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Abstract

Multi-Channel Self-Learning Remote
Control Receiver

Abstract

Most of the household appliances in the market are equipped with infrared remote control. People accustom to turn on and off appliances with this device. People have their living rooms littered with remote controls. However, each remote control can only manipulate a single appliance that they are designated for. We have designed a special infrared receiver in this research which can receive the control codes in order to turn on and off a control relay.

In this system that we designed, infrared signals are the main control media. With a simple modification, we can turn any control device into a self-learning device. The system designed in this research provided a two-channel control. The controller “learns” the infrared control codes from any common household remote control device. The controller also provides two AC overload sockets with 1500W output control.

In order for user to easily learn how to manipulate this system, we separated this system into two parts: a power supply module and a micro-computer controlling receiver module. An 80 cm wire links both modules together. After an infrared receiver detects an incoming signal, through a EM78P156 micro-controller, we can manipulate the current flows to either one of the sockets.
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