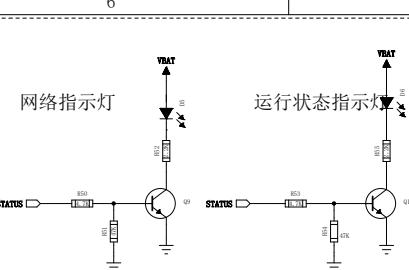
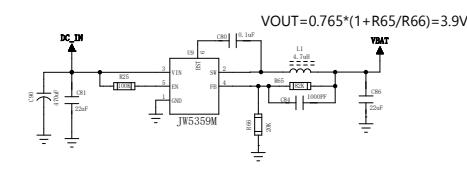


LED



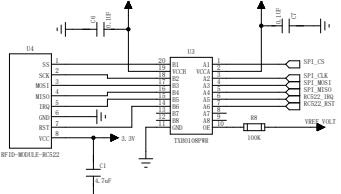
POWER



DCDC开关电源供电设计指导以及选型:

<https://docs.openluat.com/air780eg/luatos/hardware/design/power/>

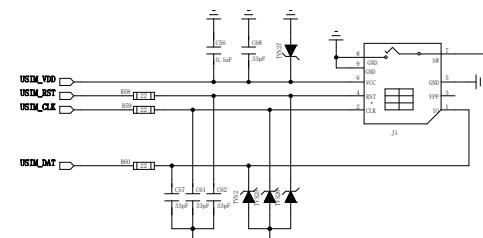
SPI_RFID_RC522

<https://docs.openluat.com/air780e/luatos/hardware/design/adcledi2cspiusb/>

SPI接口示例

- 1,RC522是东莞野火电子推出的一款RFID模块，IO电平3.3V;
- 2,TXB0108PWR是TI公司出品的一款电平转换芯片，将RC522与Air780E实现电平匹配;
- 3,本参考原理图默认Air780E IO电平配置的是1.8V，也就是PIN100未下拉;
- 4,之所以给出外设RC522的原理图，只是为了举例说明Air780E的SPI接口功能;

SIM1 通道



SIM 卡电路很简单，但也有几点需要注意一下

<https://docs.openluat.com/air780eg/luatos/hardware/design/sim/>

5

4

3

2

1

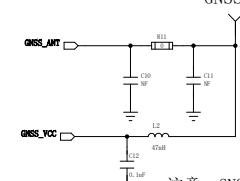
GNSS无源天线



关于GNSS模组天线的一些大白话常识

<https://docs.openluat.com/air780eg/luatos/hardware/design/gnssant/>

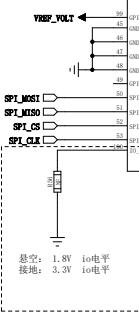
GNSS有源天线



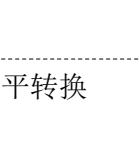
注意: GNSS_VCC仅支持对3.3V有源天线供电

REVISION RECORD			
LTR	ECO NO.	APPROVED:	DATE:

LTE_ANT

悬空: 1.8V 10电平
接地: 3.3V 10电平

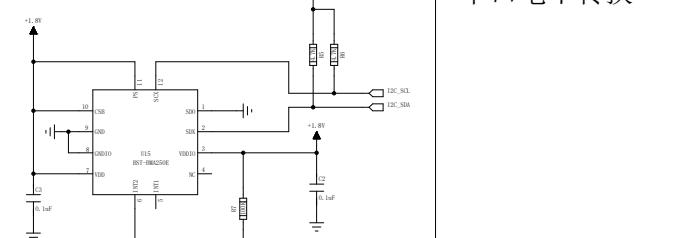
ADC参考电路

ADC脚的电压输入范围为0~1.1V;分辨率12bits。
分压电阻的选择，请根据实际输入电压的大小灵活选择<https://docs.openluat.com/air780eg/luatos/hardware/design/adcledi2cspiusb/>

Air780EG开机以启动及外围电路设计指导:

<https://docs.openluat.com/air780eg/luatos/hardware/design/poweron/>

I2C_SENSOR



I2C接口示例

1,BMA250是博世推出的一款加速度传感器IC，常用于Tracker产品的振动检测功能;
2,之所以给出外设BMA250的原理图，只是为了举例说明Air780E的I2C接口功能;

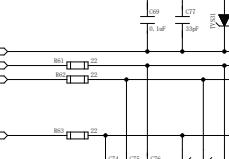
串口电平转换



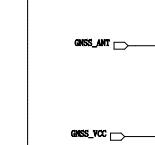
Air780EG模块串口设计硬件指导:

<https://docs.openluat.com/air780eg/luatos/hardware/design/uart/>

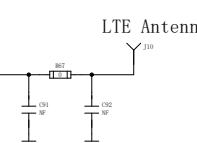
LTE Antenna



GNSS_Antenna



推荐预留PI型匹配电路



关于蜂窝模组天线的一些大白话常识

<https://docs.openluat.com/air780eg/at/hardware/design/4gant/>

COMPANY:	上海合宙		
TITLE:	Air780EG用于LuatOS开放方式的参考设计		
DRAWING NO.:	JJ	DATED:	2024-11-10
CHECKED:	laolu	DATED:	2024-11-11
QUALITY CONTROL:	laolu	DATED:	2024-11-11
RELEASED:	laolu	DATED:	2024-11-11
SHEET:	G2	REV.:	1
	1 OF 2		

