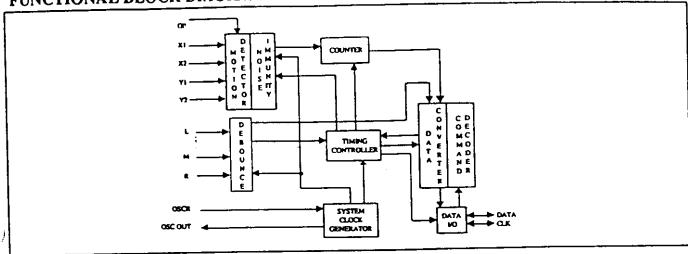
# EXHIBIT E

Block Diagram



## FUNCTIONAL BLOCK DIAGRAM



## PIN DESCRIPTIONS

Symbols	I/O 🏂	Function (**)
V <sub>DD</sub>		Power
OP	I	X, Y inputs.
	1	Floating: Comparator input.
		GND : Schmitt trigger Input.
	7	Short to OSC OUT: Testing Mode.
OSCOUT	0	Clock output.
CLK	I/O	8042 auxiliary port CLK line.
DATA	NO	8042 auxiliary port DATA line.
V <sub>SS</sub>		Ground
R	I	Three key-switches exert seven different combinations totally. Both key-pressed
М		and key-released signals will be sent accomplanied with horizontal and vertical
L		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
	ļ	for both key-press and key-release is 12 ms.
XI		Four photo-couple signals denote UP, DOWN, LEFT, and RIGHT state.
X2	•	During the scaning period, as long as the photo-couples change their states, the
YI		value of vertical or horizontal counter will increase or decrease accordingly.
Y2		
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: