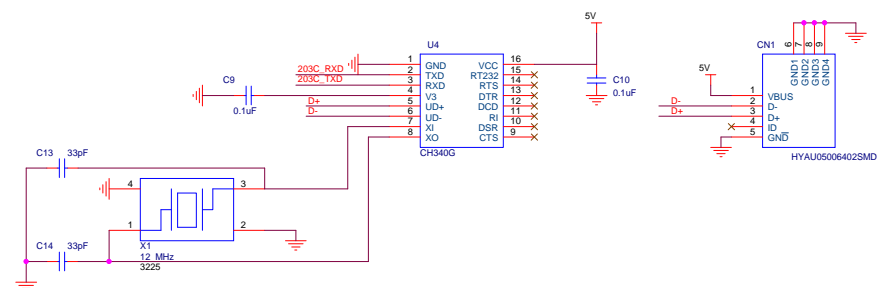
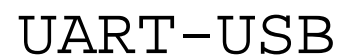
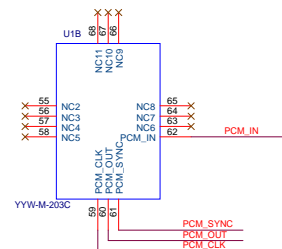


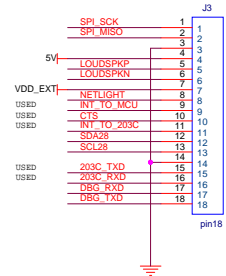
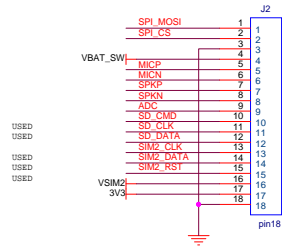
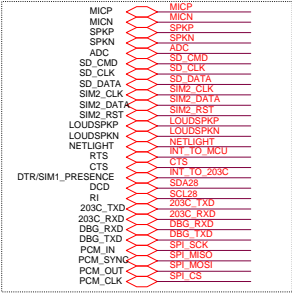
- V1.0(20170711)
初始版本
- V2.0(20170920)
- 1.pwrkey下拉，加电源开关
 - 2.支持电池，加充电电路，去掉DCDC
 - 3.USB串口换方案
 - 4.LED电路调整
 - 5.兼容贴片SIM卡
 - 6.加MCU，MCU可控制203C供电
 - 7.MCU留烧写口
 - 8.加一个LDO给MCU供电，MCU加开关
 - 9.GPS天线做了有源兼容，用有源需换料
 - 10.加G-SENSOR
- V2.1(20170929)
- 1.2303加上拉

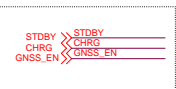
- V3.0(20180110)
- 1、三轴换成六轴、六轴供电加0欧电阻
 - 2、串口芯片换掉
 - 3、加SPI接口排针
 - 4、加DCDC电路，USB可以作为充电口，也可直接供电，用拨码开关选择
 - 5、MCU换掉
 - 6、蓝牙换成贴片天线
 - 7、GSM加SMA接口，可改焊电阻选择
 - 8、调整电解电容位置
 - 9、板子大小和布局调整

- V3.0问题
- 1、MCU的I2C未上拉
 - 2、六轴归属
 - 3、六轴AD0
 - 4、有源天线10R，47nH
 - 5、VRTC接3V3
 - 6、烧写孔0.75
 - 7、GSM的IPX去掉
 - 8、MCU I2C引出

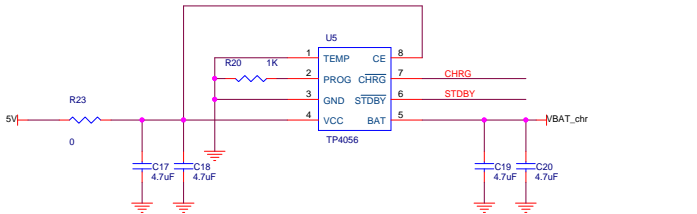
- V4.0（20180606）
- 1、删掉六轴传感器
 - 2、引出MCU的I2C和一个中断
 - 3、MCU的I2C上拉
 - 4、R1换成0805封装
 - 5、模块入口小电容调整
 - 6、mos换成WST2339
 - 7、贴片卡换成2x2
 - 8、GNSS天线兼容有源
 - 9、3.3V通过二极管供到VRTC
 - 10、MCU烧写口孔径调整
 - 11、删除GSM天线IPX接口
 - 12、充电入口限流电阻改成0R
 - 13、DCDC换成MP1470
 - 14、取消VRTC引出，原VRTC排针换成VDD_EXT
 - 15、4.7uF换成0603封装
 - 16、VBAT加了颗稳压管
 - 17、加TF卡槽，跟SIM卡槽重合
 - 18、引出脚的VBAT改成VBAT_SW







