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# Wireless Notice Board Using RF Waves

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**ABSTRACT**

*This project deals with an innovative rather an interesting manner of intimating the message to the people using a wireless electronic display board which is synchronized using the RF waves based software technology. This will help us in passing any message almost immediately without any delay just by sending a message by using windows software. Which is better and more reliable than the old traditional way of pasting the message on notice board. This proposed technology can be used in many public places, malls or big buildings to enhance the security system and also make awareness of the emergency situations and avoid many dangers. Using various commands is used to display the message onto the display board. This technology is used to control the display board and for conveying the information through a message sent from authenticated user.*

***Keyword : RF module, VB.net software***

## I.INTRODUCTION

People are now adapted to the idea of the world at its finger tips .Now a days advertisement is going digital form. The malls, railway stations and the shopping centers used digital displays now. Also, in trains and buses the information like platform number, ticket information is displayed in digital boards. [2]

There is long process involve a order to put up the notices on the notice board in the institution. Urgent notices should be displayed immediately and it should be highlighted. In this digitalized era in the institutions the notices are still displayed in the board and required paper work sometimes the important notices are missed which known immediately. Where LED displays are widely used in public areas for various types of display. Because of large screen, long life and flexibility display the proposed system is very useful in this area. It can announce a notice just by typing on computer in the application window. [3]

The built application window is easy to use. The authentication feature is also added so that there will be no misuse, if needed. The authentication can be provided to different person and the limited authority can be added remove the ‘delete’ button for lower authority member. [3]

