

# 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.



# Introduction To Microcontroller Lecture Notes

**Michal Rosen-Zvi**



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## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Introduction To Microcontroller Lecture Notes**

In a global inundated with screens and the cacophony of instant communication, the profound energy and psychological resonance of verbal artistry usually disappear in to obscurity, eclipsed by the regular assault of sound and distractions. However, nestled within the musical pages of **Introduction To Microcontroller Lecture Notes**, a charming perform of literary splendor that impulses with natural emotions, lies an remarkable trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that exciting opus books viewers on an emotional odyssey, lightly revealing the latent possible and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is main styles, dissect its interesting writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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