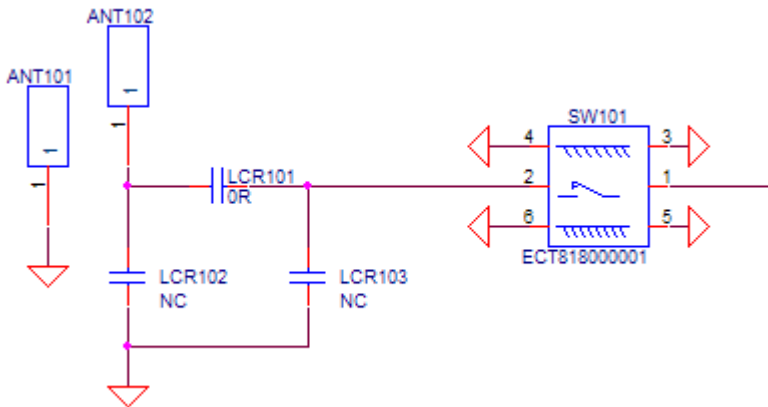


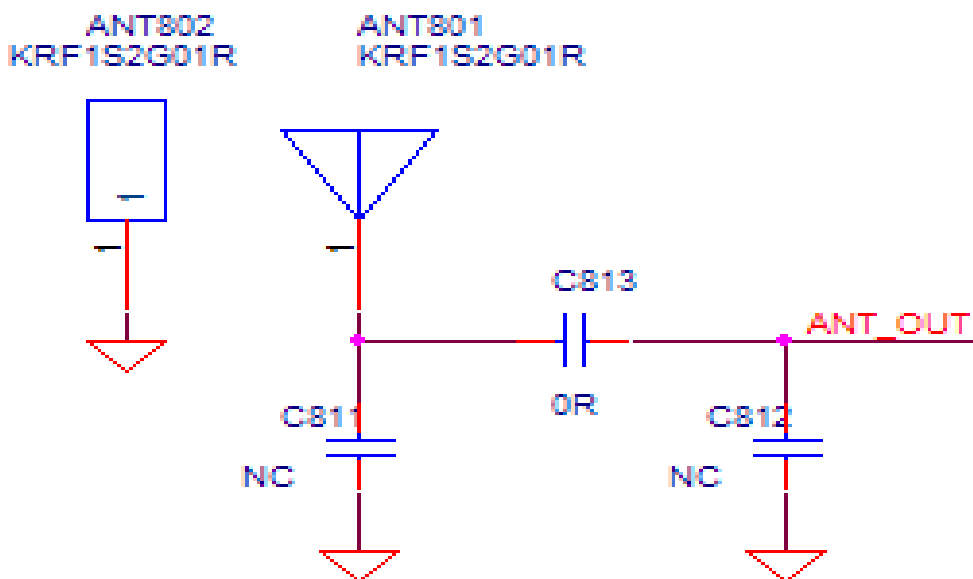
CIRCUIT DESCRIPTION

1、 GSM Transmitter/Receiver Circuit



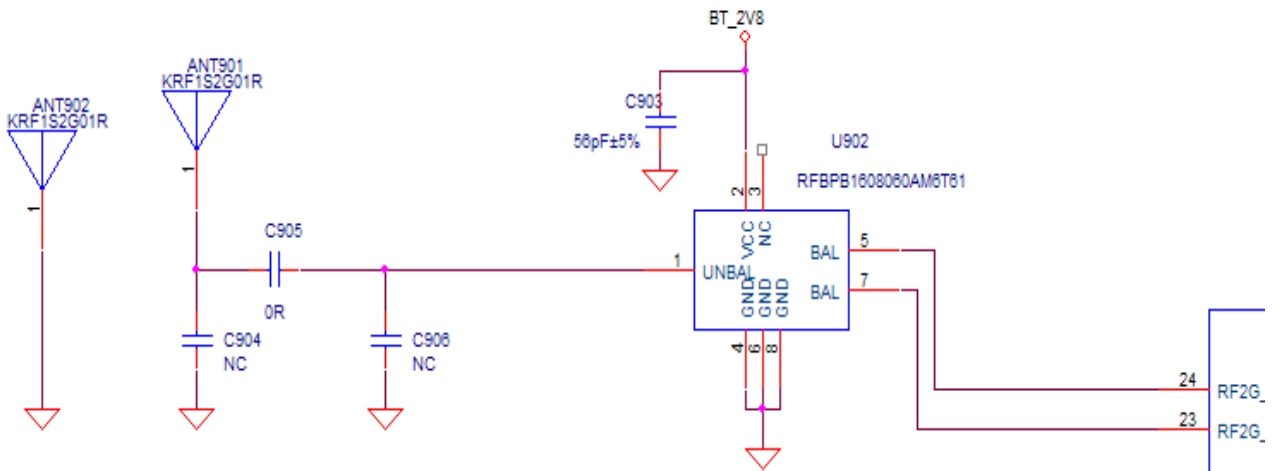
This circuit shows the transmitter and receiver path. The RF signal which is amplified by RF PA transmits to antenna through antenna switch and then radiates to the air. LCR101, LCR102, LCR103 make up of the antenna matching circuit. When receiver, the antenna receives the RF signal, and then demodulated by RF7161.

