

TX Operation Description

Modulation Type: FSK

TX Frequency: 2469 MHz

DS-2152 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 U3 (ADNS6030), MCU U1 (HT82K68E), RF module (J3) and EEPROM U2 (24LC02). Q1 and Q2 etc. form circuits of charging and RF automatic stop function.

U6 converts battery voltage to a stable DC 3V for supplying the mouse. U1 receives signals of SWR, SWL and SWM when working. When the mouse moved by a user, Optical sensor U3 detects the movement and send a signal to U1. All signals are processed in U1 and are encoded. J3 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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