

Lecture Notes on 8051 Microcontroller

1. Introduction to 8051 Microcontroller

Microcontroller is a single chip microcomputer which consists of CPU, Memory, I/O ports, timers and other peripherals. The difference between microprocessor and microcontroller is microprocessor is a single integrated CPU whereas microcontroller is single chip microcomputer. The world leaders of manufacturing of microprocessor and microcontroller are Intel, Motorola, IBM, Cyrix etc. Here we have to focus on microcontroller 8051.

In 1981 Intel Corporation introduced an 8 bit microcontroller called 8051.this microcontroller had 128 bytes of RAM, 4K bytes of on-chip ROM, two timers, one serial port and four ports (each 8bit wide) all on a single chip. It is an 8 bit processor means it can process 8 bit of data at a time. It has total of four I/O ports, each 8 bit wide.

Features of 8051

| Feature | Quantity |
|-------------------|----------|
| ROM | 4K bytes |
| RAM | 128bytes |
| Timer | 2 |
| I/O pins | 32 |
| Serial Port | 1 |
| Interrupt sources | 6 |

2. Architecture of 8051

Fig 4.1 shows a simplified architecture for the internal Hardware. Fig 4.2 shows an overview of the internal hardware architecture of the 8051/8031 microcontrollers.

The CPU has the controlled and sequencing logic circuits with signals as in a microprocessor.



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programming styles The practical component of the book is tailored around the architecture of a widely used Texas Instrument s microcontroller the MSP430 and a companion web site offers for download an experimenter s kit and lab manual along with Powerpoint slides and solutions for instructors

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