2、 WIFI Transmitter/Receiver Circuit



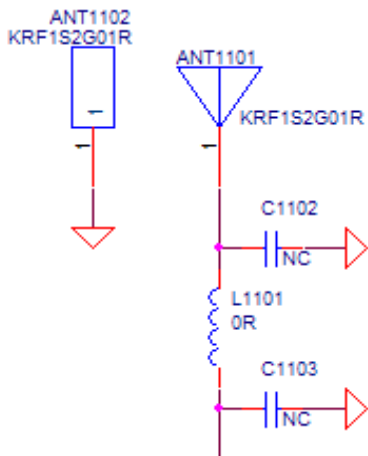
This is wifi RF circuit. ANT_OUT connects to WIFI module. C811, C813, C812 make up of the antenna matching circuit. The antenna receives the RF signal, and then demodulated by wifi module.

3、 BT Transmitter/Receiver Circuit



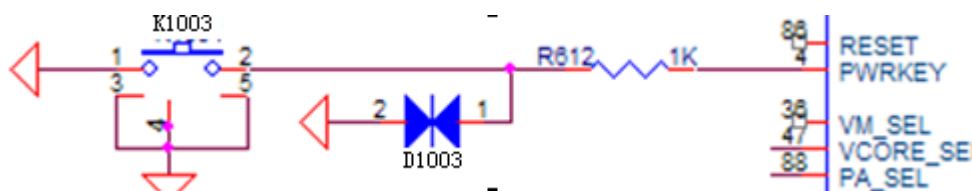
This is BT RF circuit. C904,C905,C906 make up of the antenna matching circuit. the antenna receive the RF signal, and filtered by U902, then demodulated by BT module MT6616. BT_RFN and BT_RFP connect to MT6616.

4、 GPS Receiver Circuit



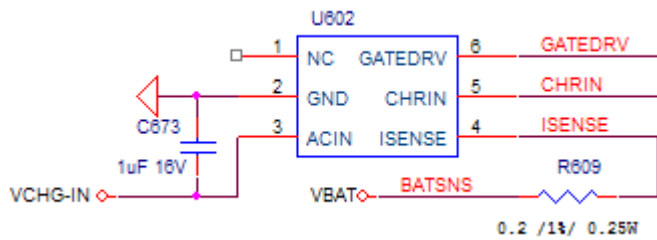
This is GPS RF circuit. connect to GPS FILTER.

