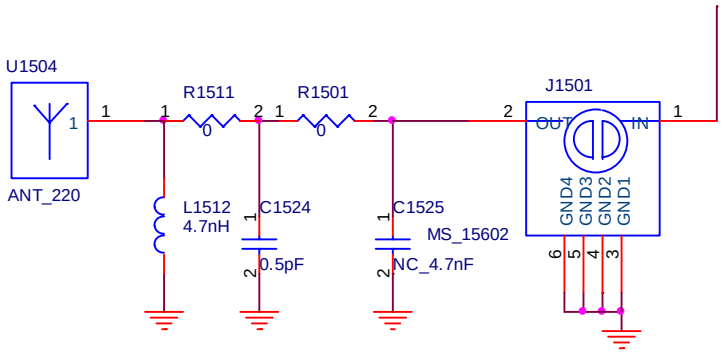
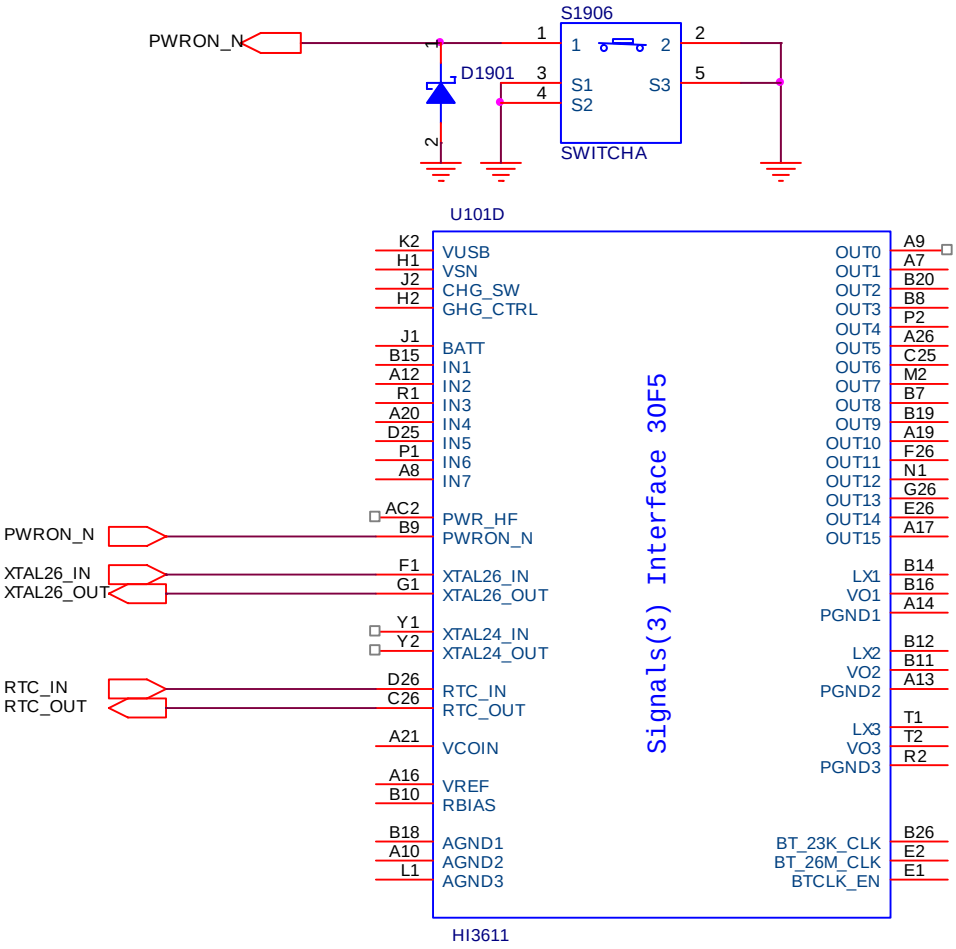
1、Transmitter/Receiver Circuit



This circuit shows the transmitter and receiver path of GSM/DCS/PCS. The RF signal which is amplified by RF PA transmits to antenna through antenna switch and than eradiate to the air. R1511, L1512, C1524 make up of the antenna matching circuit.When receiver, the antenna receive the RF signal, and then demodulated by SI4220 after band filter.

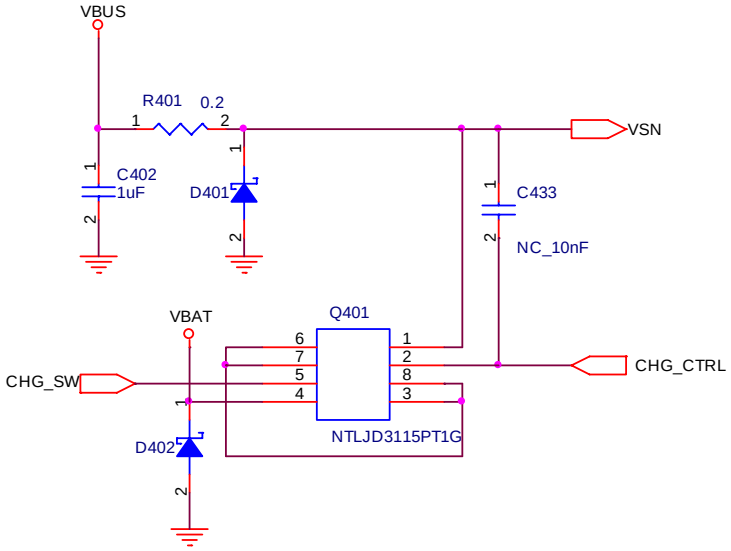
2、Power ON/OFF Circuit



After inserting the battery, the 32.768KHZ crystal start to work. Now press the power on/off switch S1906, then the inner program start initialing;Press the power on/off switch at normal work status , CPU HI3611 will detect the signal and go to

