

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

IEEE Reference:

Highly Reliable RF Communication System for point to multi point communication

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Title of the project	:	Wireless Electronic Notice Board
Domain	:	Wireless Communication
Software	:	Embedded C, Keil, Proload
Microcontroller	:	AT89S52
Power Supply	:	+5V, 750mA Regulated Power Supply
Display	:	LED 5mm
Crystal	:	11.0592MHz
Communication Device	:	RF Modules
Applications	:	Colleges, Schools, offices, public utility places,
Developed By	:	M/S Wine Yard Technologies
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www.WineYardProjects.com

ABSTRACT

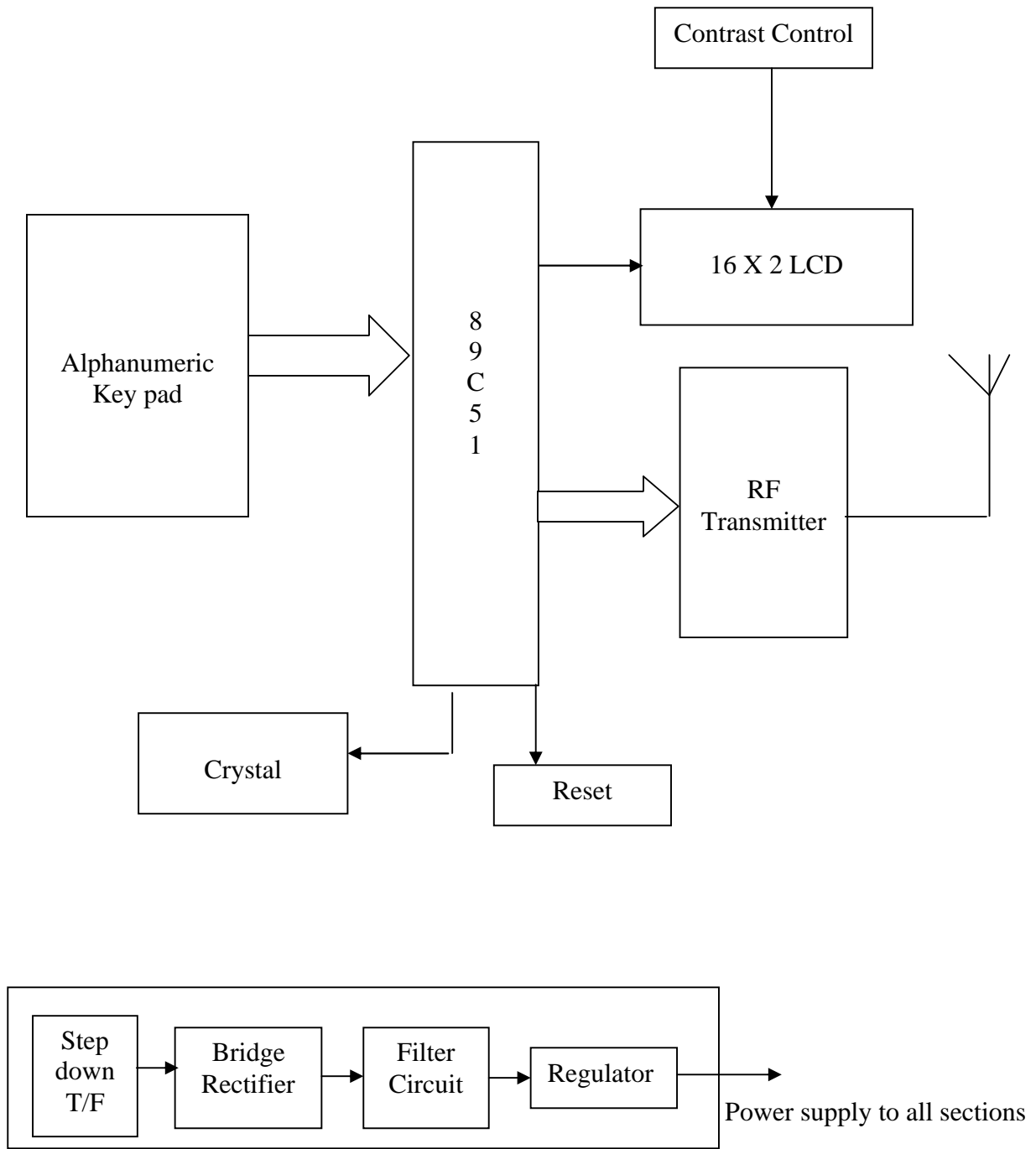
Notice Board is primary thing in any institution / organization or public utility places like bus stations, railway stations and parks. But sticking various notices day-to-day is a difficult process. A separate person is required to take care of this notices display. This project deals about an advanced hi-tech wireless notice board.

