



IEEE REFERENCE:

Wireless Device Switching using Bluetooth Communication

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Title of the project	:	Wireless electrical apparatus Controlling System Using Bluetooth Communication
Domain	:	Embedded Systems Design, Wireless Comm.
Software	:	Embedded C, Keil, Proload
Microcontroller	:	AT89S52
Power Supply	:	+5V, 750mA Regulated Power Supply
Display	:	a) LCD b) LED
LCD	:	HD44780 16-character, 2-line (16X2)
Communication Device	:	RF Module 433MHz
Crystal	:	11.0592MHz
Applications	:	Home appliances, industries, manufacturing Companies, shopping malls etc.
Developed By	:	M/S Wine Yard Technologies
Phone	:	040-6464 6363, www.WineYardProjects.com



WIRELESS ELECTRICAL APPARATUS CONTROLLING SYSTEM TROUGH BLUETOOTH COMMUNICATION

ABSTRACT

Conceived initially by Ericsson, before being adopted by a myriad of other companies, Bluetooth is a standard for a small radio chip to be plugged into computers, printers, mobile phones, etc. A Bluetooth chip is designed to replace cables by taking the information normally carried by the cable, and transmitting it at a special frequency to a receiver Bluetooth chip, which will then give the information received to the computer, phone whatever.

It is one of real time applications in industry. Now a days all electrical devices in Industry controlled by manually, But in industry so many electrical devices is there. To control all electrical devices we need lot of "MAN POWER" if manpower increases Maintenance cost also increases; this is one of the drawbacks of industry, So to avoid such type of drawback we should need some WIRELESS controlling systems, One of wireless communication system is Bluetooth communication system.

That is why we have selected Bluetooth, This is not only used in industry but also used in Domestic Purpose as home appliances controlling using Bluetooth remote, some persons who are unable to walk to switch board such type of persons need this type of project and also Who are old persons, why because you can switch ON/OFF load with remote, without moving away from your place,



In this project we have Six Electrical loads(bulb, AC, motors, heaters, and power controlling systems). In Industry we have different types of loads at different locations. We can control all loads at a time from one place(control room) without connecting any physical wire between loads and control room, In this project we are using Bluetooth module, 89c82 microcontroller, and some discrete components.

In this project we should notes one think that is AC loads should not directly connected to microcontroller however AC may be entire into controller due to this your controller may be destroyed, To avoid such type of drawback we need some drivers, In this project we are using TRAIC as load controller (as a switch) so we need TRAIC drivers. We have so many Traic drivers one of them is MOC 3021 used as a Traic driver in between Microcontroller to AC loads,

