

## **TX Operation Description**

Modulation Type: FSK

TX Frequency: 2402 MHz

DS-2135 is an optical and wireless mouse with frequency 2.4 GHz. The remote control distance reaches 10 meters. It contains rechargeable battery and may be charged from USB port.

The mouse is designed with 4 parts: Optical sensor U4 (ADNS-5030), MCU U3 (MA2628), RF module URFM (RFM5010C) and EEPROM U1 (93C46B). Q1 and Q2 etc. form circuits of charging and RF automatic stop function.

U2 converts battery voltage to a stable DC 3V for supplying the mouse. U3 receives signals of SWR, SWL and SWM when working. When the mouse moved by a user, Optical sensor U4 detects the movement and send a signal to U3. All signals are processed in U3 and are encoded. URFM is a wireless module. It contains of functions of modulation, amplification and transmission by antenna.

Q1 and Q2 etc. form a charging circuit to charge batteries when their voltage less than 2.9V. Charging is stop automatically when batteries are fully charged.

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