

Aerolink Keyfob Circuit Description

The Aerolink Keyfob is a simple On/Off Keyed keyfob-style transmitter with an internal, integrated pcb-trace style antenna. The keyfob receives its power from a small 3v Lithium button cell battery (type CR2032). When the power switch is off, there will be no activity when pushing any of the buttons. However, when the power switch is on, the keyfob is normally in sleep mode until the user presses one of 5 buttons, which wakes the microcontroller. The microcontroller, operating at 3.2Mhz, wakes up and sends out manchester encoded data to the transmitter section. The transmitter section consists of a SAW resonator stabilized printed circuit LC tuned-tank transistor oscillator operating at a nominal frequency of 433.92Mhz.