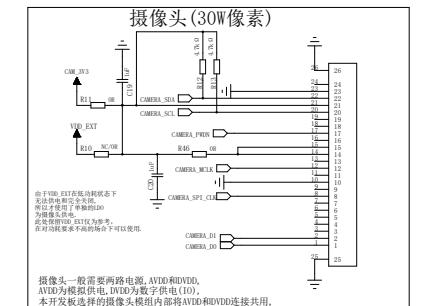
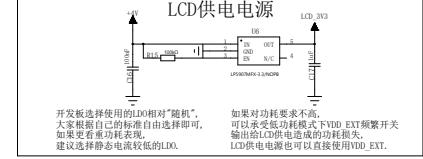
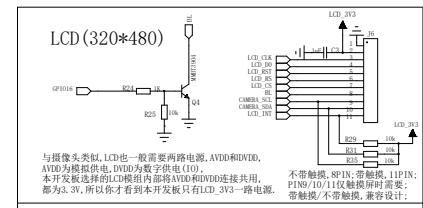
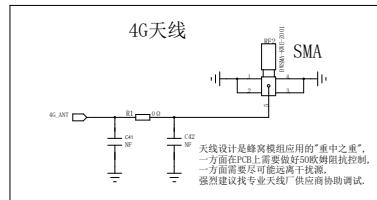
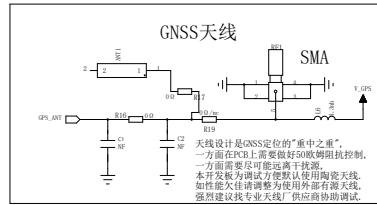