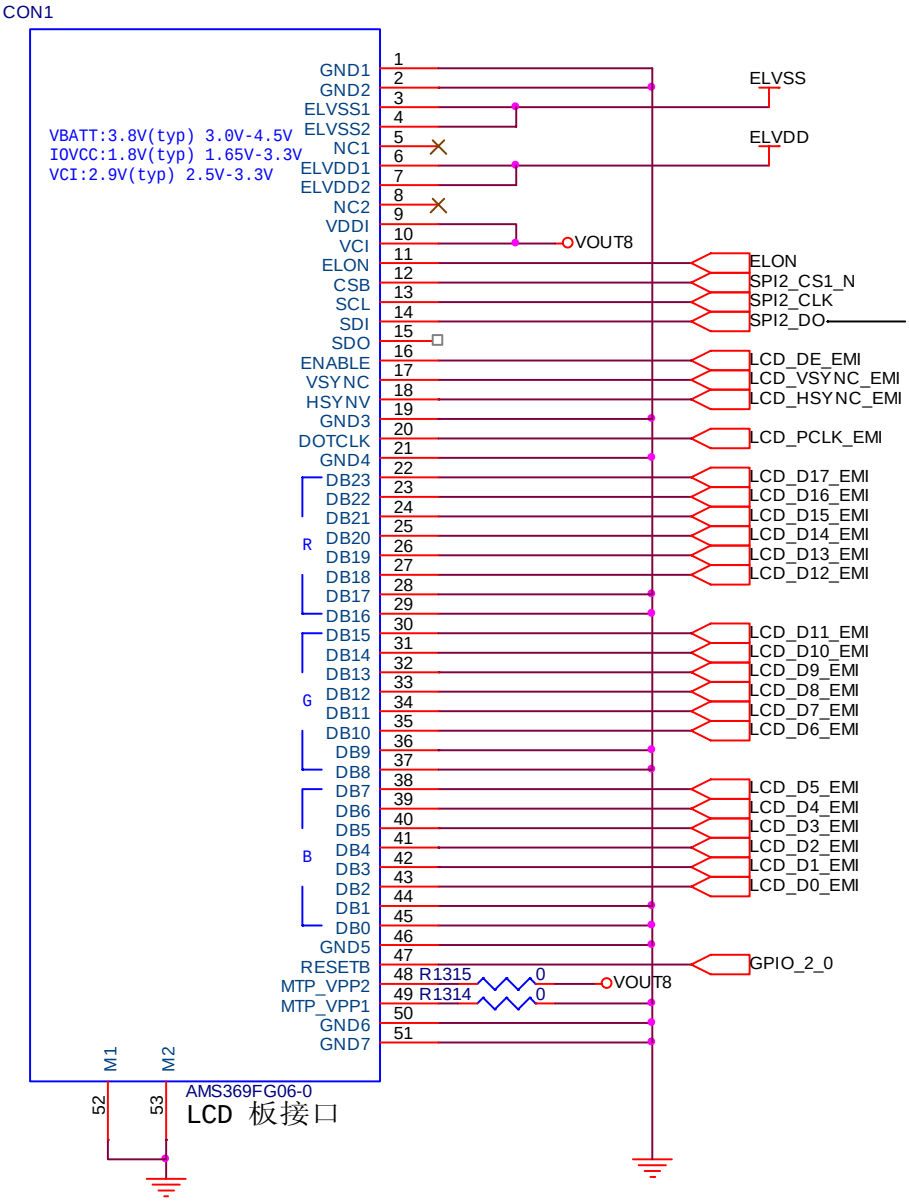
sleep;press the switch about 2s at normal work status, CPU will detect the signal and start the power off program.

3、Charger Circuit



The HI3611 integrate the charger control circuit. When inserting the charging Adapter or usb host, VSIN will detect high level, then CPU control the correlative singal to start the charging program.

4、AMOLED Circuit



The AMOLED connects to CPU through FPC connector. The signals are defined as follows:

