

SMS Based Wireless E-Notice Board

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Abstract— In this technical paper sms based wireless e-notice board explains how to establish an effective and reliable communication between a mobile phone and a microcontroller using GSM modem. This GSM based e-notice board has various applications used in several domains including banks, stock exchanges, traffic control, public advertisements, educational sector i.e., in schools and colleges etc. In all the above mentioned applications we will use a GSM MODEM, but with a little change in hardware. Along with this I will explain you how this applications are used in low time-to-market and how to upgrade the software resulting low NRE(Non recurring Engineering). This technical paper plays a prominent role in the state-of-the-art scenario to develop authentic and pocket friendly products where the real time market is relentlessly shrinking.

Keywords— Bridge-rectifier, GSM, Interfacing, LCD, microcontroller, MODEM, mobile communication, software, SIM, transformer, traffic control.

I. INTRODUCTION

Wireless communication has announced its arrival on big stage and the world is going mobile. As we wish to control everything and without moving an inch, this electronic notice board is possible through Embedded systems. The use of Embedded systems in the communication has given rise to many interesting applications that ensures comfort and safety to human life. GSM(Global System for Mobile Communication) is globally accessed by more than 212 countries and territories. Global system for mobile communication is optimized for duplex voice telephony. GSM, initially developed for the replacement of first generation (1G) technology, now it is upgraded for second generation (2G) technology and third generation (3G) technology[1].

With the alliance of microcontroller, GSM MODEM could be further used for some of very innovative applications including, GSM based home security system, GSM based robot control, GSM based DC motor controller, GSM based stepper motor controller, GSM based voting machine-control etc.

II. MAIN FUNCTION OF GSM BASED E-NOTICE BOARD

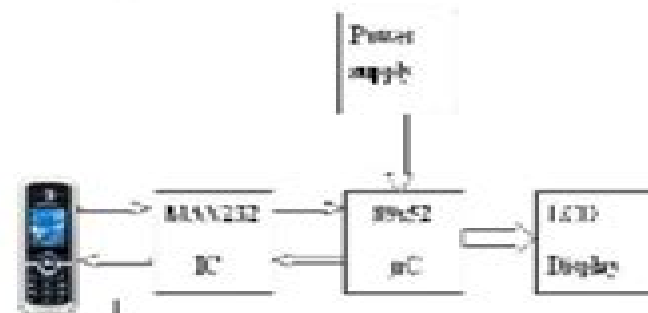
1. Using GSM mobile we can send message to any distant located e-notice board from any remote area.

2. By interfacing the GSM modem with mobile phone ,we can send text message from any remote area.

3. GSM MODEM, SIM, LCD(Liquid Crystal Display), microcontroller power supply and also some connecting wires are the common peripherals required for developing any GSM based applications.

As the components required for the application are available at pocket friendly prices and due to their ease of accessibility enhanced GSM based applications.

Block diagram of GSM based wireless e-notice board



Block diagram of GSM- wireless based E-notice board.

Essential components for assembling GSM based applications including:

1. GSM MODEM
2. SIM
3. Power supply or Power Adapter
4. Bridge Rectifier
5. LCD
6. Microcontroller
7. Transformer

Let's start discussion one by one.

1. GSM MODEM:

It is a wireless MODEM-just like dial-up MODEM works with GSM wireless network.

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Fauzal Naim Zohedi



Sms Based Wireless E Notice Board Ijetae:

Wireless Electronic Notice Board Fauzal Naim Zohedi,2007 This project is designed to develop a Wireless Electronic Notice Board It is widely used to display latest information anywhere such as faculty shop mosque and other places This Wireless Electronic Notice Board offers the flexibility to user to control the information display within 25m range The information is transmitted using RF as wireless technique The Wireless Electronic Notice Board consists of two module transmitter and receiver module There are five parts in transmitter module and four parts in receiver module In transmitter module there are keypad Liquid Crystal Display LCD Microcontroller encoder and transmitter In receiver module there are receiver decoder microcontroller and dot matrix This project is based on MC68HC11A1 microcontroller Assembly language is used to program the microcontroller Author

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