

## 8051 Microcontroller And Embedded Systems The

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The 8051-Microcontroller-and-Embedded

In 1981, Intel introduced an 8-bit microcontroller called the 8051. It was referred as system on a chip because it had 128 bytes of RAM, 4K byte of on-chip ROM, two timers, one serial port, and 4 ports (8-bit wide), all on a single chip. When it became widely popular, Intel allowed other manufacturers to make and market different flavors of 8051 with its code compatible with 8051.

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The 8051 Microcontroller is an electronics engineering subject that deals with embedded products. The demand for 8051 microcontroller is increasing day by day.

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Embedded Systems 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 Texas Instruments.

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This textbook covers the hardware and software features of the 8051 in a systematic manner.Using Assembly language programming in the first six chapters, in Provides readers with an in-depth understanding of the 8051 architecture.From Chapter 7, this book uses both Assembly and C to Show the 8051 interfacing with real-world devices such as LCDs, keyboards, ADCs, sensors, real-time-clocks, and the DC and Stepper motors, The use of a large number of examples helps the reader to gain mastery of ...

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