5、 Power ON/OFF Circuit



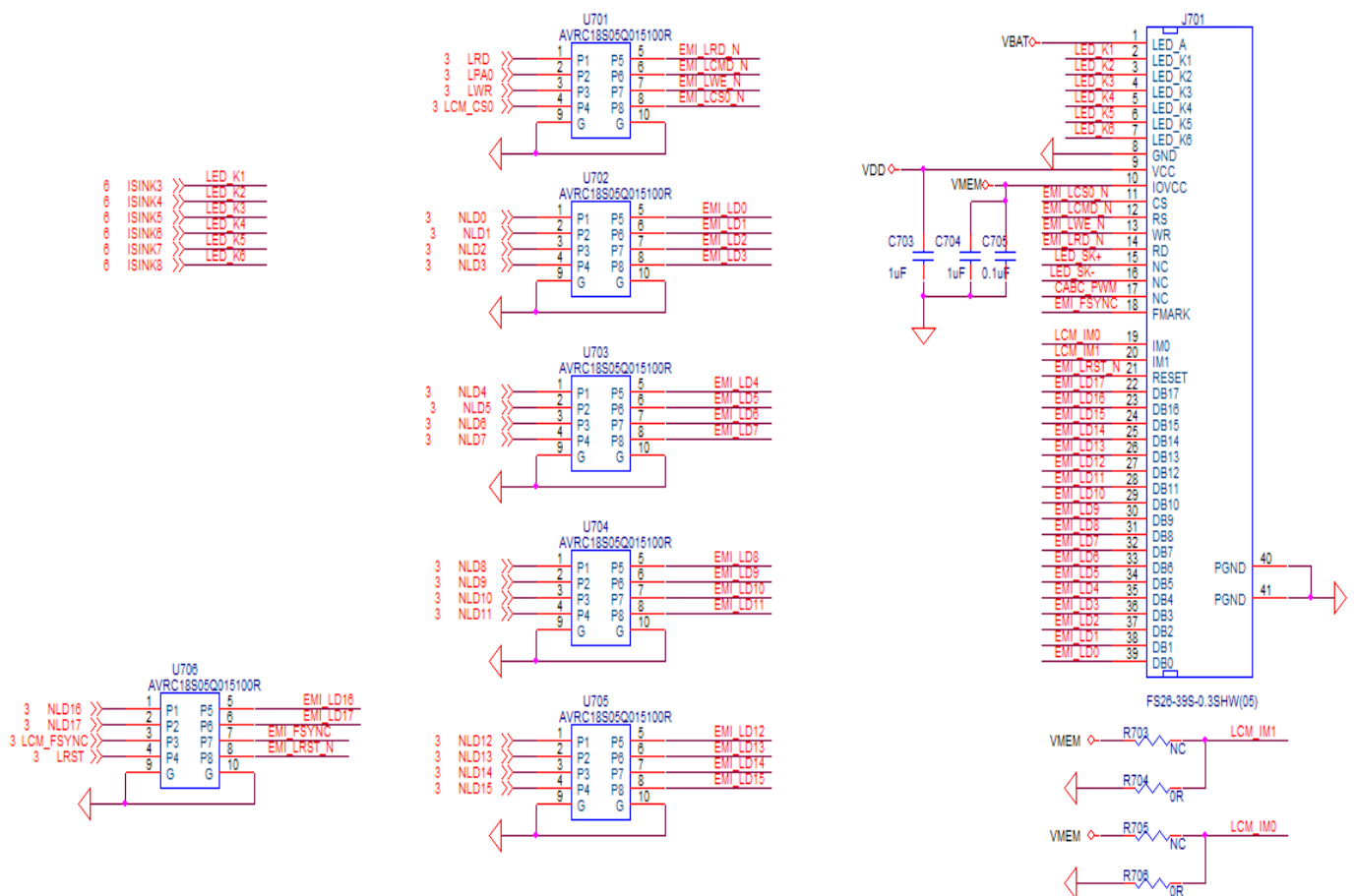
After inserting the battery, VRTC output voltage of 2V, and then the 32.768KHZ crystal start to work. Now press the power on/off switch K1004, PMU will woking, then the BB inner program start initialing. Press the power on/off switch about 2s at normal work status, CPU will detect the signal and you will see the power off item.

6、Charger Circuit



The U602 DS9719 integrate the charger control circuit. When inserting the charging adapter, CHRIN detect high level, and start the charging program. GATEDRV output Analog voltage to control charging current. The ISENSE and BATSNS between R609 is charge current A/D input. The GATEDRV/CHRIN/ISENSE/BATSNS will connect to PMU (MT6326), BB(MT6516) and PMU(MT6326) is charge controller.

