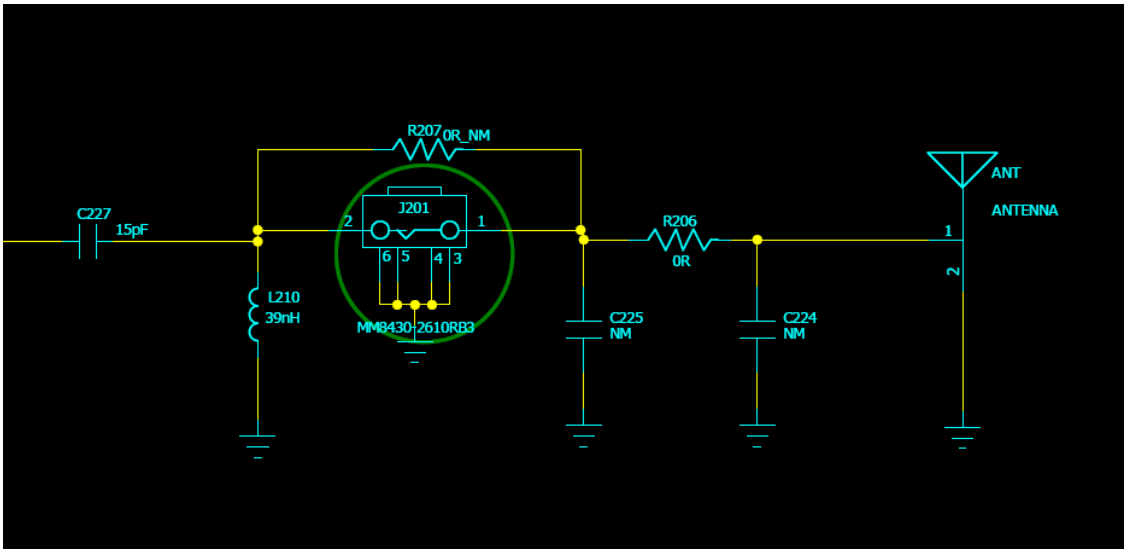
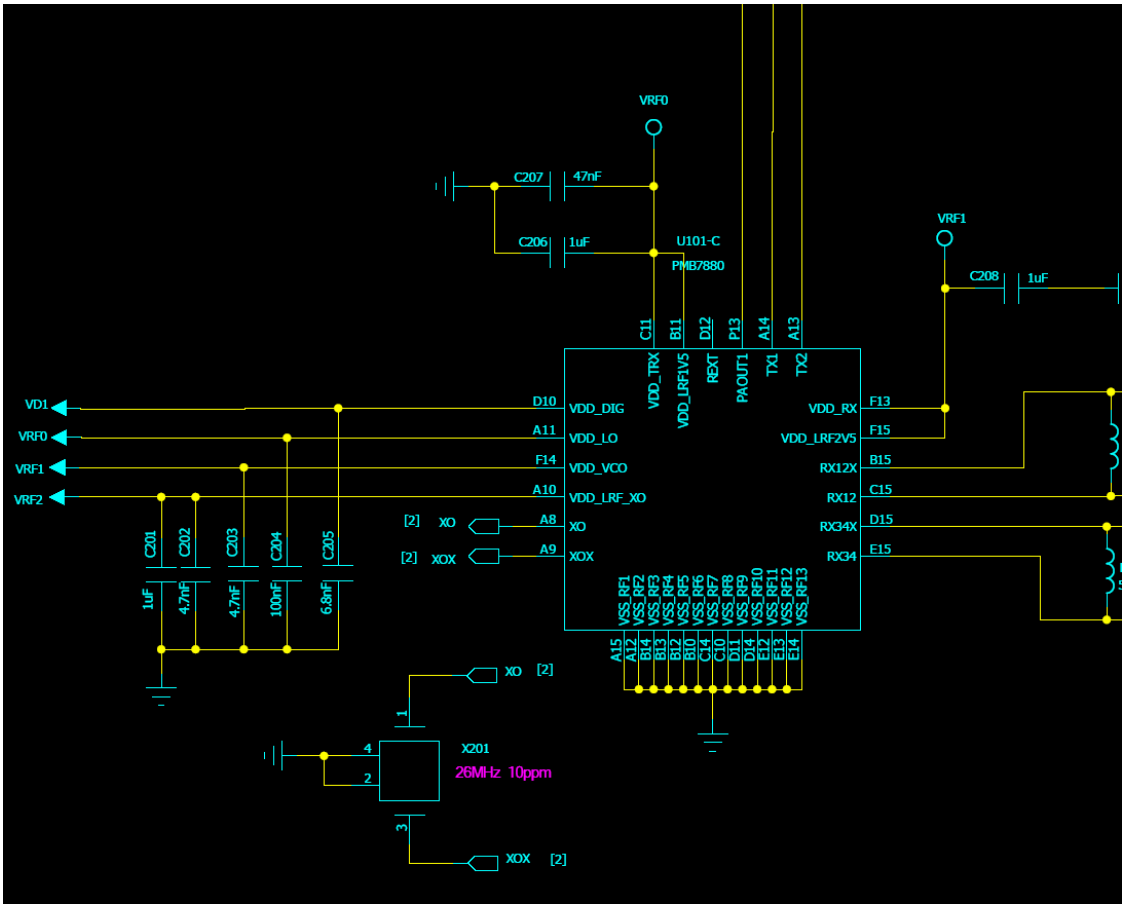
CIRCUIT DESCRIPTION