VDDI/VCI：AMOLED inner driver voltage，provided by HI3611

ELVSS/ELVDD：AMOLED backlight

ELON：AMOLED inserted detecting signal

RESETB：Reset signal

SDI：AMOLED writing signal

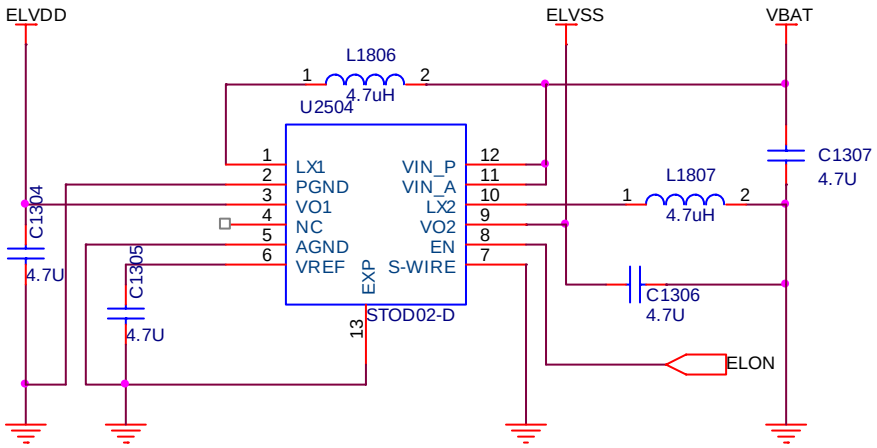
SCL/VSYNC/HSYNV/DOTCLK：clock signal

ENABLE：AMOLED enable signal

CSB：AMOLED chip select signal

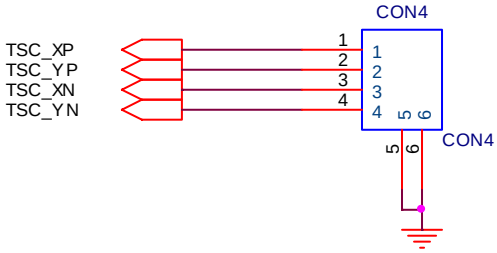
DB0～DB23：AMOLED data signal

5、OLED Backlight Circuit



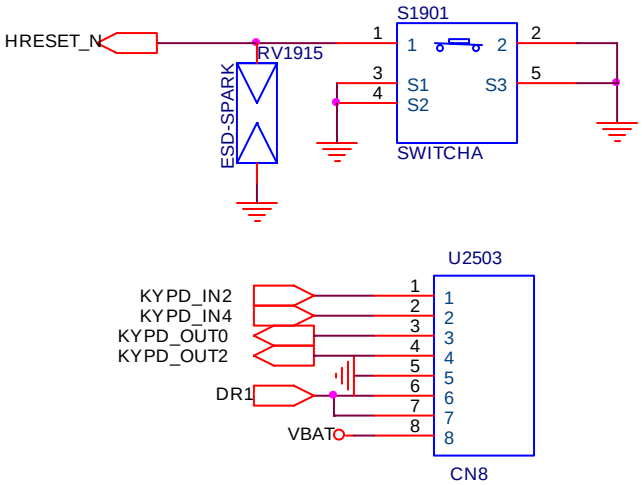
OLED backlight is Control by ELON.

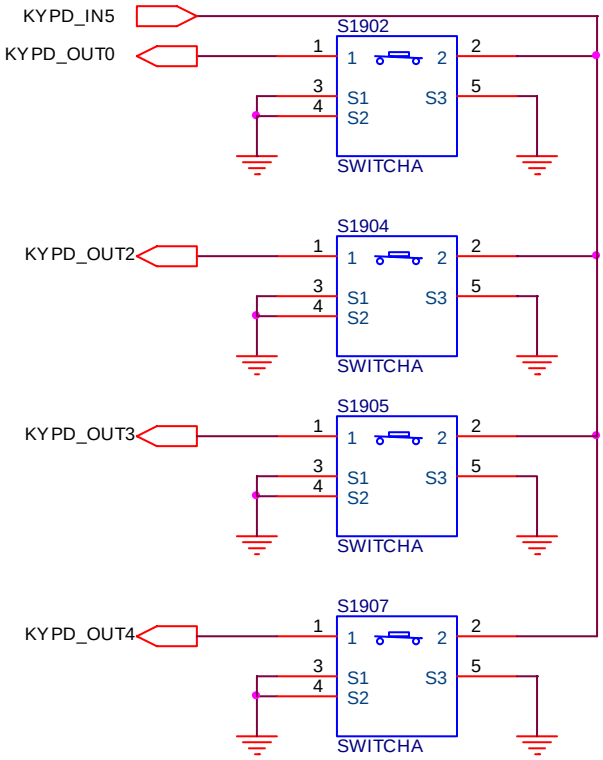
6、Touch Panel circuit



The HI3611 integrates the touch panel control circuit.

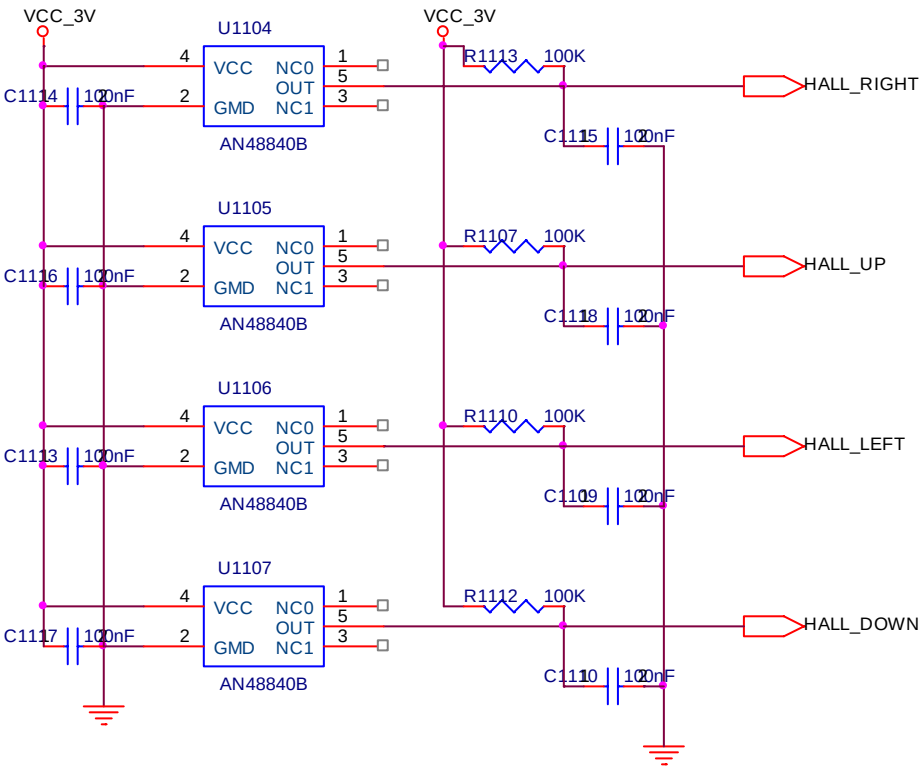
7、Keypad Circuit

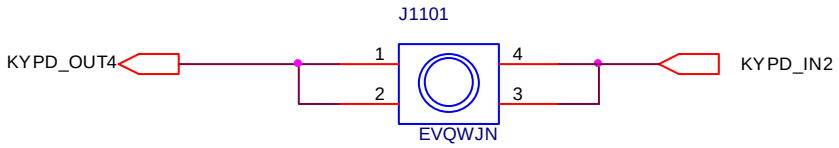




The keypad contains S1901,S1902,S1904,S1905,S1907,and others keys connect CPU through FPC .