7、LCD Circuit



The LCD connects to MT6516 through EMI&ESD filter. The signals are defined as follows:

IOVCC: LCD interface driver voltage, provided by MT6326

VCC: LCD inner driver voltage, provided by MT6326

CS: Chip select signal

RESET: Reset signal

WR: LCD writing signal

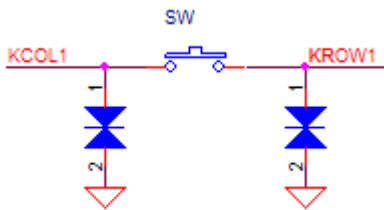
RD: LCD reading signal
 RS: LCD data/command select signal
 DB0~DB17: LCD data signal

8、LCD Backlight Circuit

ISINK3	37	LED_K1
ISINK4	35	LED_K2
ISINK4	34	LED_K3
ISINK5	12	LED_K4
ISINK6	11	LED_K5
ISINK7	39	LED_K6
ISINK8		

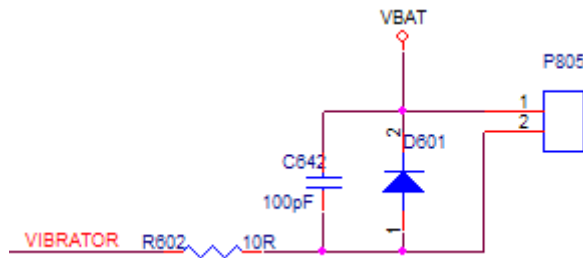
LCD backlight is provided by a LED. The LED controlled by the PMU(MT6326).

9、Keypad Circuit



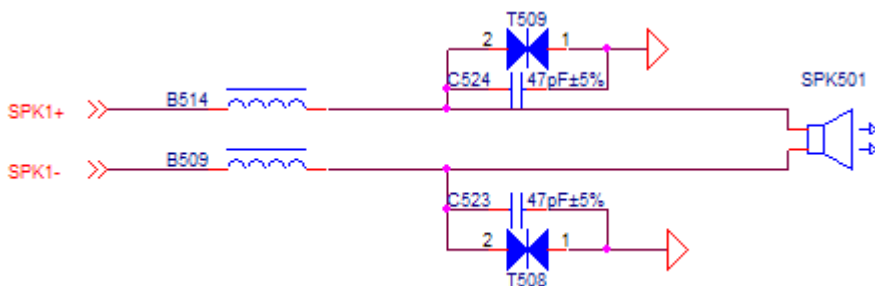
MT6516 support a 8*8 scan matrix (8 inputs and 8 outputs), can support 64 keys. When some key is pressed, the column detects low level, CPU start the keypad scan program, judge the key value, and start the corresponding operation. All used inputs and outputs have connected the TVS.

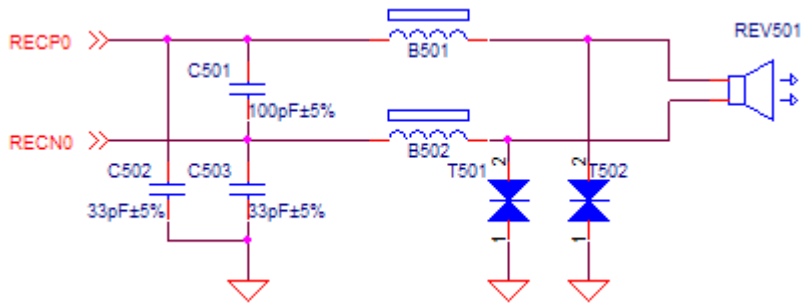
10、Motor Control Circuit



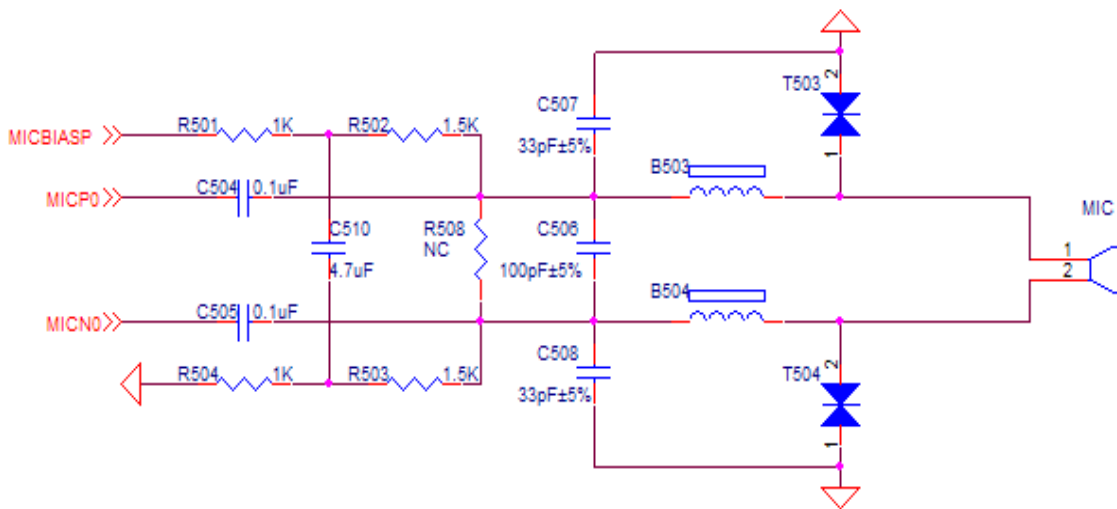
The PMU controls the motor open or close. When the control pin VIBRATOR is low, the motor start to work, and when it is high, the motor stop vibrate. The diode D601 is used as protect diode.

11、Audio Circuit

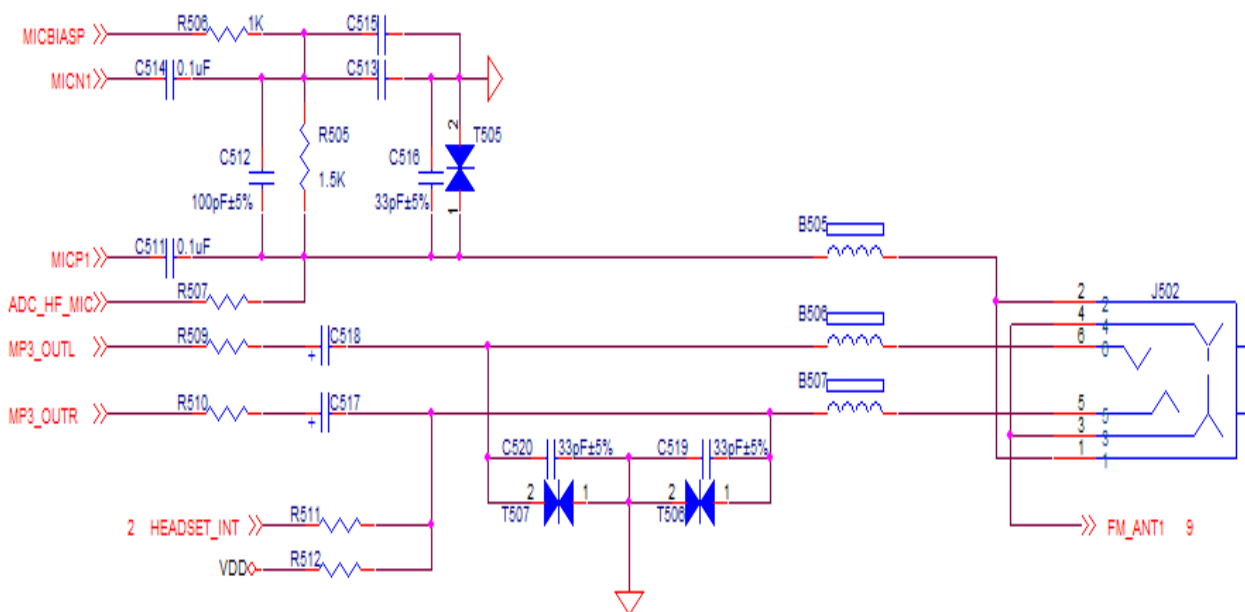




The receiver is drive by inner power amplifier of BB(MT6516). The speaker is drive by inner power amplifier of PMU(MT6326).