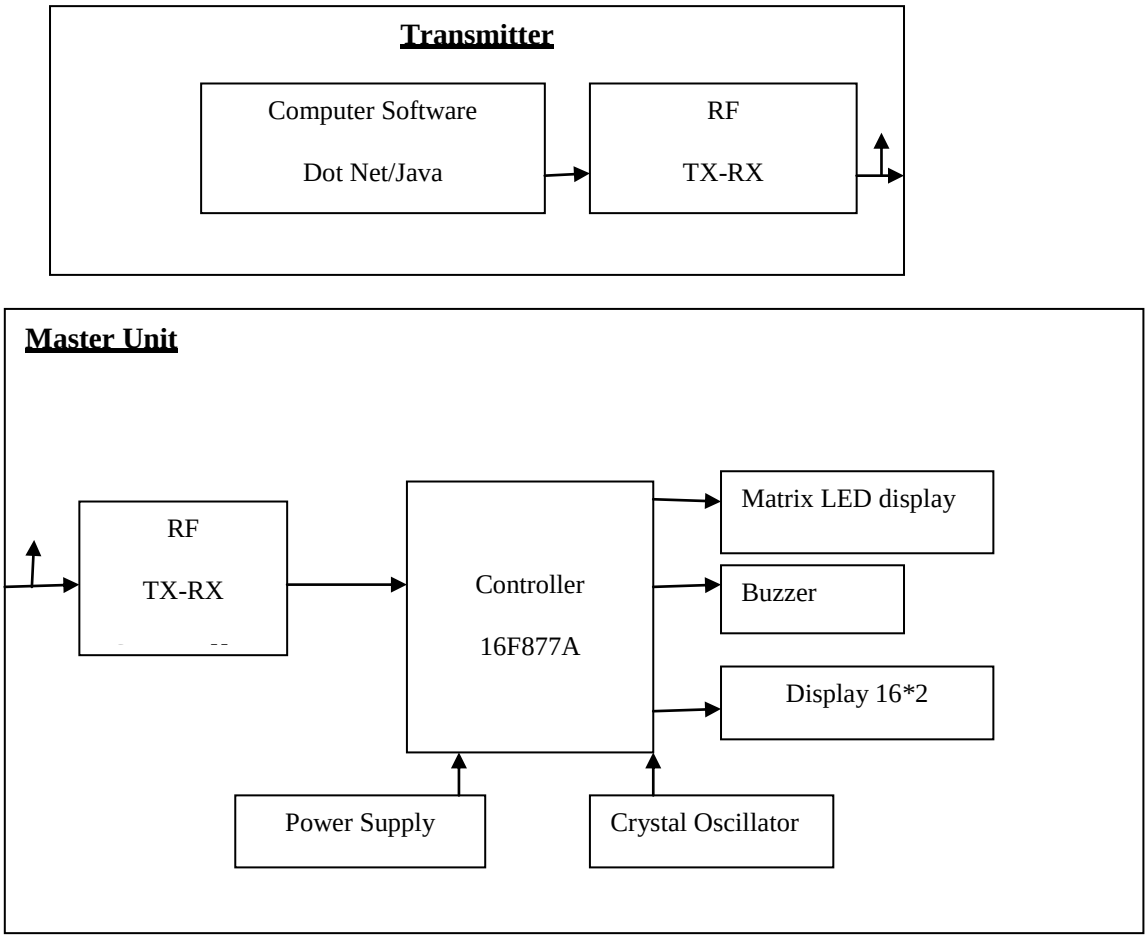
## II.LITERATURE REVIEW

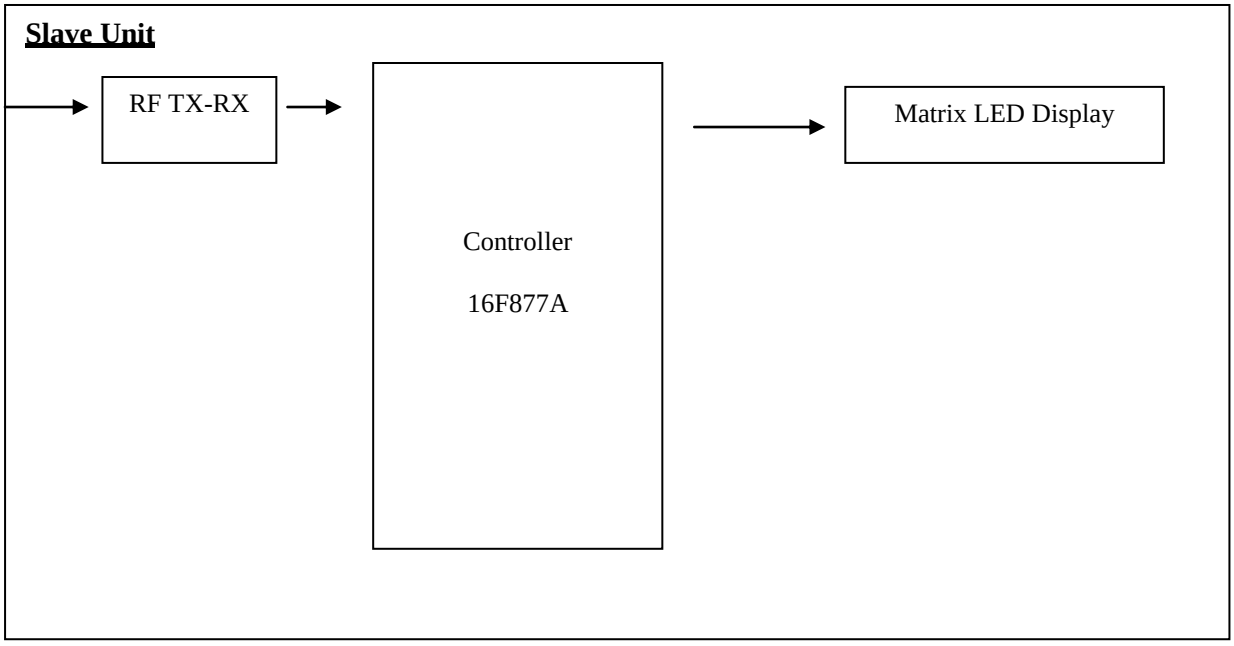
Notice board is primary thing in a any institution/ organization or public utility places. A new display using the RF module technology to access it by communication between PIC controller and PC. This system is compact, compatible and easy handling. [1]

1970's for increasing the lack of frequencies in the radio telephone services which in turn lead to introduction of AMPS (Advanced Mobile Phone System) where the transmission was analog based. This was known to be the first generation in cellular networks. The second generation was based on digital transmission and was called with various abbreviations as GSM (Global System for Mobile communications), ERMES (European Radio Messaging System).

Various Cordless telephone standards were also introduced during this time only. The third generation has risen with the unification of different technologies; some of them which are popularly known are FPLMTS (Future Public Land Mobile Telecommunications System), UMTS (Universal Mobile Telecommunication System), and IMT-2000(International Mobile Telecommunication). [4]

## III.BLOCK DIAGRAM






### 3.1PROPOSED WORK

In the work is done on notice display but PIC16F877A is being used for controlling the system and for display the notice only LED matrix is used A voltage regulator is designed to automatically maintain constant voltage level. It is used to stabilize the dc voltage by the processor and other elements. Microcontroller receives the message from Radio Frequency module on receiver side and display it on LED matrix screen. It provides synchronization between Transmitter and Receiver.

The power consumption of display is very low. An 8-bit PIC microcontroller is used to control the generating different character patterns. [3]

## IV. CONCLUSION

Using this notice board, paper work will be decreased and its time consuming technique. Message will be secured. This system is used in the Schools, colleges and various places such as industries, stations to display any kind of notices or messages. This system also can be used for advertisement. “RF based wireless notice board using microcontroller” we designed this notice board is working properly for college purpose.

## REFERANCE

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