Circuit’s operation Description for DS-2128

Mouse projects the circuit of ware, is formed mainly by optical IC U1 and MCU and RF partial U2s.

U3, U4 and periphery related element composition DC-DC change-over circuit export steady 3 V and the voltage of 4 V respectively to U2 and U1 to supply power. X1 offers clock for system. X2 and the internal circuit of U2 enlarge circuit to RF modulation. When mouse moves on top of a table U1 can detection arrive this kind of move and turn data deliver to U2, U2 at the same time takes over the information of button and encoder, all informations go through coding after go through the modulation of radio frequency enlarge after from the 8 foot outputs of U2 and from antenna project free space.

SW-ID is for yard switch, press rear U2 to project a information yard make receiver carry out dimension a communication to it. D3 is low voltage indicator light, when battery voltage is below , if you use this mouse lamp, the energy that can twinkle and reminds battery has used quickly. K1 switch can be automatic to switch working state, according to next K1 because the voltage drop of supply U2 is low, make whole system have entered Xiu the state of eye.

Receiver is formed by RF receiver U1 and MCU U3 and ID yard memory ware U2. Y2 and environmental element composition local oscillator, project ware the signal that projects from antenna induction rear input and book shake to mix frequently rear B1 strain wave, by X1, carry out frequency detection. Detection after from Q1 plastic after from the 14 feet of U1 lose U3, U3 passes through USB interface CN1 biography for the signal that taken over after decode to computer. If press for yard switch SW, U3 will mouse project ware hair come to ID yard signal preservation go to EEPROM U2 in, in order machine lose electricity after next again load addition again can with project ware carry out only communication.