Abstract

To control home and office electrical appliances from anywhere we designed a cell phone based remote controller using Dual-tone Multi-Frequency (DTMF) technique. The circuit designed consist of a DTMF decoder which receives and decodes the signal from the DTMF tone generator which generates frequencies according to the number pressed on the dial pad of the cell phone and accordingly performs the required operation. Using cell phone, we were able to control home electrical appliances wirelessly and remotely which has an advantage over limited range of Bluetooth or ZigBee operated devices.

References


**Index Terms**

Computer Science | Communications

**Keywords**

Cell phone, Dual-tone Multi-Frequency (DTMF), DTMF decoder, Bluetooth, ZigBee