

RKE4331 Keyfob – Circuit Description

The RKE4331 Keyfob is built upon the following major components:

- PIC12LF1840T39A Microcontroller plus UHF Transmitter
- 26 MHz surface mount crystal

The RKE4331 Keyfob is a command and control (remote control) transmit only device. Upon pressing one of four push buttons, the keyfob transmits on 433.92 MHz an encoding sequence to be decoded by a receiving station to perform a function (such as opening or shutting a door).

The transmitter is a fractional N synthesizer with integral power amplifier. The 8-bit RISC microcontroller configures the transmitter and controls the data sequence. An external 26 MHz crystal provides the reference frequency for the transmitter. The microcontroller clocking is performed by an internal oscillator.