# Wireless Electronic Notice Board with Multi Point Receivers using RF Communication System

<table>
<thead>
<tr>
<th>Title of the project</th>
<th>Wireless Electronic Notice Board</th>
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<tbody>
<tr>
<td>Domain</td>
<td>Wireless Communication</td>
</tr>
<tr>
<td>Software</td>
<td>Embedded C, Keil, Proload</td>
</tr>
<tr>
<td>Microcontroller</td>
<td>AT89S52</td>
</tr>
<tr>
<td>Power Supply</td>
<td>+5V, 750mA Regulated Power Supply</td>
</tr>
<tr>
<td>Display</td>
<td>LED 5mm</td>
</tr>
<tr>
<td>Crystal</td>
<td>11.0592MHz</td>
</tr>
<tr>
<td>Communication Device</td>
<td>RF Modules</td>
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<tr>
<td>Applications</td>
<td>Colleges, Schools, offices, public utility places,</td>
</tr>
<tr>
<td>Developed By</td>
<td>M/S Wine Yard Technologies</td>
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<td>Phone</td>
<td>040-6464 6363</td>
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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. A separate person is required to take care of this notices display. This project deals about an advanced hi-tech wireless notice board.

The project is built around the AT89S52 micro controller from Atmel. This micro controller provides all the functionality of the display and wireless control. It also takes care of creating different display effects for given text.

Alphanumeric keypad is interfaced to the transmitter to type the data and transmit. The message can be transmitted to multi point receivers. After entering the text, the user can disconnect the keyboard. At any time the user can add or remove or alter the text according to his requirement.

This project uses regulated 5V, 1A power supply. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac out put of secondary of 230/12V step down transformer.
Block Diagram - Transmitter

- **Alphanumeric Key pad**
- **Crystal**
- **Reset**
- **16 X 2 LCD**
- **RF Transmitter**
- **Contrast Control**
- **Step down T/F**
- **Bridge Rectifier**
- **Filter Circuit**
- **Regulator**

Power supply to all sections
Block Diagram - Receiver

- RF Receiver
- Crystal
- Reset
- 16 X 2 LCD
- Contrast Control
- Step down T/F
- Bridge Rectifier
- Filter Circuit
- Regulator
- Power supply to all sections
**Advantages:**

- Wireless System
- Text can be entered from remote place
- Data will not be lost in power failure condition

**Applications:**

- Offices, educational institutions, bus stations, railway stations and other public utility places