Air780EGH开发板/参考设计

REVISION RECORD			
LTR	ECN NO.	APPROVED	DATE

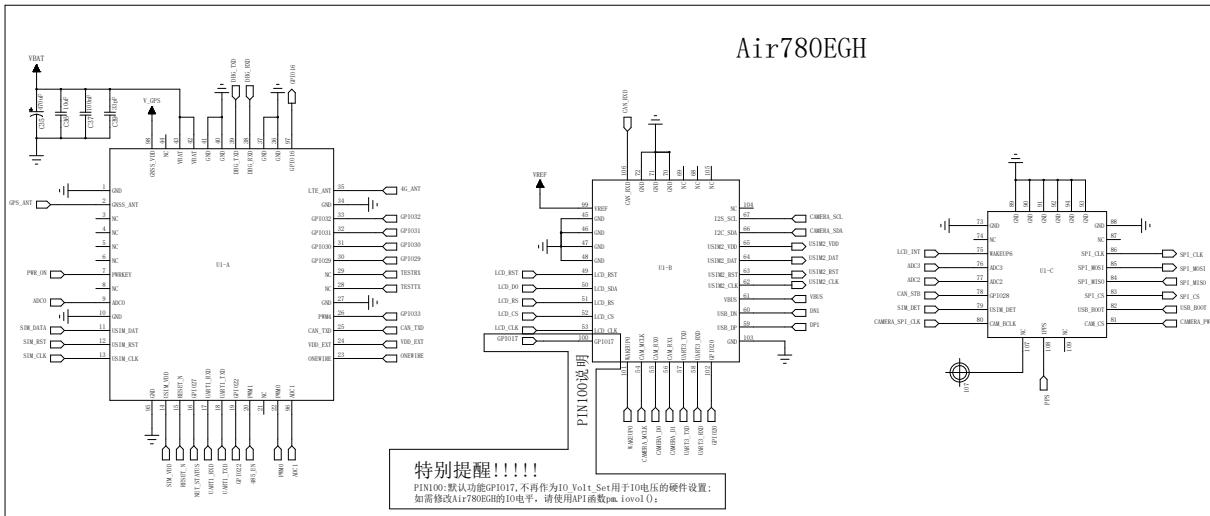


必读！必读！必读！

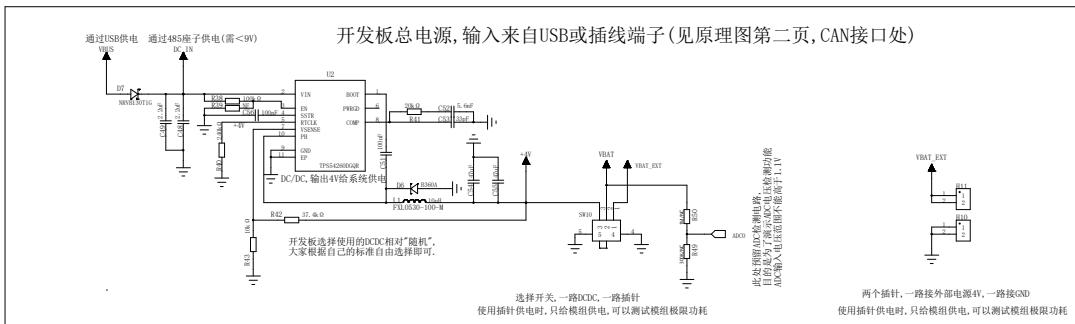
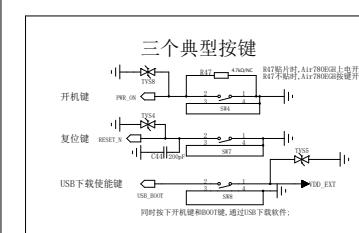
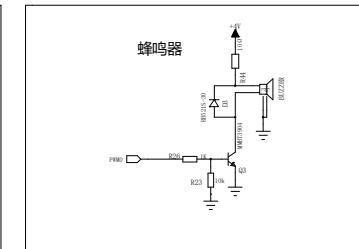
- 1, 本原理图为合宙Air780EGH官方开发板原理图；
- 2, 大家也可以直接拿开发板作为参考原理图使用；
- 3, 由于是开发板原理图，所以做了一些冗余设计，比如多个LDO单独供电，不需要可忽略；
- 4, 典型外设上，比如LCD，请根据自己选择的型号进行设计；
- 5, Air780EGH二次开发，尤其是GPIO的使用，请务必先看Docs资料；
- 6, GPIO使用注意事项：
<https://docs.openluat.com/air780egh/luatos/hardware/design/gpio/>

7, 更多资料，参见Docs资料连接 www.air780egh.cn

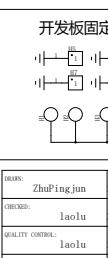
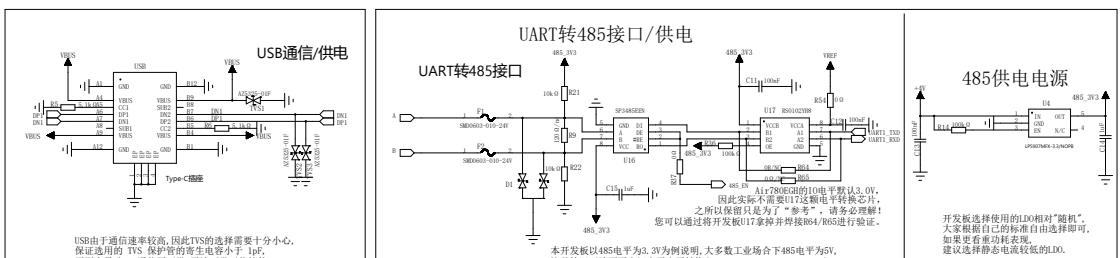
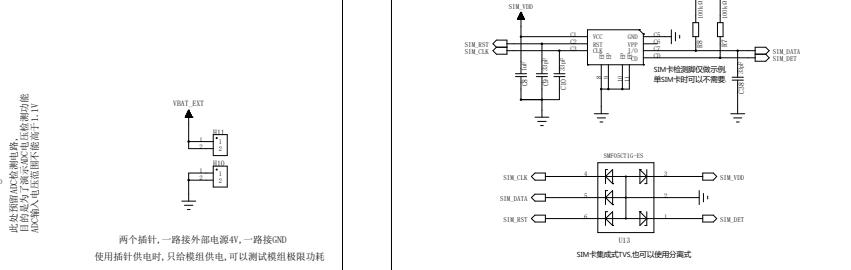
- 8, 与合宙其它Air780E系列不太一样的地方是，Air780EGH/EPM/EHM/EHV默认IO电平(VDD_EXT)改为了3.0V，不再是1.8V，更方便绝大部分场景下的使用；如需修改，请用API函数pm.iovol(), PIN100不再作为IO_Volt_Set使用；
- 9, 注意！共两页！第二页是以太网(RJ45)和CAN接口参考设计，不要忘记打开；



