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## **Tutorial and Guide**

A microcontroller (MCU for microcontroller unit) is a small computer on a single metal-oxide-semiconductor (MOS) integrated circuit chip. In modern terminology, it is similar to, but less sophisticated than, a system on a chip (SoC); an SoC may include a microcontroller as one of its components. A microcontroller contains one or more

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CPUs (processor cores)  
along with memory  
and programmable ...

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schedule.

## **8051 Microcontroller : Architecture, Block Diagram and ...**

A micro controller is an  
integrated circuit or a

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chip with a processor and other support devices like program memory, data memory, I/O ports, serial communication interface etc integrated together. Unlike a microprocessor (ex: Intel 8085), a microcontroller does not require any external interfacing of support devices. Intel 8051 is the most popular microcontroller ever produced in the



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world market.

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**Development Tools**

Embedded Systems 6

System A system is an arrangement in which all its unit assemble work together according to a set of rules. It can also be defined as a way of working, organizing or doing one or many tasks

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We have already seen the Pin Diagram of 8051 Microcontroller for its standard 40 - pin DIP (Dual In - line Package) configuration. In this tutorial, in the process of dealing with the 8051 Microcontroller Architecture, we will see the hardware aspects of the 8051 microcontroller like I/O PORTS, RAM, ROM,

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## **The 8051 Microcontroller and Embedded**

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8051 Microcontroller.  
The 8051  
Microcontroller was  
designed in 1980's by  
Intel. Its foundation  
was on Harvard

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Architecture and was developed principally for bringing into play in Embedded Systems. At first it was created by means of NMOS technology but as NMOS technology needs more power to function therefore Intel re-intended Microcontroller 8051 employing CMOS technology and a new edition ...

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The 8051

Microcontroller is one of the basic type of microcontroller, designed by Intel in 1980's. This microcontroller was based on Harvard Architecture and developed primarily for use in embedded systems technology. Normally, this microcontroller was developed using NMOS

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technology, which requires more power to operate.

## **Keypad Interfacing with 8051 Microcontroller (AT89S52)**

Getting knew about embedded systems is toilsome for an engineering graduate and a fresher who has just passed out. To learn the basic concepts and get an overview of embedded

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microprocessor 4004 was invented by Intel Corporation. 8085 and 8086 microprocessors were also invented by Intel. In 1981, Intel introduced an 8-bit m

## **8051 Microcontroller Architecture: Internal Architecture**

...

The Intel MCS-51 (commonly termed 8051) is a single chip microcontroller (MCU) series developed by

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Intel in 1980 for use in embedded systems. The architect of the instruction set of the Intel MCS-51 was John H. Wharton. Intel's original versions were popular in the 1980s and early 1990s and enhanced binary compatible derivatives remain popular today. It is an example of a complex instruction ...

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The Intel 8051 microcontroller is one of the most popular general purpose microcontrollers in use today. The success of the Intel 8051 spawned a number of clones, which are collectively referred to as the MCS-51 family of microcontrollers, which includes chips from vendors such as Atmel, Philips, Infineon, and

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Microcontroller series is an age old legendary 40pin 8-bit Microcontroller from ATMEL. This has been the beginner level microcontroller for engineers to explore the field of embedded system.

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...

Keypads are widely

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used input devices being used in various electronics and embedded projects. They are used to take inputs in the form of numbers and alphabets, and feed the same into system for further processing. In this tutorial we are going to interface a 4x4 matrix keypad with 8051 microcontroller.

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## **Embedded Systems - 8051 Microcontroller - Tutorialspoint**

This article is about the  
8051 Microcontroller  
Introduction and some  
of its basic features.

The 8051

Microcontroller is one  
of the most popular  
and most commonly  
used microcontrollers  
in various fields like



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embedded systems,  
consumer electronics,  
automobiles, etc.

## **Addressing modes of 8051 Microcontroller SEGGER**

Microcontroller is a full-range supplier of software, hardware and development tools for embedded systems (RTOS, IDE, debug probe, stacks).

**Intel MCS-51 -  
Wikipedia**

*Page 25/27*

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Embedded projects ideas. So, Now-a-days many engineering students are showing lot of interest to improve their practical knowledge in embedded systems in early stage by doing the embedded systems projects in their final year. Generally we use 8051 Microcontroller or PIC Microcontroller based projects as they serve as good reference for final year

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