Abstract

In past few years, home automation & remote control and monitoring systems have seen a rapid growth in terms of technology. This paper gives a review of these systems based on existing technologies and also proposes a GSM-Bluetooth based light controller and remote monitoring system. This system has simple features designed with the objective of minimum power consumption using infrared sensor for controlling lights, fans and other appliances which are controlled via SMS using a GSM module. A Bluetooth module is also interfaced with the main microcontroller chip. This Bluetooth module eliminates the usage charges by communicating with the appliances via Bluetooth when the application is in a limited range of few meters. The system informs user about any abnormal conditions like intrusion detection and temperature rise via SMS from the GSM module or by Bluetooth module to the user’s mobile and actions are taken accordingly by the user.

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Index Terms
  Computer Science  Embedded Systems

Keywords
  Gsm  Bluetooth