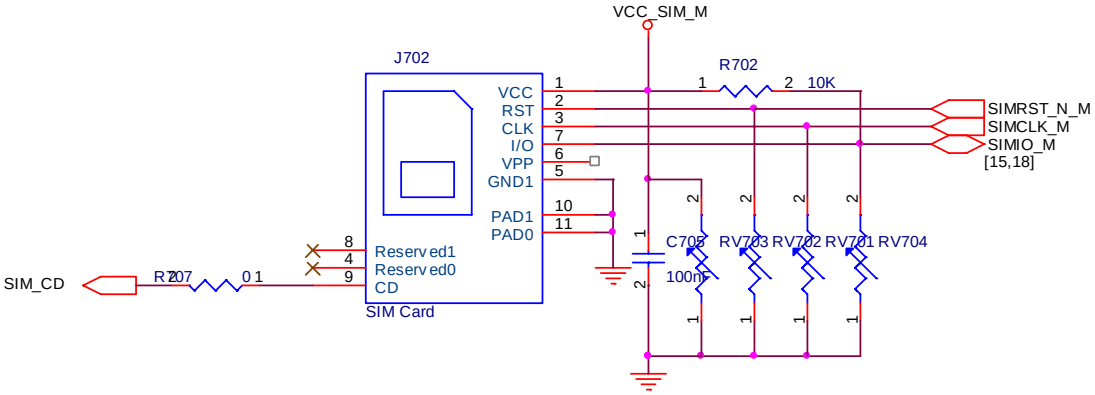
8、JOG BALL Circuit





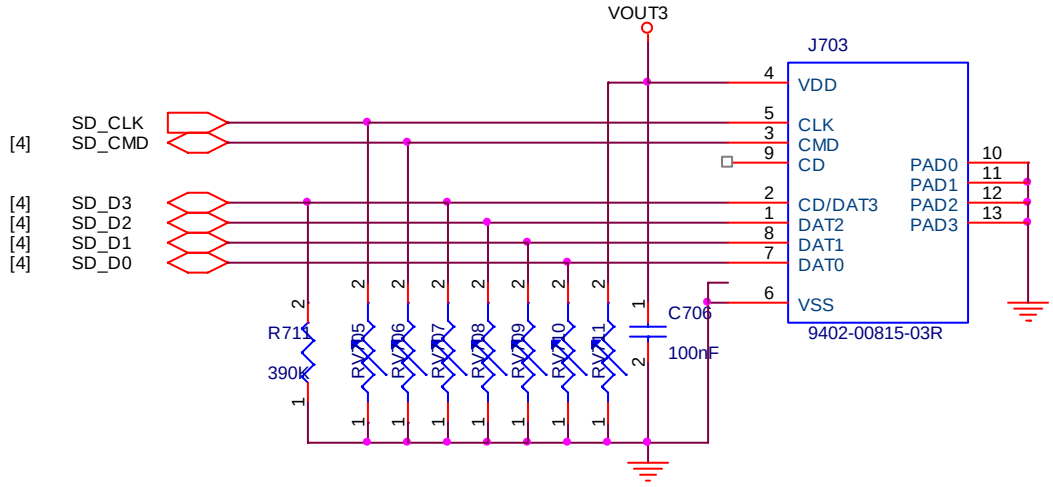
The HI3611 supports the JOG BALL circuit

9、SIM Card Circuit



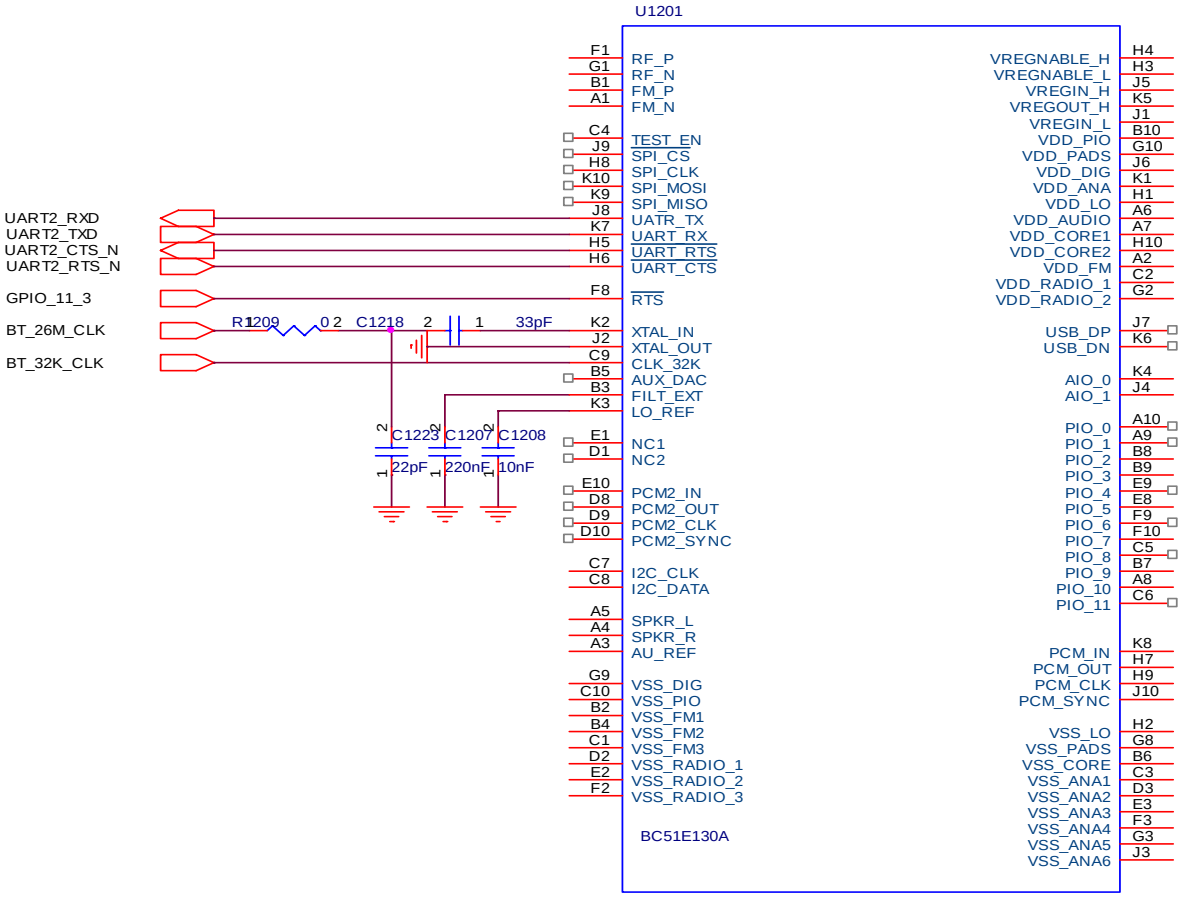
SIM card pin defined as follows：
VCC：SIM card voltage supply,
I/O：Data input/output
CLK：Clock signal
RST：Reset signal
CD：card detect signal