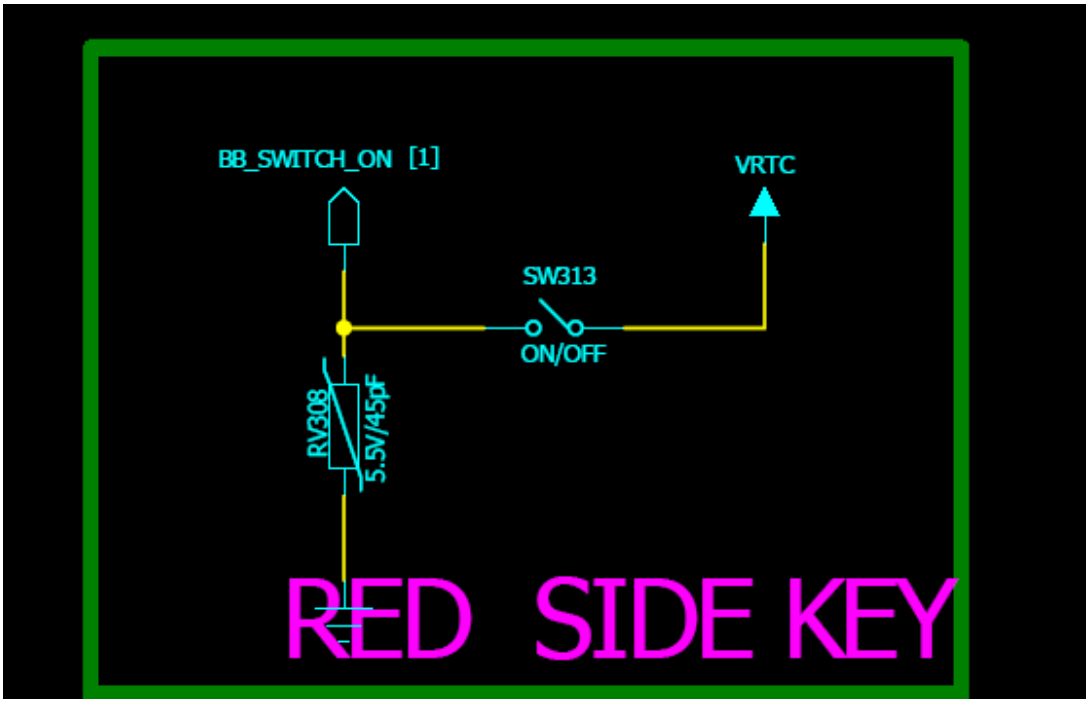
1、Transmitter/Receiver Circuit

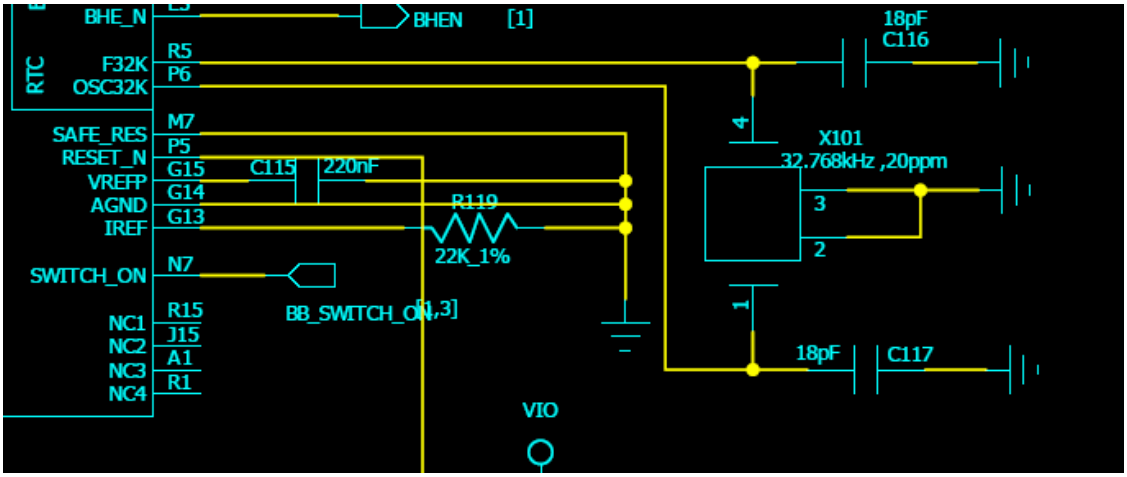


This circuit shows the transmitter and receiver path of GSM/DCS/PCS. The RF signal which is amplified by RF PA transmits to antenna through antenna switch andthan eradiate to the air. R206, C224, C225 make up of the antenna matching circuit.When receiver, the antenna receive the RF signal, and then demodulated byPMB7880 after band filter.


VRF0
C207
47nF
C206
1uF
U101-C
PMB7880
VRF1
C208
1uF
C11
B11
D12
P13
A14
A13
VDD_TRX
VDD_LRF1V5
REXT
PAOUT1
TX1
TX2
VD1
VRF0
VRF1
VRF2
D10
VDD_DIG
A11
VDD_LO
F14
VDD_VCO
A10
VDD_LRF_XO
VDD_RX
VDD_LRF2V5
RX12X
RX12
RX34X
RX34
F13
F15
B15
C15
D15
E15
[2] XO
A8
XO
[2] XOX
A9
XOX
C201
C202
C203
C204
C205
1uF
4.7nF
4.7nF
100nF
6.8nF
VSS_RF1
VSS_RF2
VSS_RF3
VSS_RF4
VSS_RF5
VSS_RF6
VSS_RF7
VSS_RF8
VSS_RF9
VSS_RF10
VSS_RF11
VSS_RF12
VSS_RF13
A15
A12
B14
B13
B12
B10
C14
C10
D11
D14
E12
E13
E14
XO [2]
1
4
2
3
X201
26MHz 10ppm
XOX [2]

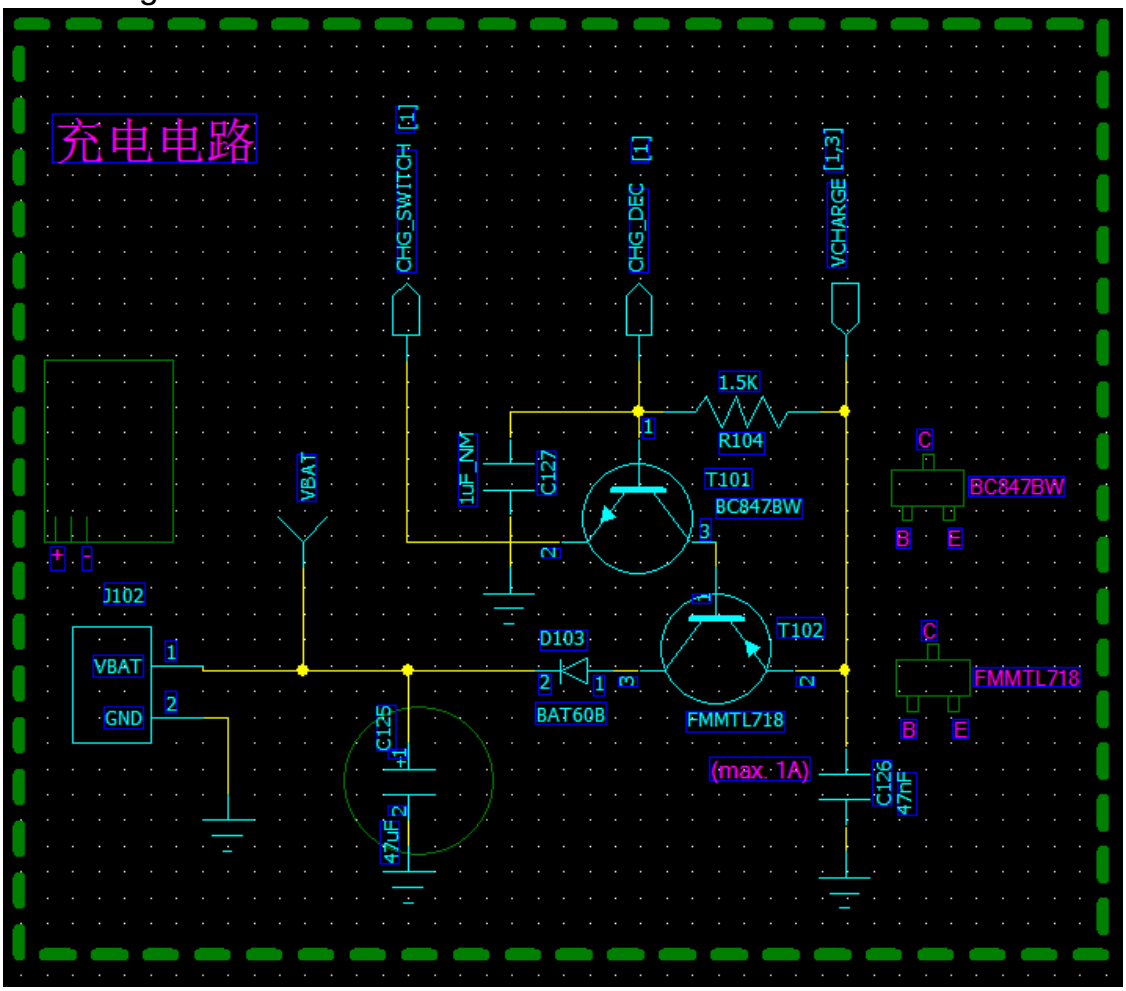
2、Power ON/OFF Circuit





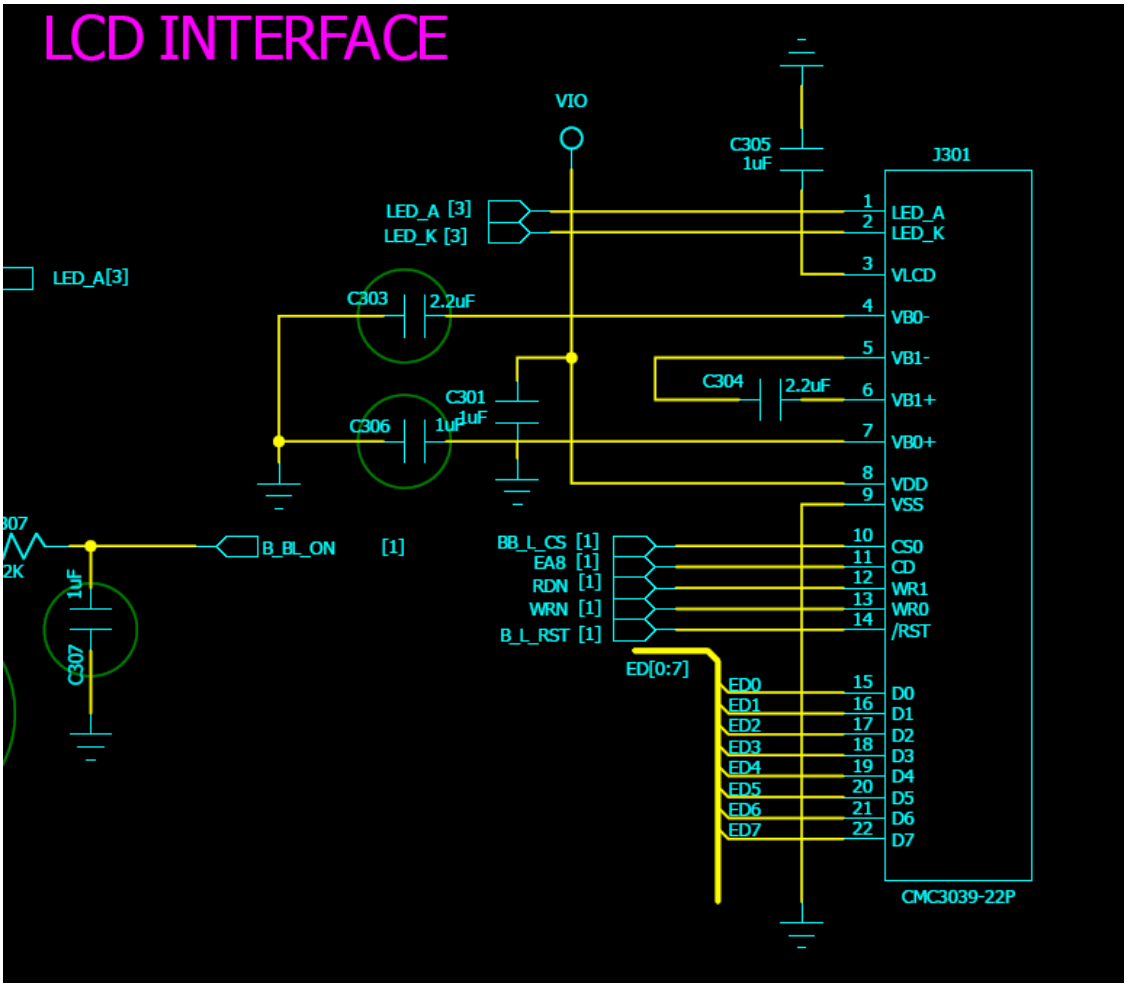
After inserting the battery, VRTC output voltage of 2V, and then the 32.768KHZ crystal start to work. Now press the power on/off switch SW313, then the inner program start initialing. Press the power on/off switch about 2s at normal work status, CPU PMB7880 will detect the signal and start the power off program.

