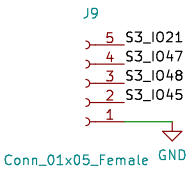
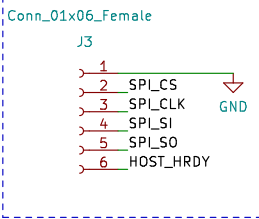


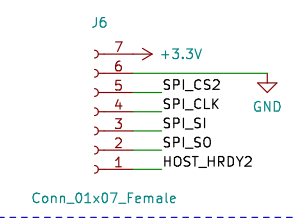
S3 available IOs



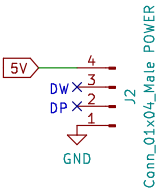
SPI Interface CINREAD



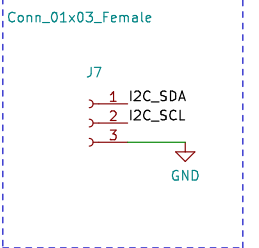
SPI Interface 2 (external)



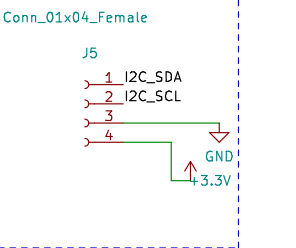
CINREAD IT8951 Power source



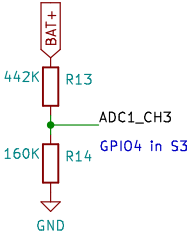
I2C interface CINREAD



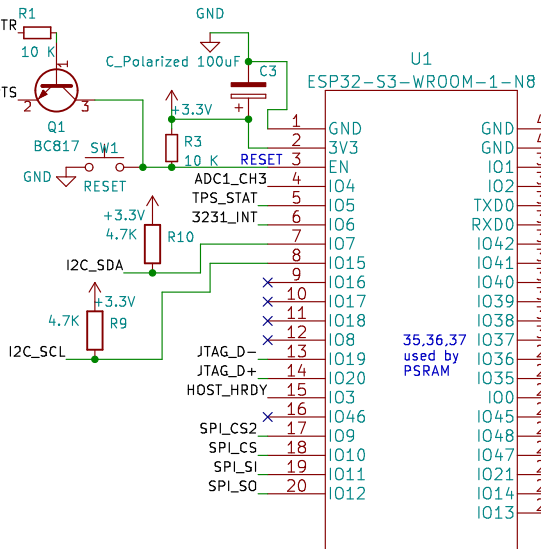
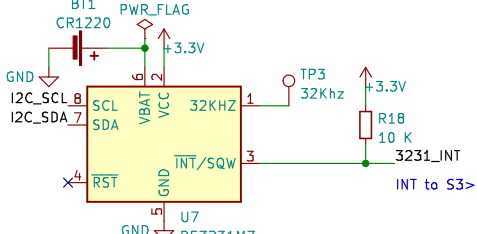
I2C interface 2 (BME 280 like)



Voltage divider (via ADC1\_CH3)

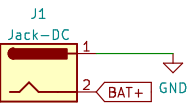


DS3231 Real time clock via I2C

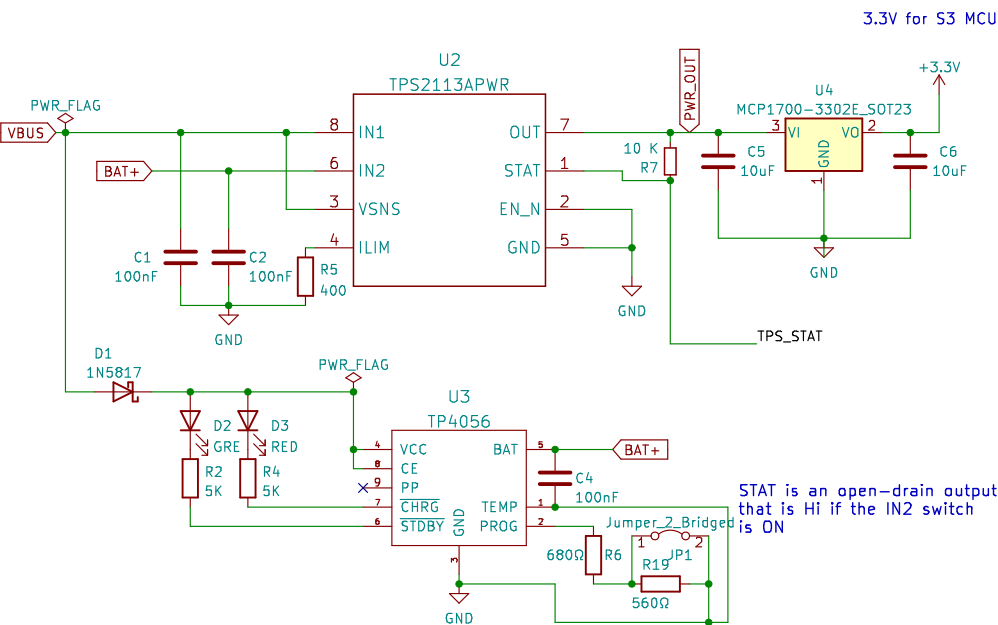


ATTENTION: There are 2 models QFN20 and QFN24 → is used in this design  
GPIO3 Controls where JTAG signal goes  
0: JTAG signal from on-chip JTAG pins  
1: JTAG signal from USB Serial/JTAG controller

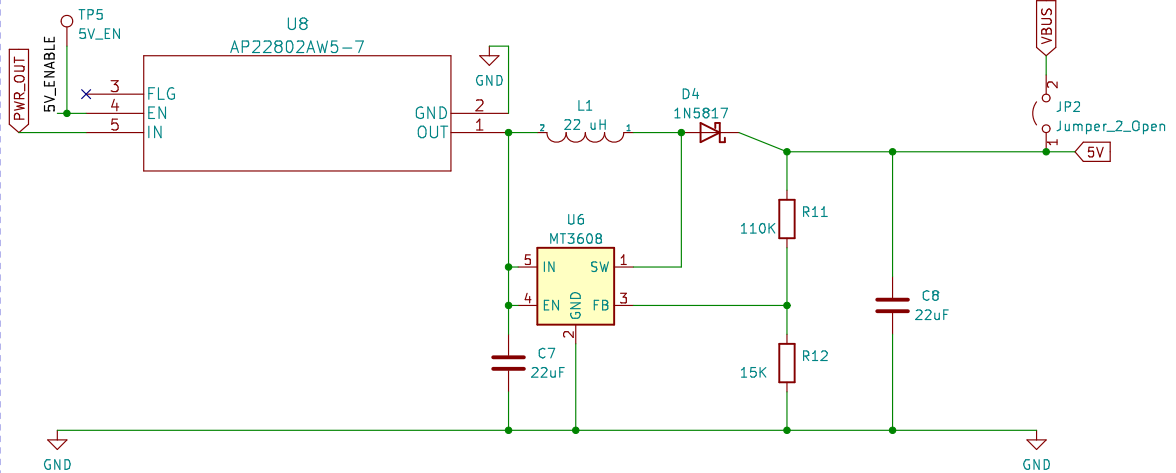
Battery jack



LiPo 3.7V charging circuit + 3.3 V step down



3V to 5V BOOST converter MT3608. Enable with IO38 HIGH (When on battery)



STAT should be LOW if PWR\_OUT comes from USB  
IMPORTANT: By default VBUS is not connected to 5V Solder jumper JP2 to allow 5V from USB