10、T-Card Circuit



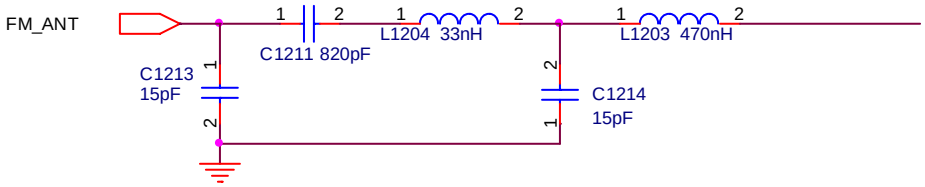
T card pin defined as follows：
VCC：SIM card voltage supply,
DAT0~DAT3：Data input/output
CLK：Clock signal
CMD：command signal

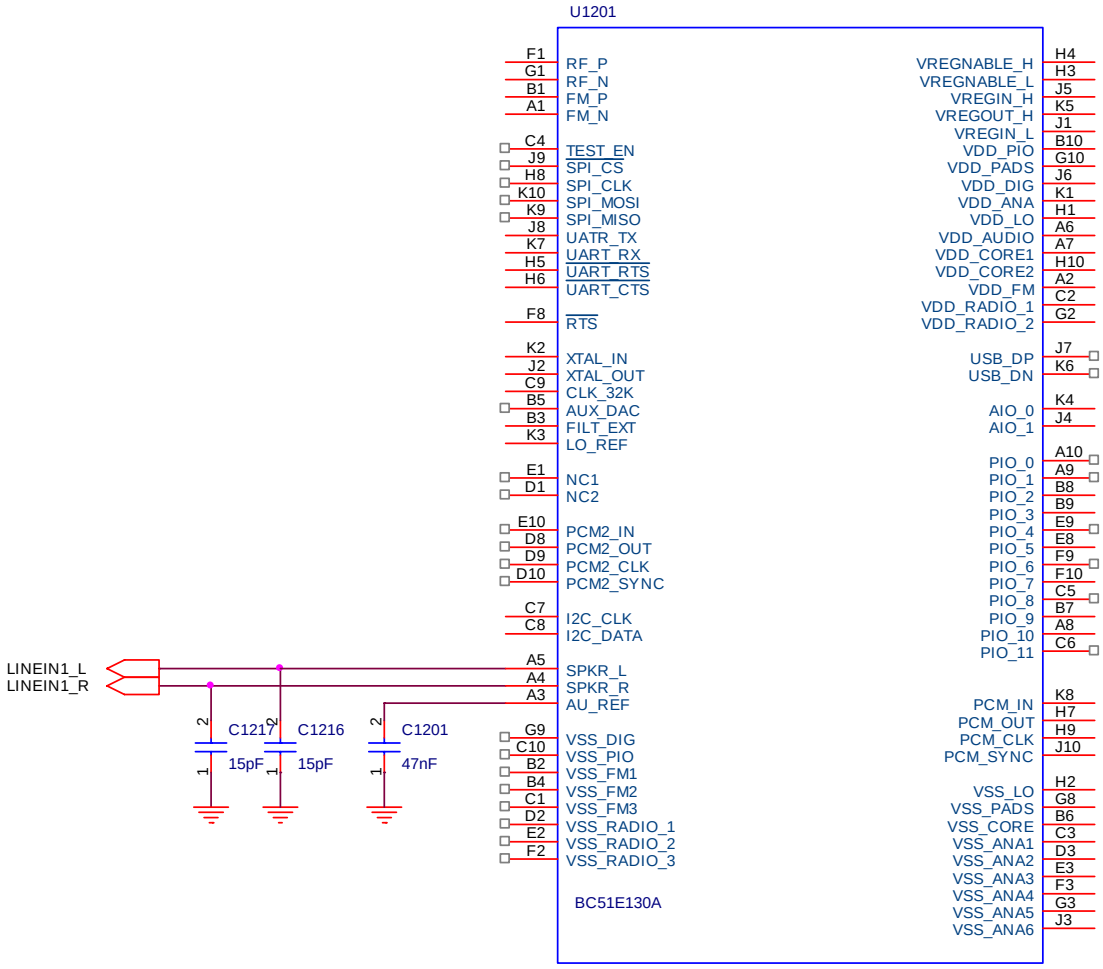
11、Bluetooth Circuit



The Bluetooth chip is BC51, and the working frequency is 2400-2483.5MHz.The chip communicate with CPU through UART.