3、Charger Circuit



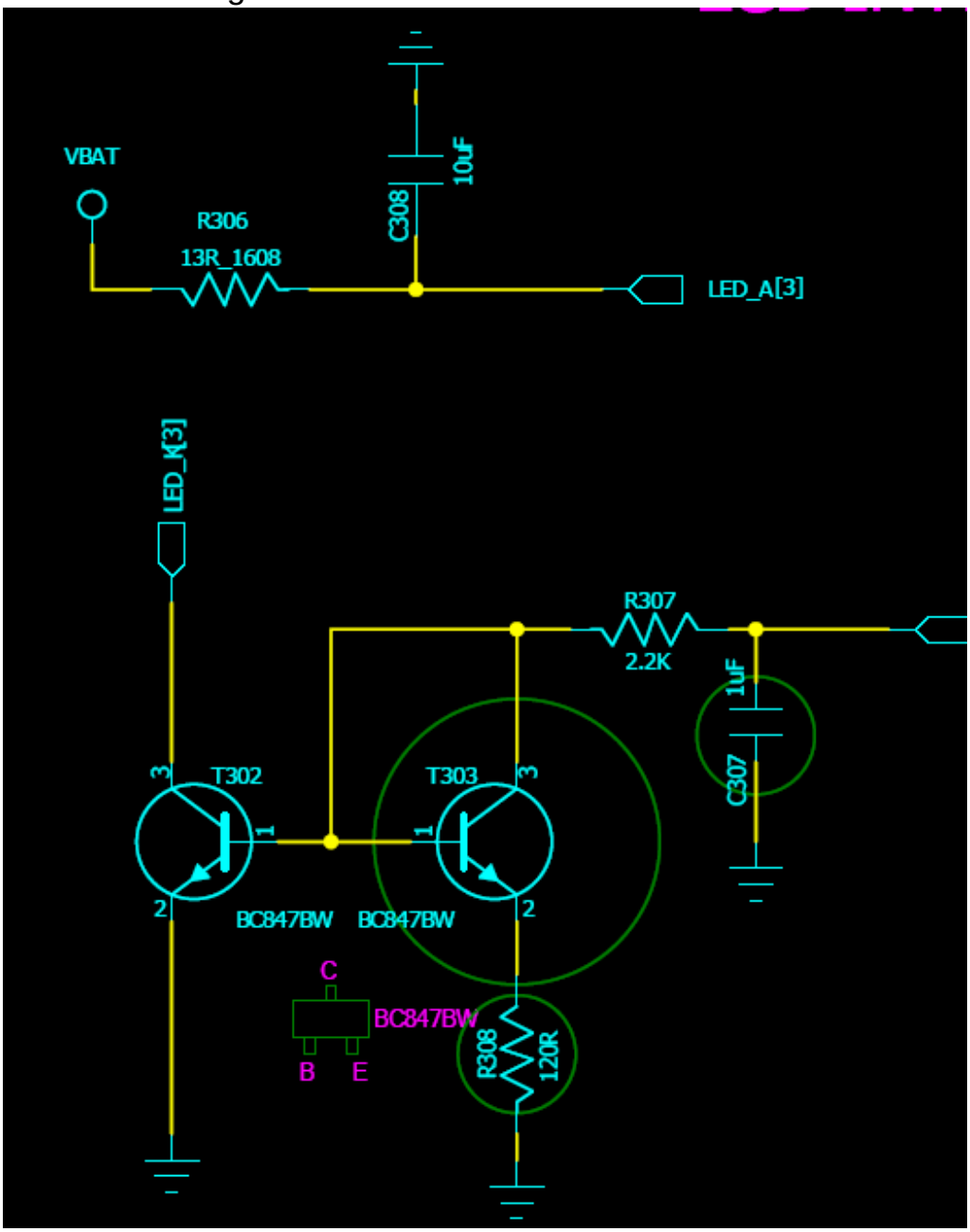
The PMB7880　integrate the charger control circuit. When inserting the charging Adapter, CHG_DEC detect high level, and start the charging program.

