

**Microcontroller-Based Remote Locator Using
Asynchronous Serial Communication**

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Abstract

The goal of this project is to develop a remote locator device that is used to find lost items by sending a digital code via an RF signal to small remote units connected to various items in the home, such as keys, TV remotes, etc. When an item is lost, the user scrolls through a LCD screen. The name of the lost item is found in the locator menu and the locator button is then pressed. This causes the base station to transmit a unique digital code corresponding to the lost item. All the remote units receive this signal and compare the transmitted digital code to the stored code. The remote unit in which the digital codes match produces an audible alarm to allow the user to locate the item. The user is able to turn the alarm off on the portable device or use a button on the base unit.

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