AKM-K02

Wireless Keyboard

Block Diagram

ID SW	Key Matrix

Micro-controller

OSC

AMP

27.095MHz

32.768KHz

27.092MHz

Battery Low Detect

DC/DC Converter

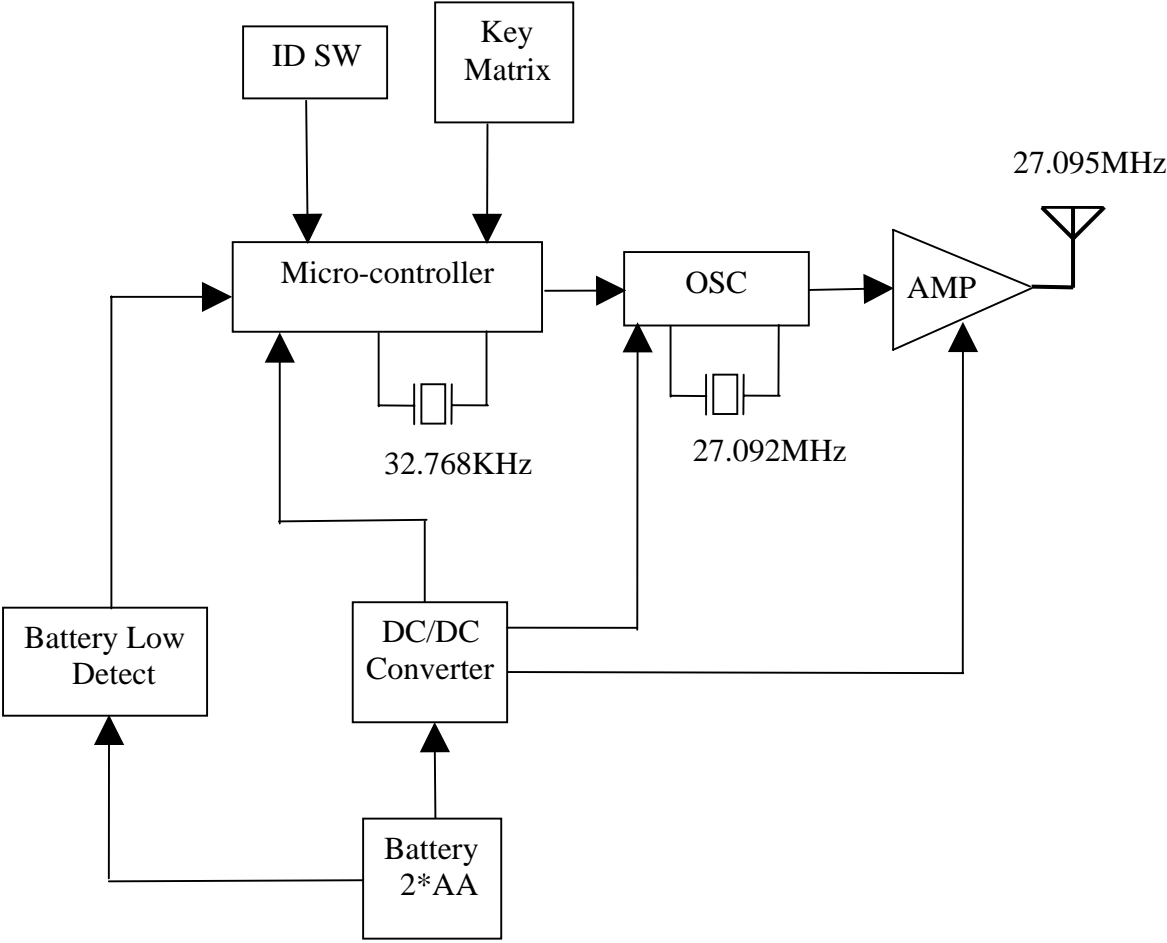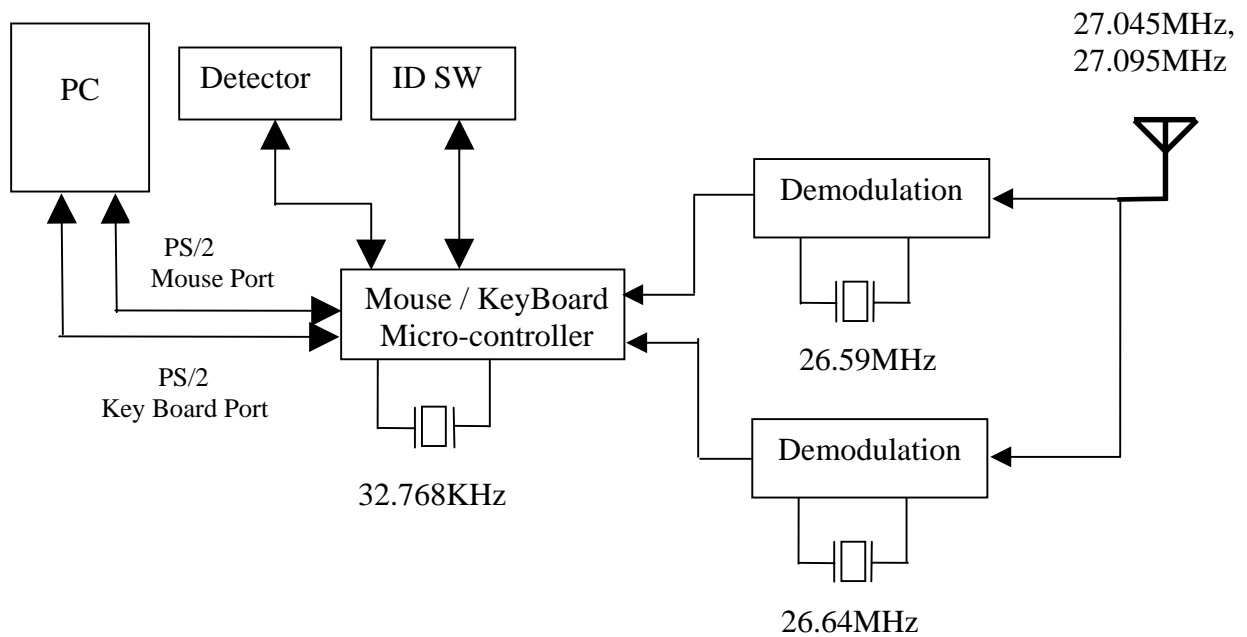Battery 2*AA

When Power on, Input Voltage is first ensured to 3.0V by DC to DC convertor, and Power Reset is done. Random Keyboard ID can be sent then. After detecting signals from Keymatrix , controller would encode the signals and later modulate to 27.095MHz radio frequency and transmit to the air.

AKM-K02

Wireless Receiver

Block Diagram

| PC | Detector | ID SW | | 27.045MHz, 27.095MHz |

PS/2
Mouse Port

Demodulation

Mouse / KeyBoard
Micro-controller

26.59MHz

PS/2
Key Board Port

32.768KHz

Demodulation

26.64MHz

Receiver:

When Mouse & Keyboard send Random ID signals, press ID switch of the receiver and link between them will be set up. Any time RF signals from mouse or keyBoard reach the Antenna, demodulation will be done and later decoded by the controller. Finally data of mouse and keyboard will be transfered to PC via PS/2 mouse port or PS/2 keyboard port seperately.