

# 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

<u>Feature</u>	<u>Quantity</u>
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

**Fu Lee Wang, Joseph Fong, Liming  
Zhang, Victor K. S. Lee**



## **Introduction To Microcontroller Lecture Notes:**

*MICROCONTROLLERS* PAL, AJIT, 2011-08 This book gives a comprehensive coverage of different aspects of microcontroller based system design and development in a generalized manner Basic ideas and fundamental concepts common to all micro controllers have been introduced before giving specific examples using the 8051 microcontroller which is the most popular microcontroller in use today Coverage of the three important issues such as hardware software and hardware software integration has been provided in a balanced manner For easy understanding of the subject a bottom up approach has been followed The book is designed for the undergraduate students of electrical engineering computer science and engineering and electronics and communication engineering KEY FEATURES Provides many pedagogical features such as learning objectives introduction examples summary fill in the blanks and chapter end exercises to assist teaching and learning Pays special attention to the interfacing of I O devices for human interaction and I O devices for process control and instrumentation which are important in the context of embedded systems Gives comprehensive information about development aids and trouble shooting techniques for the development of microcontroller based systems Includes a number of real life application examples with complete details of hardware and software implementation after fabricating prototype models in the laboratory     Hybrid Learning and Education Fu Lee Wang, Joseph Fong, Liming Zhang, Victor K. S.

Lee, 2010-03-24 The Second International Conference on Hybrid Learning was organized by the School of Continuing and Professional Studies of The Chinese University of Hong Kong and University of Macau in August 2009 ICHL 2009 was an inventive experience for the Hong Kong and Macau tertiary higher education The conference aims to provide a good platform for knowledge exchange on hybrid learning by focusing on student centered education The technique is to supplement traditional classroom learning with eLearning The slogan is Education leads eLearning not vice versa The methodology is that at least 30% of learning activities are done by eLearning The outcome is for students to learn at any time at any place eLearning can increase students learning productivity and reduce teachers administration workload alike It is a new culture for students teachers and school administrators to adopt in the twenty first century The conference obtained sponsorship from Pei Hua Education Foundation Limited City University of Hong Kong ACM Hong Kong Section and Hong Kong Computer Society Hybrid learning originated from North America in 2000 and is an ongoing trend It is not merely a simple combination of direct teaching and eLearning It encompasses different learning strategies and important elements for teaching and learning It emphasizes outcome based teaching and learning and provides an environment for knowledge learning Students are given more opportunities to be active learners and practice practical skills such as communication collaboration critical thinking creativity self management self study problem solving analysis and numeracy     *Secure Smart Embedded Devices, Platforms and Applications* Konstantinos Markantonakis, Keith Mayes, 2013-09-14 New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services As a result they

may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life *Secure Smart Embedded Devices Platforms and Applications* provides a broad overview of the many security and practical issues of embedded devices tokens and their operation systems platforms and main applications It also addresses a diverse range of industry government initiatives and considerations while focusing strongly on technical and practical security issues The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented A sufficient level of technical detail to support embedded systems is provided throughout the text although the book is quite readable for those seeking awareness through an initial overview of the topics This edited volume benefits from the contributions of industry and academic experts and helps provide a cross discipline overview of the security and practical issues for embedded systems tokens and platforms It is an ideal complement to the earlier work *Smart Cards Tokens Security and Applications* from the same editors

**Intelligent Computing Techniques for Smart Energy Systems** Anshuman Tripathi,Amit Soni,Manish Tiwari,Anil Swarnkar,Jagrati Sahariya,2024-12-28 This book compiles the best selected research papers presented during the 3rd International Conference on Intelligent Computing Techniques for Smart Energy Systems ICTSES 2023 held at Manipal University Jaipur Rajasthan India It presents the diligent work of the research community where intelligent computing techniques are applied in allied fields of engineering ranging from engineering materials to electrical engineering to electronics and communication engineering to computer related fields The theoretical research concepts are supported with extensive reviews highlighting the trends in the possible and real life applications of computational intelligence The high quality content with broad range of the topics is thoroughly peer reviewed and published on suitable recommendations

Micro-Electronics and Telecommunication Engineering Devendra Kumar Sharma,Sheng-Lung Peng,Rohit Sharma,Dmitry A. Zaitsev,2022-02-28 The book presents high quality papers from the Fourth International Conference on Microelectronics and Telecommunication Engineering ICMETE 2021 It discusses the latest technological trends and advances in major research areas such as microelectronics wireless communications optical communication signal processing image processing big data cloud computing artificial intelligence and sensor network applications This book includes the contributions of national and international scientists researchers and engineers from both academia and the industry The contents of this volume will be useful to researchers professionals and students alike

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