Operational Description

The circuit is by MCU spcp16a-06B and Sensor ADNS-2051.

MCU Spcp16a-06B is a USB+PS/2 mouse controler, it provided 3D 3Keys mouse control and i/o port for Sensor.

SENSOR ADNS-2051 is a optical sensor used to implement a non-mechanical tracking engine for computer mouse. It's based on optical navigation technology, which measures changes in position by optically acquiring sequential surface images and mathematically determining the direction and magnitude of movement. Default resolution is specified as 400 cpi, with rates of motion up to 14 inches per second (ips). Resolution can also be programmed to 800 cpi.

In the Circuit, MCU oscillated by X2 (6.0 MHz) and C4.C5, By a USB plug to PC, And the SENSOR ADNS-2051 oscillated by X1 (18.432MHz).