4、LCD Circuit



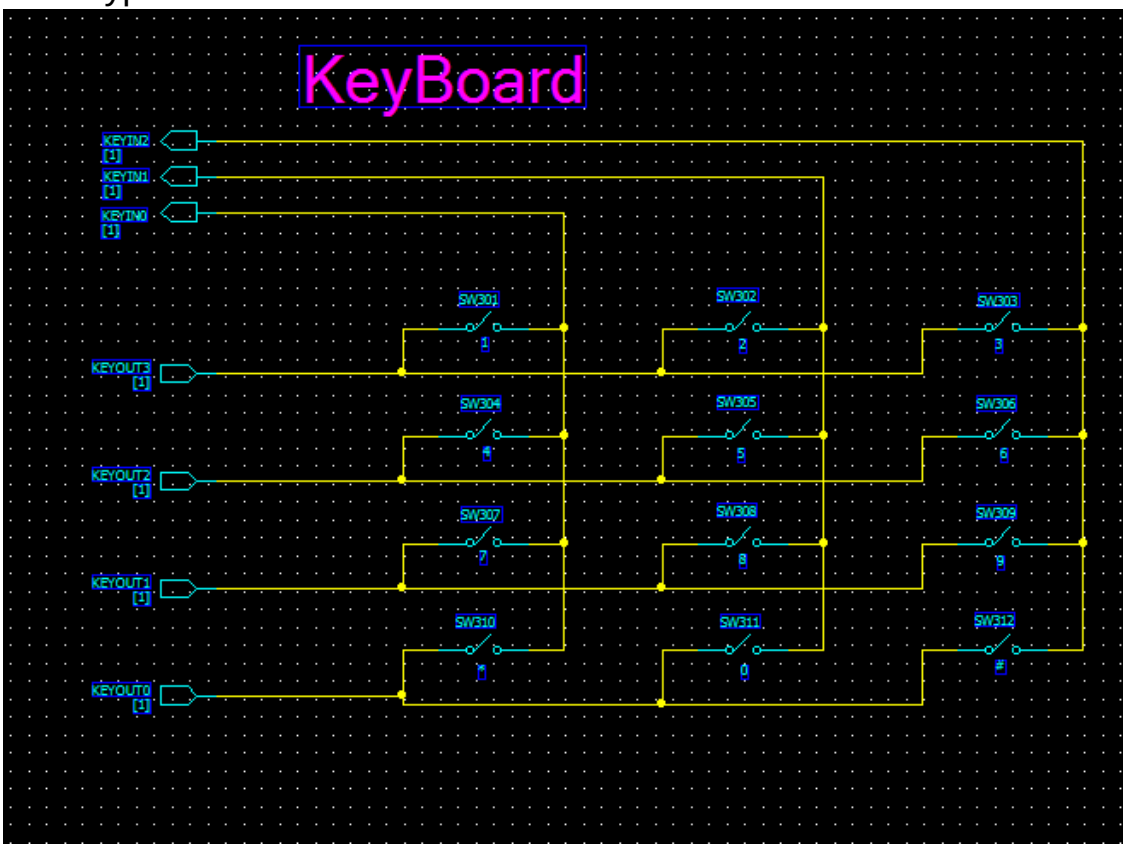
The LCD connects to PMB7880 through FPC. The signals are defined as follows:
VDD：LCD inner driver voltage，provided by PMB7880
RST：Reset signal
WR0：LCD writing signal
WR1：LCD reading signal
CS0： LCD chip select signal
CD: Register select
D0～D7：LCD data signal

