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BLUETOOTH BASED WIRELESS NOTICE USING ANDROID APPLICTION

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ABSTRACT

There was printed notice board .Which was used to display any sort information but more changes information periodically. Then came electronic notice boards which used LED's, particular combination display and sort any information but need in redesign the board incase to change in phone information the project aims at developing such as board interface with the phone and we may change the information and to display .The use to Bluetooth modem act as keyword massage to send display in LED's blow act as notice information in main modem MCU

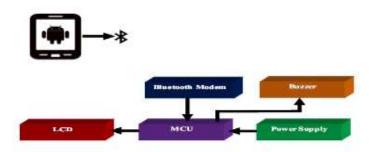
KEYWORDS: Bluetooth modem, LCD, Microcontroller AT89S51, buzzer, MAX RS232, MCU.

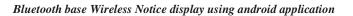
INTRODUCTION

We using notice board to display a massage in Offices, Schools, hospitals etc the massage is long time the send and then previous massage is become transfer thus changes in word in send this massage .so this project it can be wireless technology freedom as Bluetooth provided which is facility is change is massage in any time to notice board now distance is mobile phone operated in on OS Android base. As use as microcontroller and Bluetooth Rx as use as pin now act as on connected to LCD display in active as Bluetooth in modem and after as send the latter to LCD display and show the information as LCD now change in long time massage to again and again send to massage from in wireless Bluetooth technology as project as now freedom.

PROJECT DISCRIPTION

Bluetooth Based Wireless Notice Display using Android Application in major problem in notice board ,The every time as need of massage in LCD display that go for long time for massage that to be send and erase for previous massage and again type in once again that send the Massage to display read the massage. The Bluetooth provided to change from massage. act as Bluetooth receiver as modem as RS 232 pin and power supply connected to the MCU that connected to LCD display mobile phone in accept the Bluetooth modem and send the Massage to process as MCU then after Buzzer to LCD the execution by in microcontroller by massage is one by one send to LCD **Figure:**





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LCD (module no ADM 1602k-NSW-FBS/3.3V) Tables:

| Module size | 81.0mm(L)*37.0mm(w)*max14.5(H)mm | |
|--------------|----------------------------------|--|
| Viewing area | 65.6mm(L)*16.5mm(w) | |
| Char size | 3.5mm(L)*5.25mm(w) | |
| Char pitch | 3.50mm(L)*5.60mm(w) | |
| Weight | Approximate | |

Tablel Specification of lad

RS232 Drivers/Receivers

The Max232 that is dual receivers that a between a capacitive voltage generator to as supply TIA/EAI-232-F the voltage level are single 5 voltage supply Each receiver converts in address inputs to 5 voltage TTL/CMOS levels that receiver as typical threshold of 1.3 voltage. That typical hysteresis of 0.5voltage that can accept +-30 voltage input drivers convert a TTL/CMOS inputs levels as that levels are TIA/EIA-232 levels.

| Table 2:Divice Information | | |
|----------------------------|--------------|------------------|
| ORDER NUMBER | PACKAGE(PIN) | BODY SIZE |
| | SOIC(16) | 9.95mm x 3.95mm |
| Max232x | SOIC(16) | 10.35mm x 7.50mm |
| | PDIP(16) | 19.35mm x 6.35mm |
| | SOP(16) | 10.5mm x 5.35mm |

FEATUERS OF RS 232

- Meets and exceeds as a TAI/EIA-232 or ITU Recommendation voltage 0.28.
- Low supply (I):8mA Typical
- +-30 voltage inputs Levels

MICROCONTROLLER (AT89S51)

The AT89S51 a low power .Thus high performance as CMOS 8-bit microcontroller with 4k bytes of in that system programmable flash memory the manufactured using Atmel's high-density that as nonvolatile memory technology that is input as a try standard 80C51 instruction set and input. With the by combing a versatile 8-bit CPU with insystem programmable flash on the monolithic a chip. The Atmel AT89S51 is powerful microcontroller the provides high-flexibility and cost-effective that solution to many in program control applications.

Fetures of microcontroller

- The products as with MCS-products
- 4k Bytes in system that programmable (ISP) flash memory
- 4.0voltage to 5.5voltage operating range
- Thus three level program memory lock
- The 128 x 8-bit internal the ram
- The 32 programmable I/O that's lines
- The dual data pointer
- That power –off flag
- The fast programming time
- That is six **interrupts** sources



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ADVANTAGES

- The long time massage is send
- The after massage will be erase and again write massage is send in display
- Fast massage display
- Fast speed in Bluetooth device will Connected

DISADVATAGES

- Long distance so will not connect the Bluetooth device connected
- Thus only sort information Massage send

CONCLUSION

The conclusion in that thus data is speed is very fast in display Massage in microcontroller speed as well as very fast to execute in program that very sort information act as display as to Bluetooth controller a will be send.

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