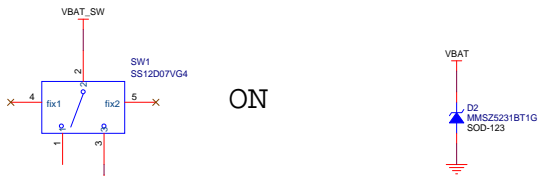
CHARGER



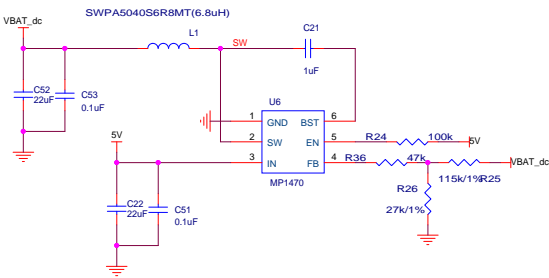
OFF

ON

POWER ON/OFF



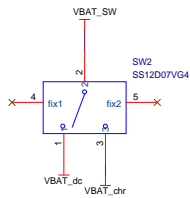
5V TO 4.2V



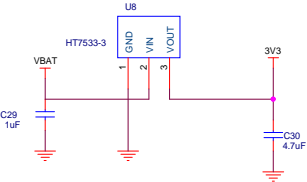
5V DC

battery

POWER SELECT

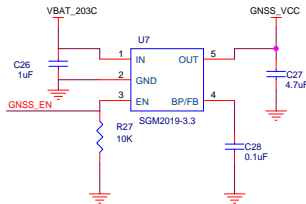


VBAT-3.3V



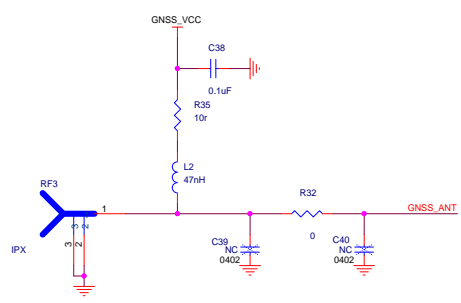
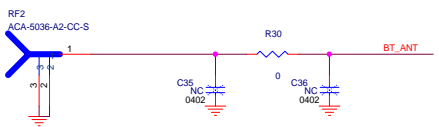
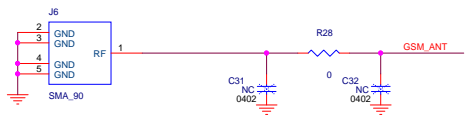
静态电流1~1.5uA
最大负载100mA

VBAT-GNSS

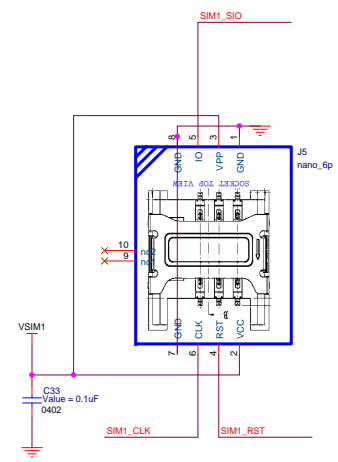


- GSM_ANT > GSM_ANT
- GNSS_ANT > GNSS_ANT
- BT_ANT > BT_ANT
- SIM1_CLK > SIM1_CLK
- SIM1_RST > SIM1_RST
- SIM1_SIO > SIM1_SIO

ANTS



NANO SIM



SMT SIM_2X2

