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CHAPTER 1: THE 8051 MICROCONTROLLERS 23. Section 1.1: Microcontrollers and embedded processors 24. Section 1.2: Overview of the 8051 family 28. CHAPTER 2: 8051 ASSEMBLY LANGUAGE PROGRAMMING 37. Section 2.1: Inside the 8051 38. Section 2.2: Introduction to 8051 Assembly programming 41. Section 2.3: Assembling and running an 8051 program 44

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The 8051 microcontroller has a total of 128 bytes of RAM. We will discuss about the allocation of these 128 bytes of RAM and examine their usage as stack and register. RAM Memory Space Allocation in 8051 The 128 bytes of RAM inside the 8051 are assigned the address 00 to 7FH.

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Although the 8051 has a simple microcontroller architecture, it has a complete set of peripherals sufficient for most applications. This makes it perfect for electronics hobbyists'

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projects. For those in search of mathematical prowess, an 8051 microcontroller has an 8-bit width Arithmetic Logical Unit (ALU) that performs arithmetic operations.

### **Interface an LED With an 8051 Microcontroller: Processes**

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Mazidi's 8051 Microcontroller text emphasises the programming and interfacing of the 8051. A systematic, step-by-step approach is used to cover various aspects of 8051. C and Assembly language programming and interfacing. Many examples and sample programs are given to clarify the concepts and provide students with an opportunity to learn by doing.

### **8051 Microcontroller and Embedded Systems, The ...**

8051 Flavors / Members 8052 microcontroller – 8052 has all the standard features of the 8051 microcontroller as well as an extra 128 bytes of RAM and an extra timer. It also has 8K bytes of on-

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chip program ROM instead of 4K bytes. 8031 microcontroller – It is another member of the 8051 family.

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Basics programming of 8051 microcontrollers in Keil Assembly Language. So Friend keeps concentrate your mind and starts the learning, I am going to elaborate it step by step. 8051 Microcontroller and Basics of 8051 Microcontroller

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MICROCONTROLLERS AND EMBEDDED PROCESSORS  
Microcontroller vs. General Purpose Microprocessor General-



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purpose microprocessors contains  $\frac{3}{4}$   $\frac{3}{4}$   $\frac{3}{4}$  Microcontroller has  $\frac{3}{4}$   $\frac{3}{4}$   $\frac{3}{4}$   $\frac{3}{4}$   $\frac{3}{4}$

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8051 Microcontroller Architecture. A Register is the main part in the processors and microcontrollers which is contained in the memory that provides a faster way of collecting and storing the data. The 8051 assembly language programming is based on the memory registers. If we want to manipulate data to a processor or controller by performing subtraction, addition, etc., we cannot do that ...

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