The project is built around the AT89C51 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.

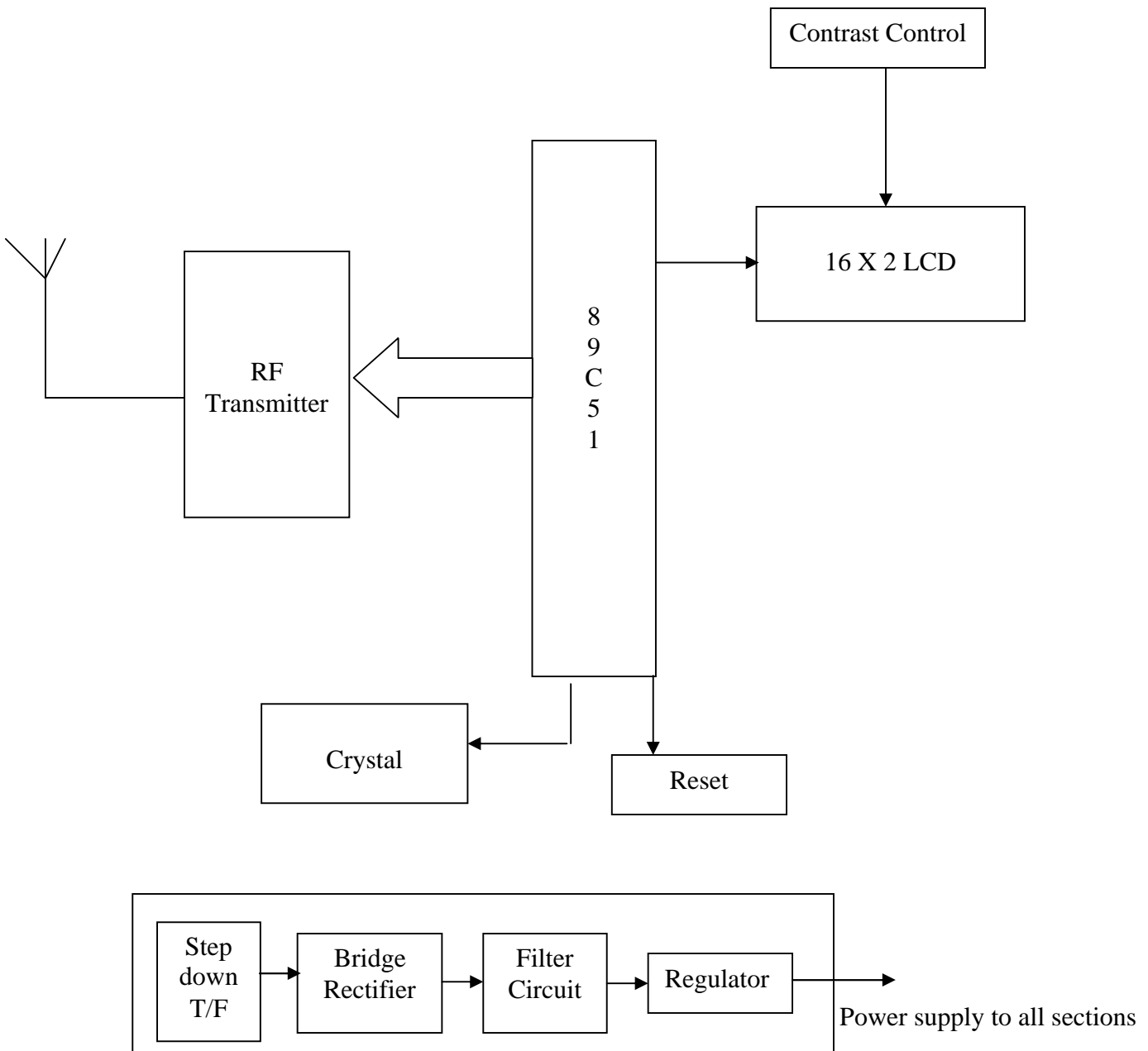
This project uses regulated 5V, 1A power supply. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac out put of secondary of 230/12V step down transformer.

Block Diagram - Transmitter





Block Diagram - Receiver



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