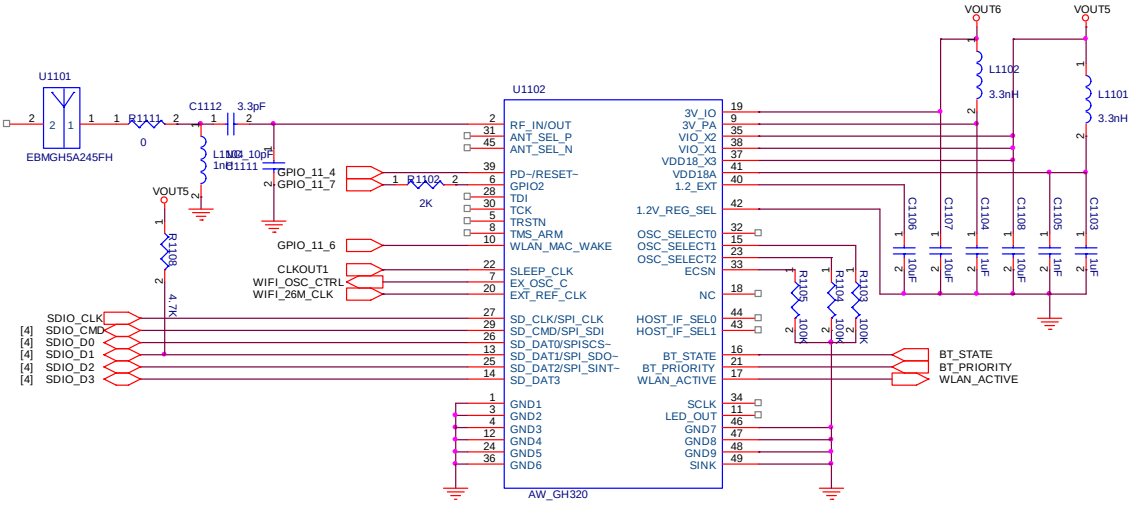
12、FM Circuit





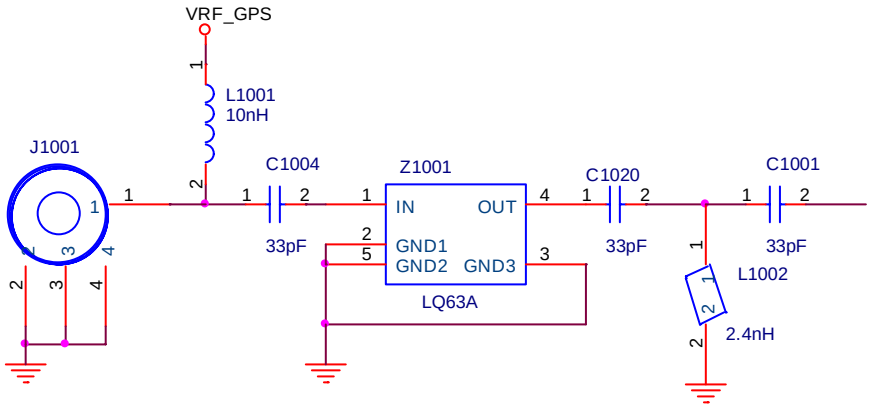
The Bluetooth chip integrates the FM circuit. The antenna receive the FM signal, and the chip process the signal then translate it to CPU .

13、wifi Circuit



The wifi chip is AW-GH321, and the center frequency is 2.4GHz.

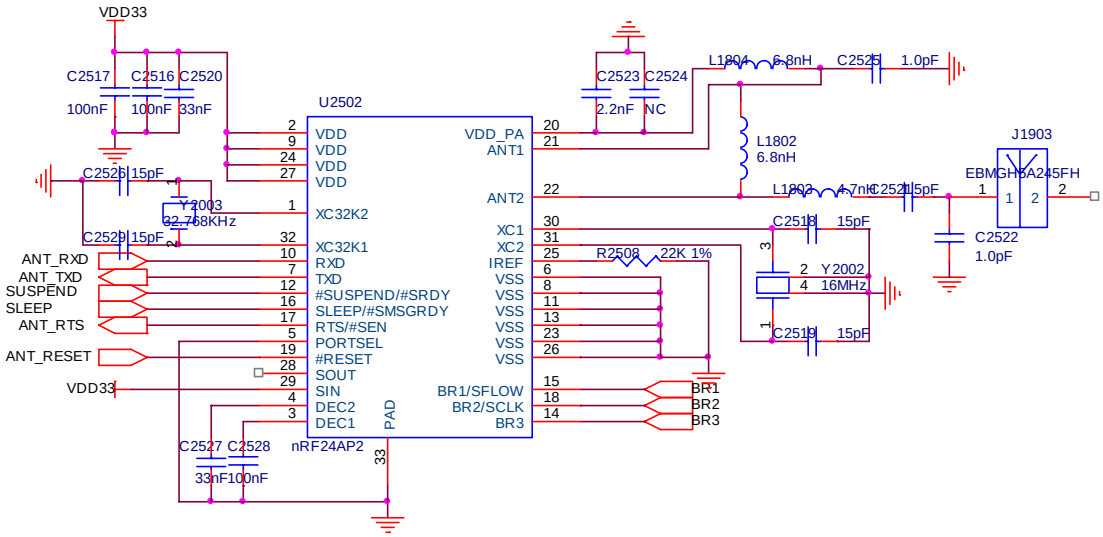
14、GPS Circuit



The GPS chip is GSC3LT, and the center frequency is 1.57GHz. The chip communicate with CPU through UART.

