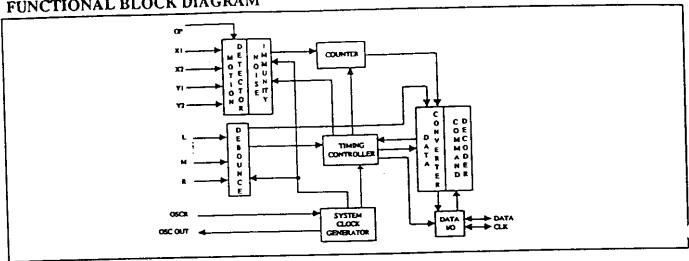
EXHIBIT E

Block Diagram



## FUNCTIONAL BLOCK DIAGRAM



## PIN DESCRIPTIONS

Symbol	NO S	a punction .
V <sub>DD</sub>		Power
OP	I	X, Y inputs.
ਬ <sup>*</sup> ੋ		Floating: Comparator input.  GND: Schmitt trigger input.  Short to OSC OUT: Testing Mode.
OSCOUT	0	Clock output.
CLK	NO	8042 auxiliary port CLK line.
DATA	ΙΟ	8042 auxiliary port DATA line.
V <sub>ss</sub>	1	Ground
R M L	I	Three key-switches exert seven different combinations totally. Both key-presser and key-released signals will be sent accomplanied with horizontal and vertical state. The status of the key-switches will be preserved, whenever the value of horizontal or vertical counters will present at DATA. And the debounce interval for both key-press and key-release is 12 ms.
X1 X2 Y1 Y2		Four photo-couple signals denote UP, DOWN, LEFT, and RIGHT state.  During the scaning period, as long as the photo-couples change their states, the value of vertical or horizontal counter will increase or decrease accordingly.
OSCR	I	30 Kohm ±5% pull low for 35 KHz oscillation.

## **FUNCTION DESCRIPTIONS**

## A) Operating mode

There are four operating modes in PS/2 mouse

i). Reset Mode: In this mode a self-test is initiated during power-on or by a Reset command. After reset signal, PS/2 mouse will send: