

BD-8008 Circuit Description

Sensor PAN3101 translates the mouse movement into X and Y coordinates and passes to MCU MA6221-S7K. Sensor PAN3101 Work Clock Frequency is 12MHz, Light source is use LED(Light –Emitting Diode)。

MA6221-S7K encode the mouse button data and mouse movement X and Y coordinates data and passes them to RF circuit in it. The RF circuit transmits these data to the Receiver. MA6221-S7K use work clock Frequency 76.8KHz crystal. RF circuit use a 27.042MHz crystal. MA6221-S7K IC has DC/DC power processor in it.

Receiver first uses MC3361 to perform RF amplification, mixing , demodulating then pass the data to MA6162-25 IC. MA6162-25 decode these data with its decoding unit inside, and passes decoded data to inside USB interface unit. USB interface unit passes all these data to the computer USB processor. The USB processor then processes all incoming instruction, The power for the receiver is supplied by PC USB. MC3361 use a 26.590MHz crystal, MA6162-25 use a 6.0MHz crystal.