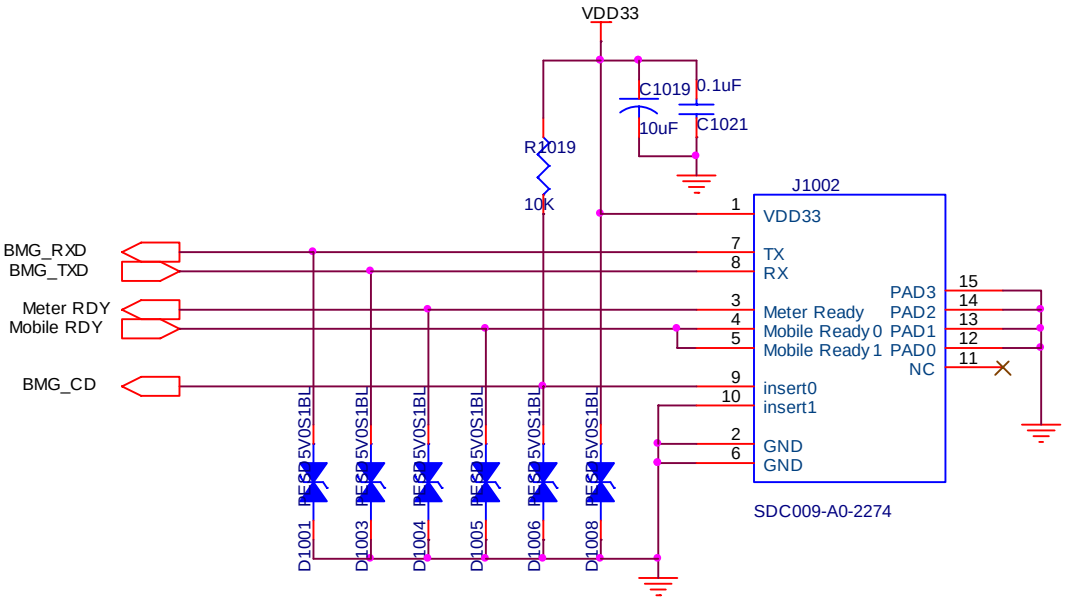
The satellite signal received by the antenna,three or more satellites can make the positioning function.

15、ANT Module circuit



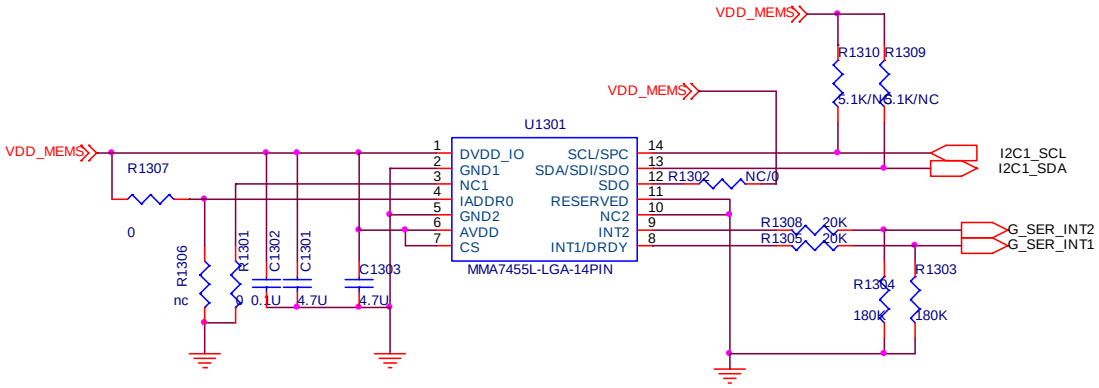
The ANT chip is nRF24AP2.

16、slot(for user applications) circuit



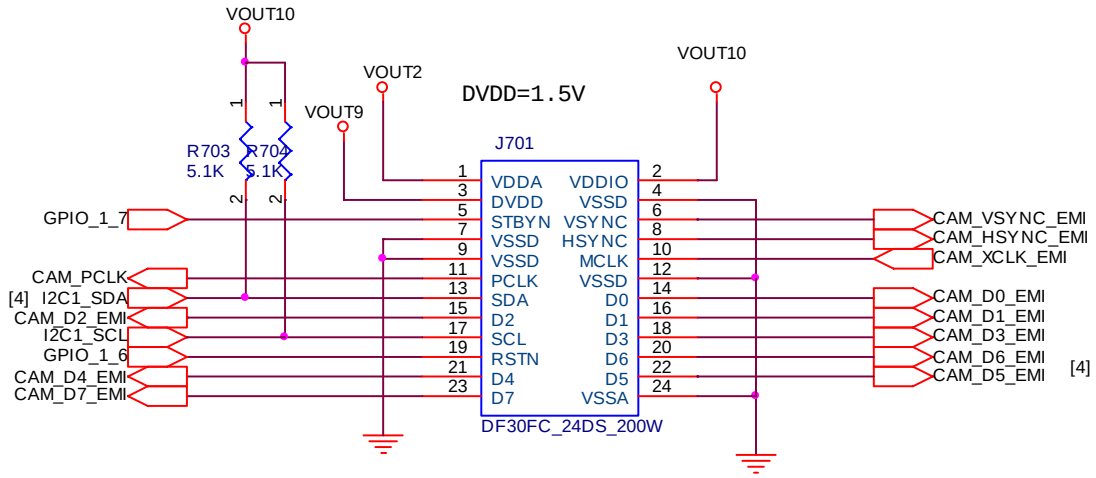
The slot is reserved for users.That can be used for several applications such as Blood Glucose Meter or ECG Measurement.

