

ESP1856

## **Electrical Appliances Control Prototype by Using GSM Module and Arduino**

The development of remote control technology has grown rapidly along with the development of communication technology nowadays. The simplest communication technology available is by using GSM protocol. In this paper, a prototype of electric appliance control tool via SMS by using GSM is proposed. GSM protocol was chosen because it does not depend on mobile devices' platform. GSM SIM 900 and Arduino for controlling a relay module were utilized here. Relay module worked in accordance with orders given through SMS and the mobile device then received the feedback of the command. For testing purpose, ten (10) different types of input string as a command control was proceed. Relay worked according to orders sent from the input string submitted and feedback messages from the command given previously was provided.