

Building a remote control for some household appliances using the 8051 microcontroller

Nguyen Duy Linh

Abstract: In the context of the growing advancement of information technology and automation, building a remote control system for household appliances has become essential. This project aims to develop a comprehensive solution based on the 8051 microcontroller to manage and control devices such as fans, lights, and refrigerators over a wireless network. The research method combines theory with experimentation, including circuit design, source code writing, and system testing in a real-world environment. The expected results will contribute to improving energy efficiency and enhancing user experience.

Keywords: remote control, 8051 microcontroller, home automation