System Overview

The input status of the trackball is monitored by a microcontroller on the Transmitter board. Whenever the microcontroller sees a change in the status, it sends a stream of data to the microcontroller on the Receiver board through an RF link. The receiver microcontroller will extract the information carried in the data stream and report to the PC by the PS2 or USB connection. There is a channel selection mechanism on both Transmitter and Receiver to avoid jamming by another user in the same frequency channel. The RF carrier is FSK modulated by a stream of Miller Code base band signal.