5、LCD Backlight Circuit



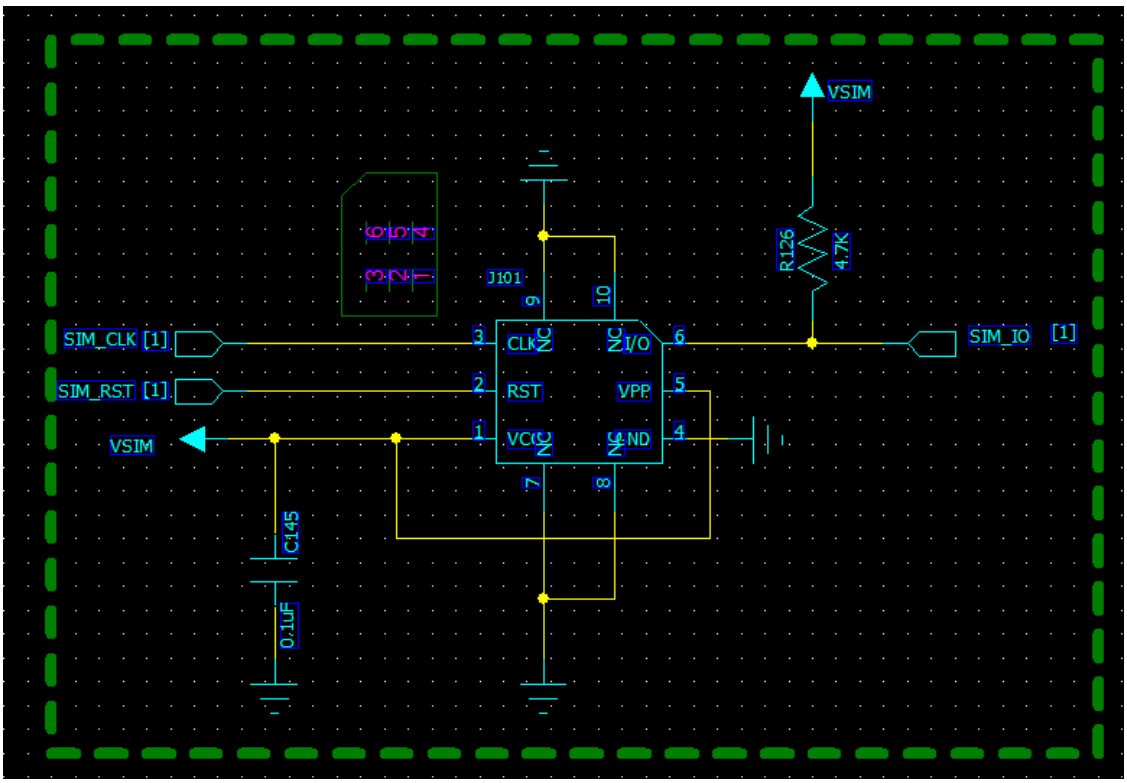
LCD backlight is Control by T302 and T303. B_BL_ON enable LCD backlight LED.