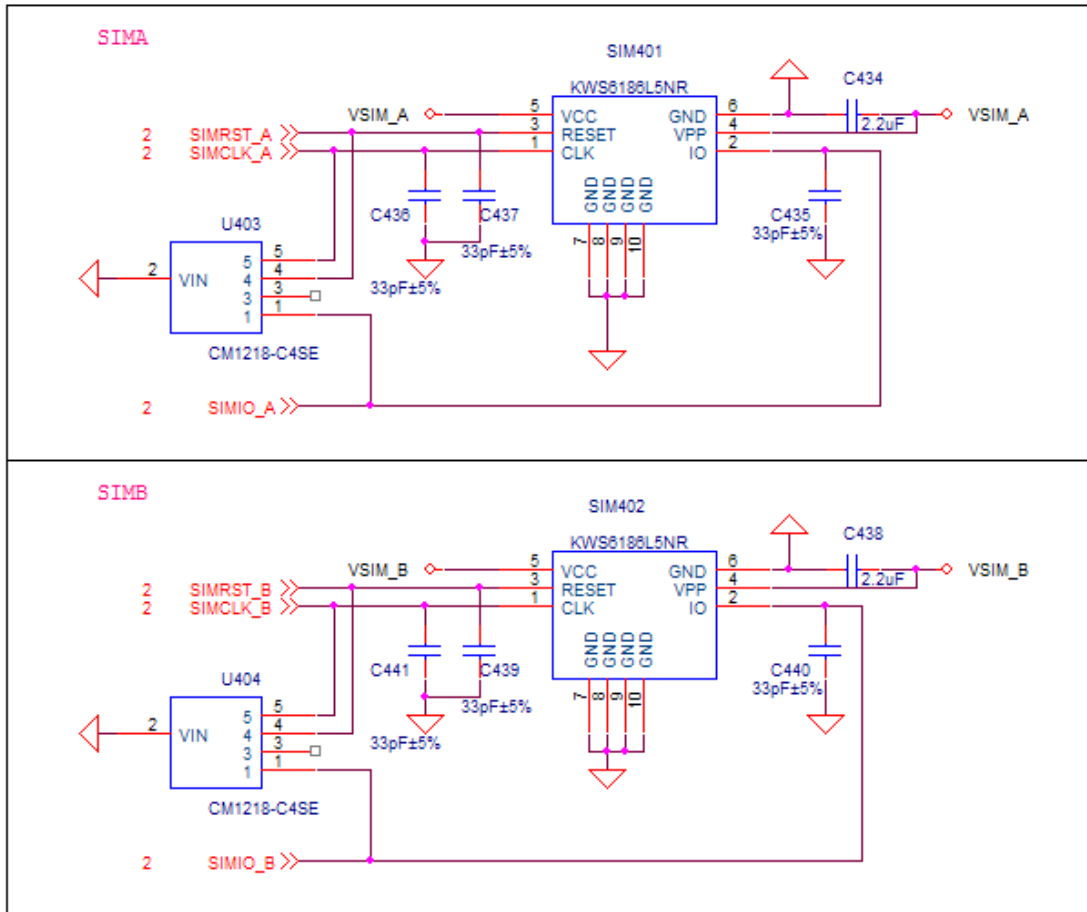


This is micphone circuit. MICBIASP provides the bias voltage for micphone.



This is headset circuit. HEADSET_INT is headset insert signal. When headset insert, it is low. FM_ANT is FM analog signal from headset and to FM circuit.

12、 SIM Card Circuit



SIM card pin defined as follows:

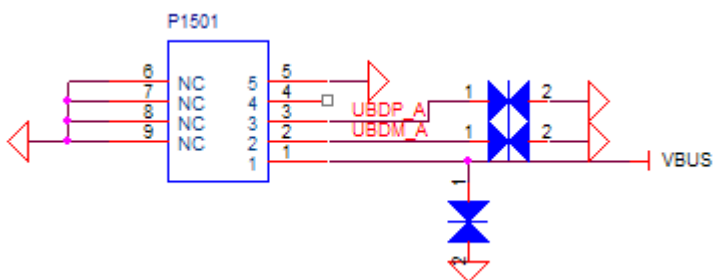
VSIM: SIM card voltage supply, provide by PMU(MT6326)

SIMIO: Data input/output

SIMCLK: Clock signal

SIMRST: Reset signal

13、 I/O Circuit



The I/O circuit used as USB port, charge input.