

## Circuit Description

1. Wireless Transmitter Circuit Description
  - a. **IC-ATA1160:** IC-ATA1160 is the integration of wireless controlling IC and optical IC. The optical part of ATA1160 transform the imaging of the mouse moving to the electronic signal, and then send to the controlling IC; the signal transmit from the antenna after modulated to frequency 27.045 MHz.
  - b. The clock signal of IC-ATA1160 is controlled by clock of oscillating controller.
  - c. When the optical part of IC—ATA1160 is working, the MCU will output the controlling signal Q1 from the PIN 3 to control the brightness of ID1.
  - d. The operating voltage of IC-ATA1160 is 3.0V.
2. Charging Circuit  
The input voltage of charging circuit is from the USB port of the computer (5.0V) , the electric current through D3,R19,R20,Q4, charging for the battery after controlled by U2-LM358.