17、3D G Sensor circuit



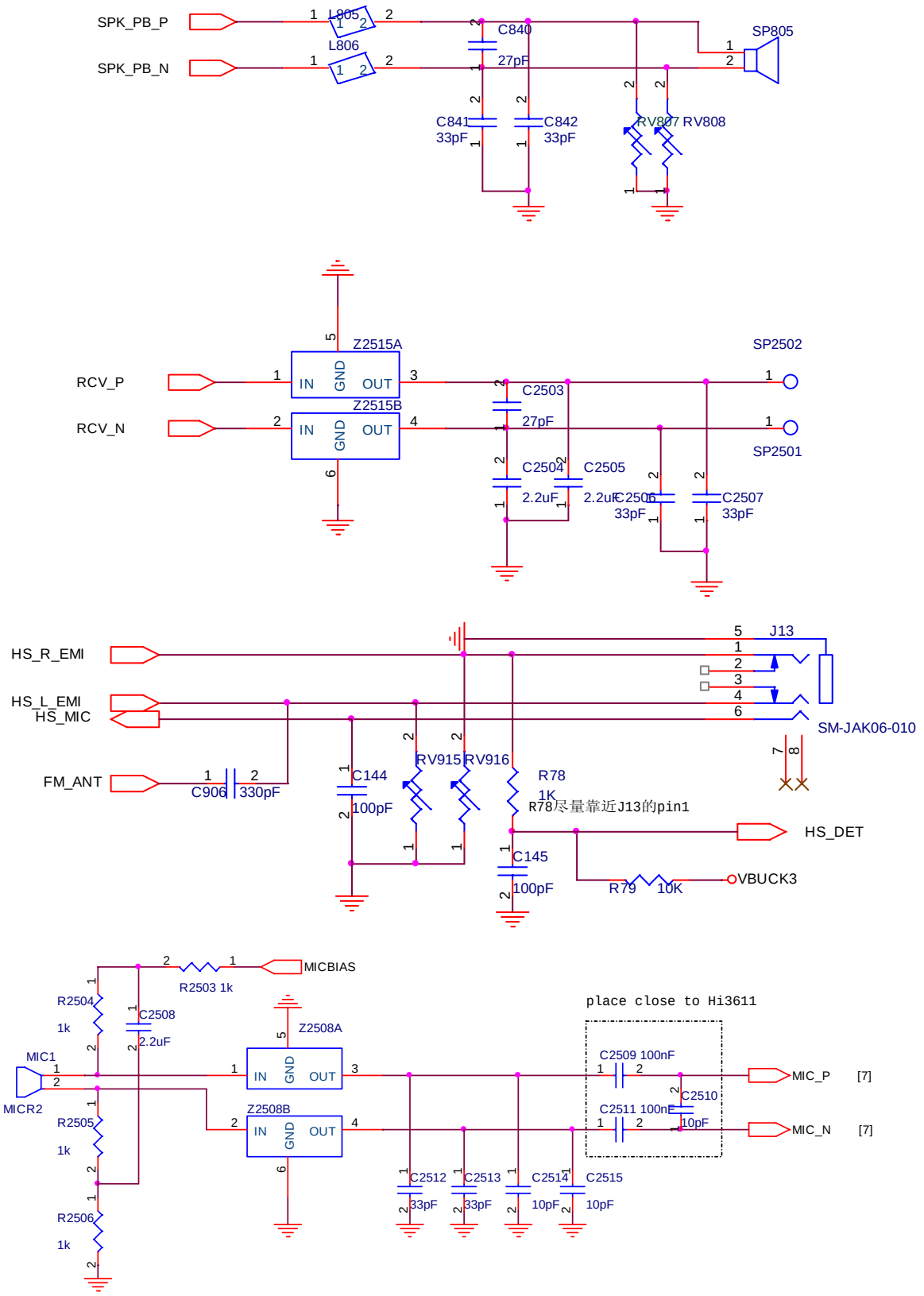
The Sensor chip is MMA7455L. The chip communicate with CPU through IIC.

18、Camera circuit



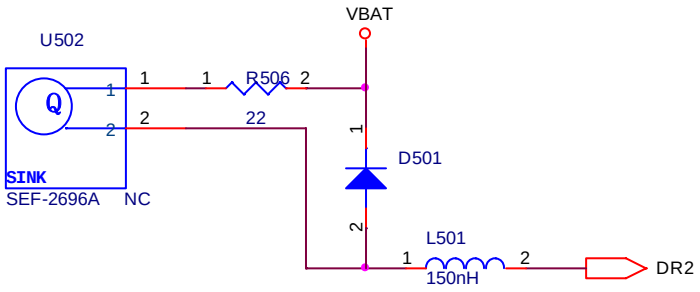
The system contains two cameras.They have common data signal，control signal and clock signal except reset signal.

19、spk/receiver/Jack/mic circuit



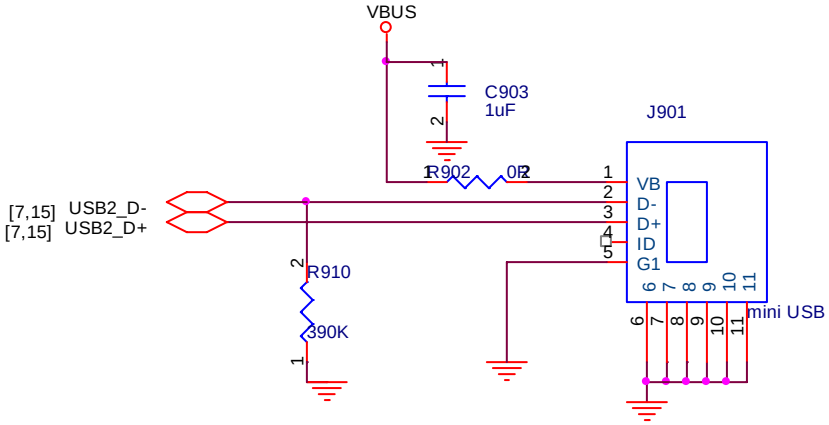
The HI3611 integrates the audio codec circuit.
For convenient operation,there are common audio interfaces such as speaker, receiver,audio jack and mic.

20、motor circuit



The HI3611 integrates the motor circuit.The motor will shake to notify users when there is new information according to user setting.

21、micro usb circuit



USB interface acts as data translation and USB charging.