

Wireless Serial Communication

Presented by

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Features of AT8c51

- ATMEL 89c51 microcontroller
- MCS51 compatible
- 8 bit CPU with 4K bytes of Flash
- 128 bytes of internal RAM
- 8 bit Programme status word
- 8 bit Stack Pointer
- 16 bit programme counter
- Full duplex serial Port
- On chip oscillator and clock circulatory
- It supports 6 types of hardware interrupts

Tools used

- Sdcc: It compiles the C programme into hex file.
- Topview simulator Evaluation version: this programme loads the hex file and after configuring the ports we can see the real world implementation.
- Ez downloader: It downloads the hex file in the microcontroller.

Model of a wireless communication

- Wireless Communication Image

Hardware requirement

- AT89C51/At89C52 microcontroller *2
- TSOP 1738 (IR Tx) *2
- 7 segment display *2
- IR Diode *2
- Push to tackle switch *24
- Square PCB *2
- 11.05 MHz crystal resenator *2
- 33pf capacator *4
- 4.7 microfarad clectrolytic capacitor *2
- 16v
- 10K ohm resistor

Special thanks To

Kumar Pudaseni

