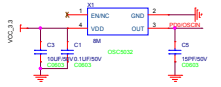
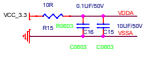
系统板卡及频率全通过 SD卡 中的配置文件识别

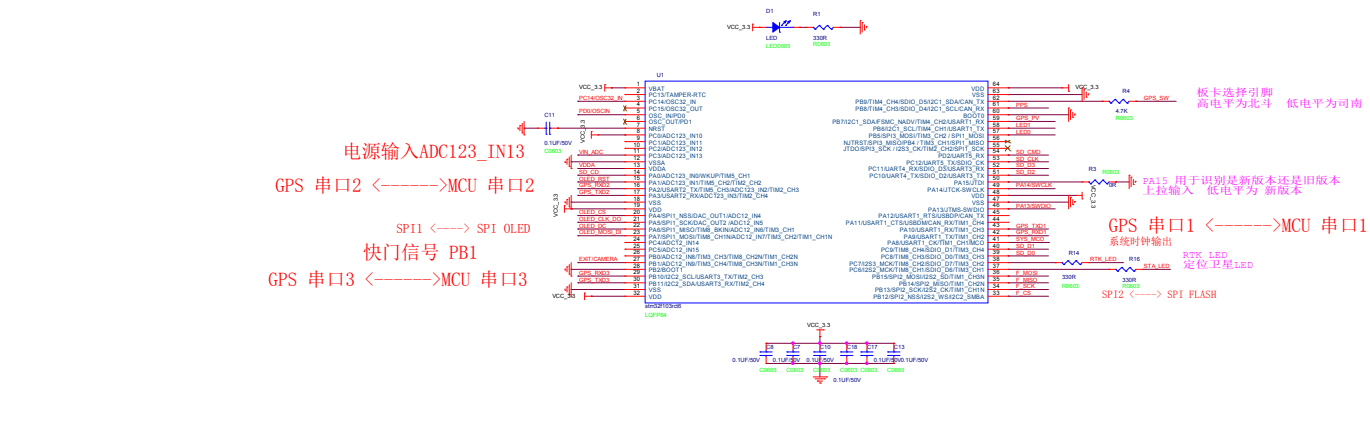
32.768KHZ 有源晶振

8M 有源晶振

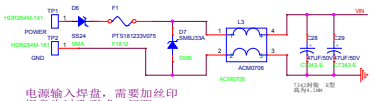


模拟电源 滤波



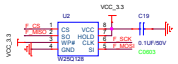


电源输入滤波

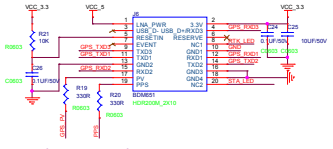


电源输入焊盘，需要加丝印
焊盘为过孔形式，间距 1 CM
放在PCB 边沿处

外部SPI FLASH 16M
用于存放字库
存放加密数据
存放设备角色数据



GPS板卡
原理图为 北斗BDM651板卡



引脚 8 及引脚20 用于兼容 司南K505板卡
引脚8 RTK 指示灯
引脚20 定位卫星指示灯

GPS板卡选择

板卡选择引脚
高电平为北斗 低电平为司南

请放丝印
C端 放 BD 丝印
A端放 SN 丝印

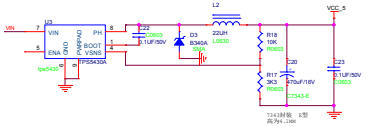
拨动开关检测

GPS板卡选择
拨动开关补救措施

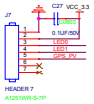
板卡选择引脚
高电平为北斗 低电平为司南

请放丝印
C端 放 BD 丝印
A端放 SN 丝印

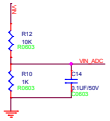
DC - DC 5V



LED小板接口



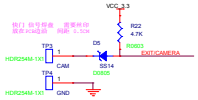
电源输入ADC采样
请尽量靠近MCU IO



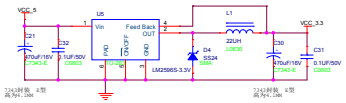
GPS板卡串口1
用于调试

2.54MM间距排针 用于测试 不用焊接
请在1脚处 标注丝印 小圆点即可

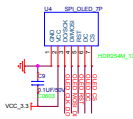
相机快门信号



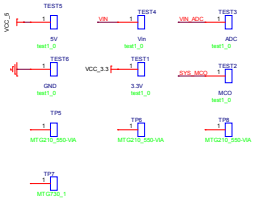
DC - DC 3.3V



SPI OLED 屏
脚间距 2.54MM

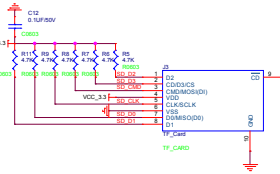


测试点 值为丝印内容
如果放不下请简写 ADC信号不要过长



MCO测试点放在空旷处
便于示波器探笔

TF卡座 自弹式



SWD接口
程序下载调试

File	<Title>		
Size A1	Document Number <Doc>		Rev <Rev Code>
Date: Monday, September 26, 2016	Sheet 1 of 1		