

WIRELESS ELECTRONIC NOTICE BOARD USING GSM

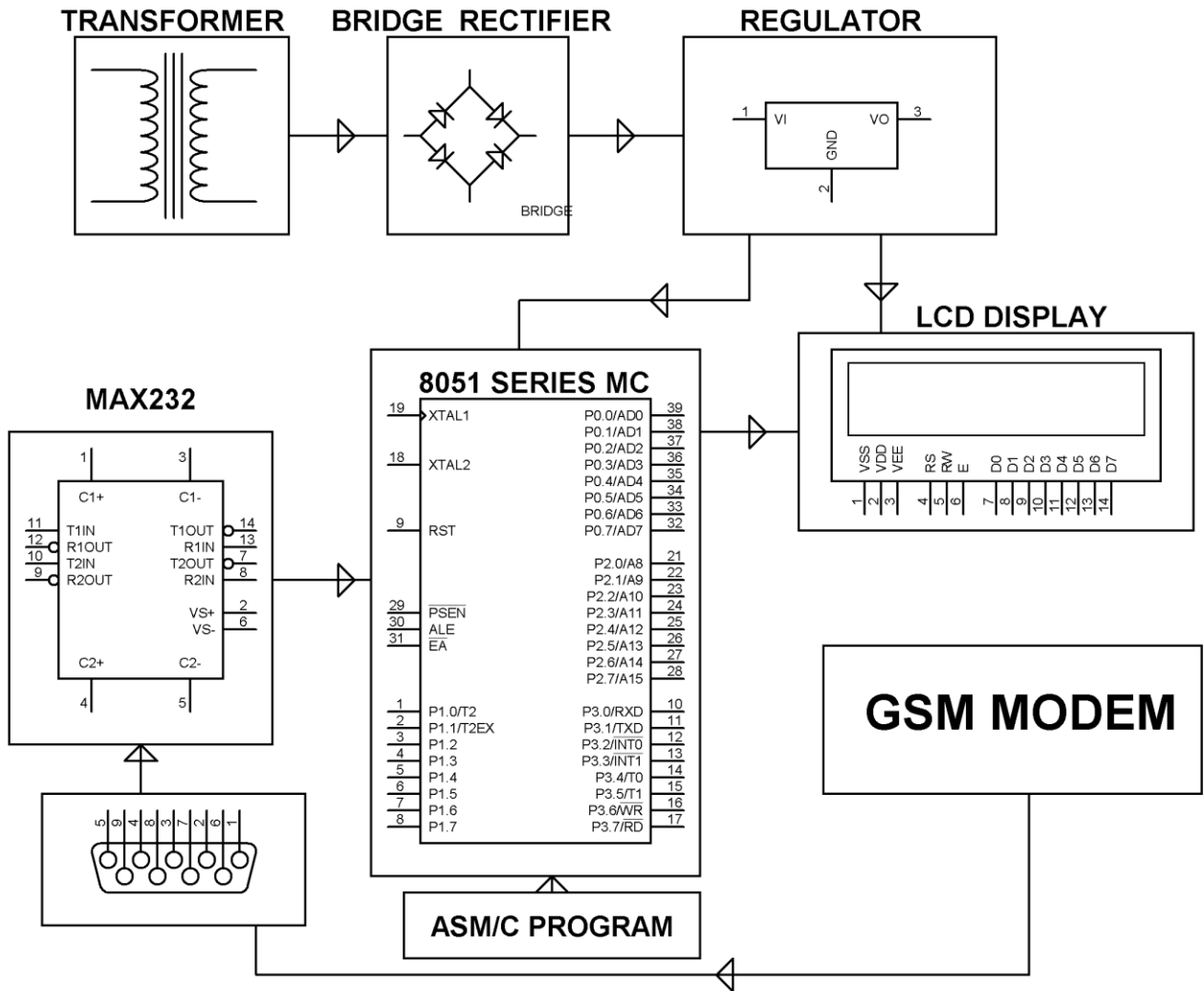
ABSTRACT

Notice Board is primary thing in any institution / organization or public utility places like bus stations, railway stations and parks. But sticking various notices day-to-day is a difficult process. This project deals with an advanced wireless notice board.

The main objective of this project is to develop a wireless notice board that displays messages sent from the user's mobile. When a user sends a message from his mobile phone, it is received by a SIM loaded GSM modem at the receiver unit. The GSM modem is duly interfaced through level shifter IC for establishing RS232 communication protocol to the microcontroller. The message so received is thus sent to the microcontroller that further displays it on electronic notice board which is equipped with a LCD display interfaced to a microcontroller from 8051 family duly powered by a regulated power supply from mains supply of 230 volt ac.

Further development to this project can be done by providing message storage facility by non-volatile memory i.e. EEPROM attached to the microcontroller for retrieval of old messages if required. It can also be expanded to a bigger LCD screen.

BLOCK DIAGRAM:



HARDWARE REQUIREMENTS:

8051 series Microcontroller, Level Shifter IC, GSM module, LCD, Resistors, Capacitors, Diodes, Transformer, Voltage Regulator.

SOFTWARE REQUIREMENTS:

Kiel compiler

Language: Embedded C or Assembly.