Description of P2301B Wireless Mouse Circuit

The DC-DC switching circuit consisted of IC-U5(RT9261-33CX) and other components will provide +3.9V DC operating voltage. When the mouse is moving on the desktop ,the optical sensor IC-U1(ADNS-2051) receive the LED! Light reflected by the destop,then it send the signal to MCU-U3(JS5618). Pin No.3 ,pinNo.4 of U3 data signal TXD and control signal TXP send to modulate transistor Q2(9014) and oscillating audion Q1(2223Y) together . then combine as Coplitts Circuit and transmit. When the user move the mouse or **any press of the** mouse. Pin4 and Pin3 of MCU-U3 will lead out TXD data signal and TXP control signal, and transmit by surge circuit. Push the button of SW5, the ID code of the mouse will change. U2 (KS24C010) is the memorizer of MCU and store the ID code of the mouse. Q8(9014) is the reset circuit diaplasis circuit of MCU. Which connect together with the battery low detection IC-U9(RT9808-21CX), act as alter of connecting power, charging, charging competed etc. When Transistor of Q8 reset, the low power indicator IC-U9(RT9808-21CX) will driver Q13(MMBT3906) and the buzzer B1 will generate ‘BE” sound. When another battery low indicate IC-U5(XC61CN2402MR) detect the voltage of the battery drop below 2.4V, the output of Pin 1 will become low voltage, and Q11(MMBT3906) connect with IC-U6(NE4556) and other components nearby, start run the times base surge circuit. Every 40 seconds the buzzer and generate “BE BE” to alert as the mouse under low power situation. The battery low indicator IC-U5(XC61CN2402MR) and components nearby act as the stable fact charging circuit and control the input current of the batteries.