6、Keypad Circuit



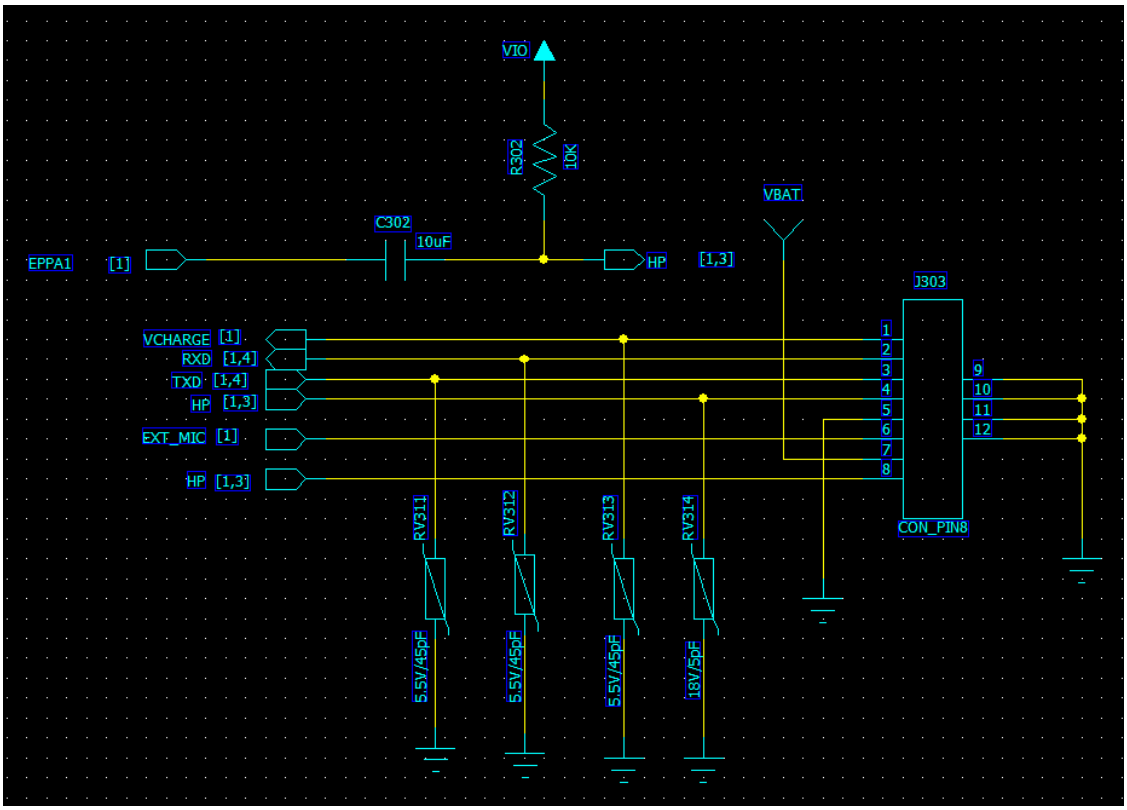
The keypad contains SW301---SW312

7.SIM Card Circuit



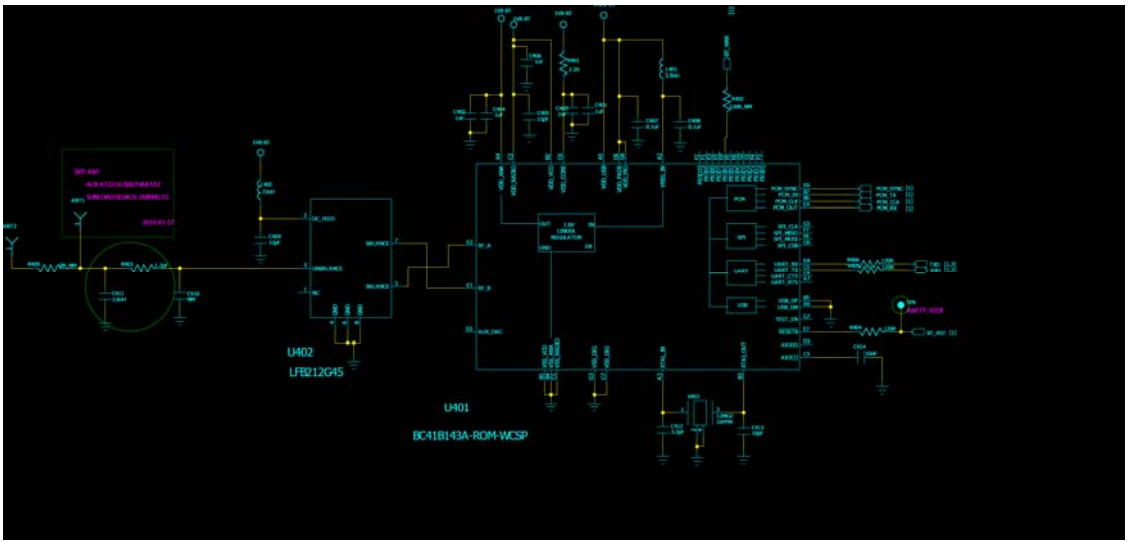
SIM card pin defined as follows：
VSIM：SIM card voltage supply,
IO：Data input/output
CLK：Clock signal
RST：Reset signal

8、I/O Circuit



The I/O circuit contains earphone port, UART port, charge input.HP is detecting pin for earphone insert. For normal it is high,
and become low when earphone insert.

9:Bluetooth Circuit



The Bluetooth chip is BC41, and the working frequency is 2400-2483.5MHz