SAXM105A1

Wireless Optical mouse

Block Diagram of TX

```
                 Sdio / Sclk                                                    TX:27.045MHz
  OPTICAL                          ID SW                                           ANT
  DETECT                                             Crystal 76.8KHz

                 Z1,Z2
  ENCODER                      MICROCONTROLLER  ------->      TX
  DETECT                                                   RF MODULE

                                                                   Crystal(27.042MHz)
                                     +3.0V
  BUTTON                          DC/DC
  DETECT                        CONVERTER
           R, L, M

  BATTERY LOW
    DETECT                         BATTERY
```
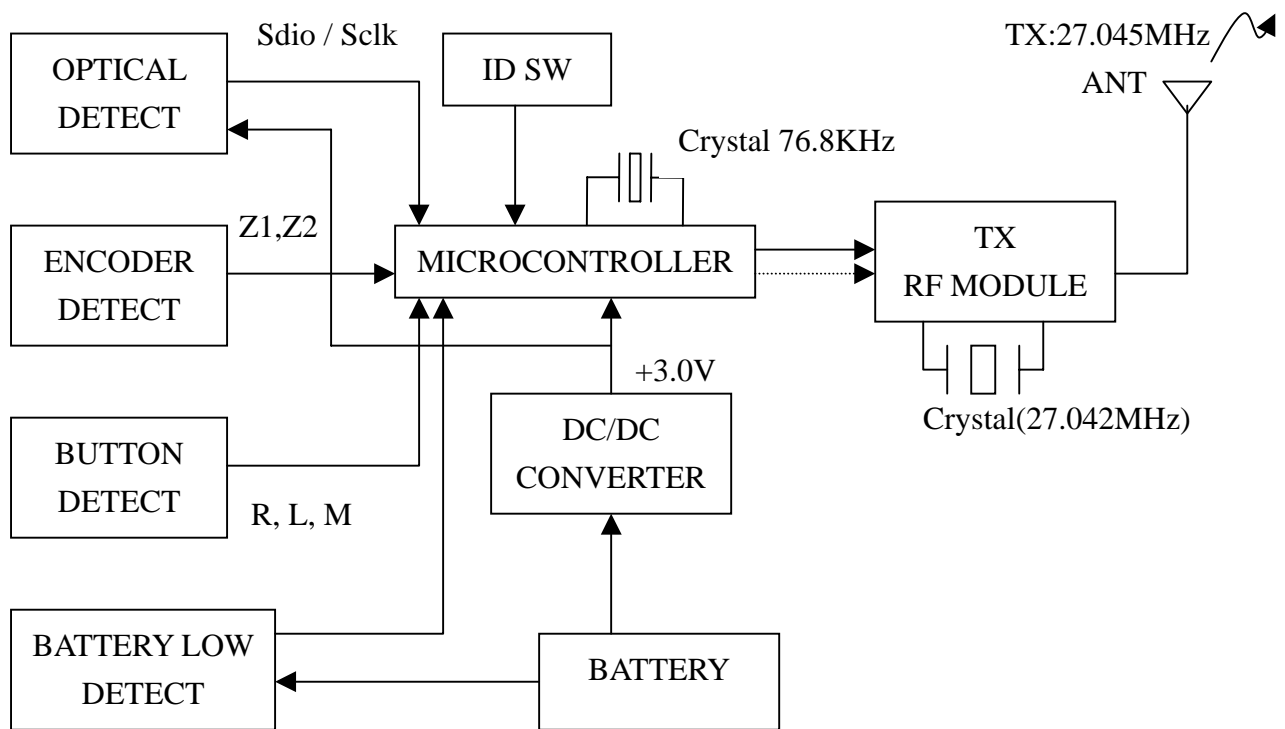
Mouse:

When Power on, Input Voltage is first ensured to 3.0V by DC to DC convertor, and Power Reset is done. Random Mouse ID can be sent then. After detecting motion signals from X/Y/Z Axis and also signals from button switches, controller would encode the signals and later modulate to 27.092MHz radio frequency and transmit to the air.

Block Diagram of Receiver

For Mouse

PC

ID SW

Led Indicator

27.045MHz

Mouse
Micro-controller

Demodulation

USB/PS2 Port

6.0MHz

EEPROM

26.59MHz