Air780EGH



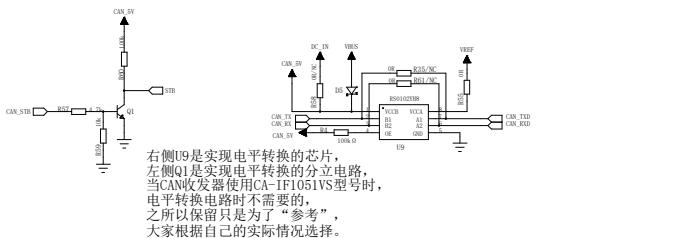
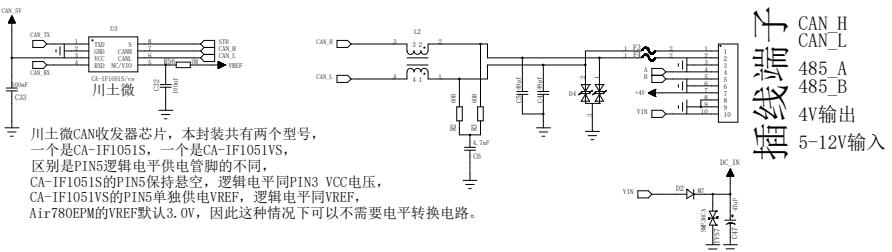
开发板总电源输入来自USB或插线端子(见原理图第二页, CAN接口处)



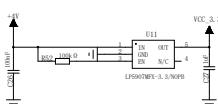
COMPANY: 合宙LuatOS
TITLE: Air780EGH开发板
DRAWING NO.: A1
REV.: 4
DRAFTED: ZhuPingjun 2025-5-28
CHECKED: laolu 2025-6-1
QUALITY CONTROL: laolu 2025-6-1
RELEASED: laolu 2025-6-1
SCALE: 6
SHEET: 1 OF 2

REVISION RECORD			
REV	ECN NO.	APPROVED	DATE

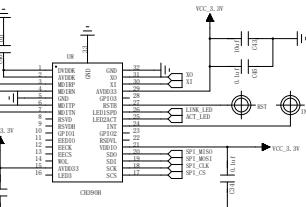
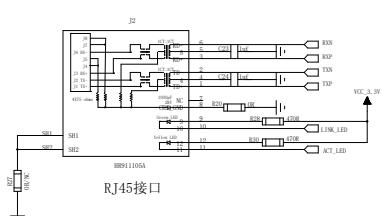
CAN接口



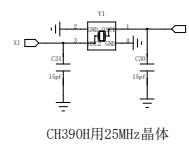
以太网RJ45网口



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。



合宙Air780EGH开发板使用的是沁恒CH390H，沁恒CH380D也可以，封装不同，软件相同。



COMPANY:		合宙LuatOS			
TITLE:					
Air780EGH开发板					
DRAWN:	ZhuPing jun	DATUM:	2025-5-28		
CHECKED:	laolu	DATUM:	2025-6-1		
QUALITY CONTROL:	laolu	DATUM:	2025-6-1		
RELEASED:	laolu	DATUM:	2025-6-1		
SCALE:	G	REV:	4		
CODE:		SIZE:	DRAWING NO:		
laolu		A1	2025-6-1		
SCALE:		6	SHEET 2 OF 2		