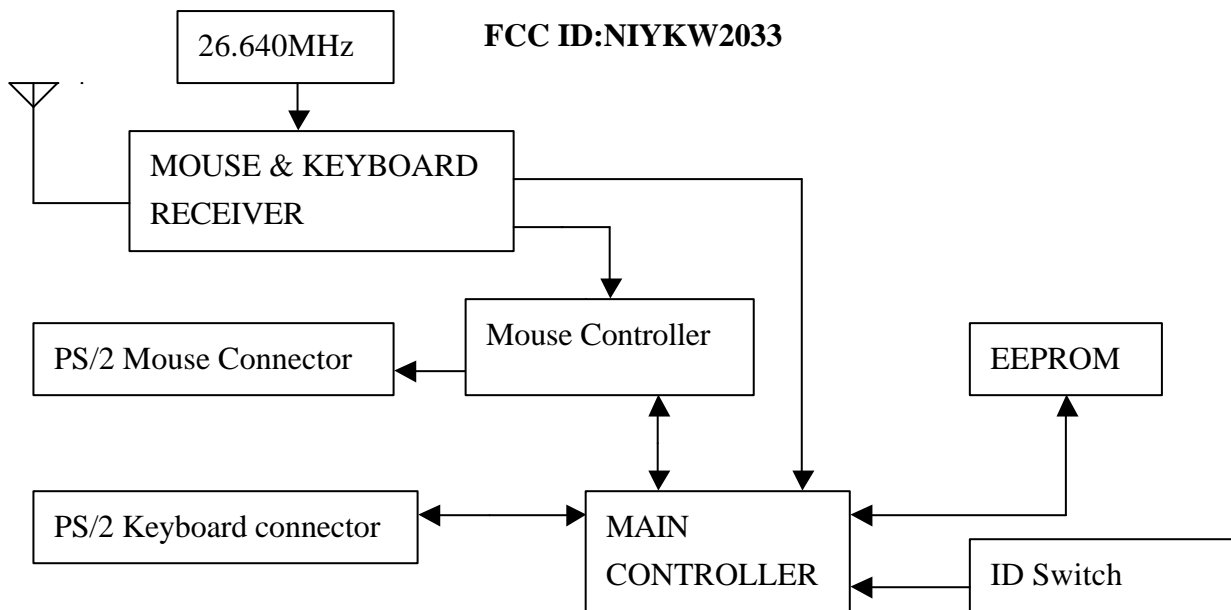


Circuit Description of RX2033



Mouse and Keyboard Receiver consists of two individual receiver modules for receiving and demodulating mouse and keyboard data respectively.

Mouse Controller is a specific ASIC designed for receiving data stream, decoding data stream, identifying the received data stream, and form a 3-byte or 4-byte mouse data packet. It also communicates with the host PC to perform the power-on initialization on mouse port.

ID Switch is a TAC switch, used to initialize the sequence of updating a new identification code sent from the RF keyboard.

Main Controller is a general purpose microcontroller programmed to receive data stream, decode data stream, identify data stream, and form a variable length of keyboard packet and send it to the host. It also takes care of EEPROM read/write operations from the Mouse controller, and does real access to the EEPROM. The Main Controller communicates with the host PC to perform the power-on initialization on the keyboard port.

EEPROM is a non-volatile memory device used to save identification codes of mouse and keyboard. Whenever the RX2033 is powered on, the main controller reads these two identification codes, and passes the one belonging to mouse to the mouse controller.

PS/2 Mouse and Keyboard Connectors are two identical PS/2 connectors (with different color or different icon) which connect directly to a PC's PS/2 mouse and keyboard ports respectively. Communication is done through these two connectors.