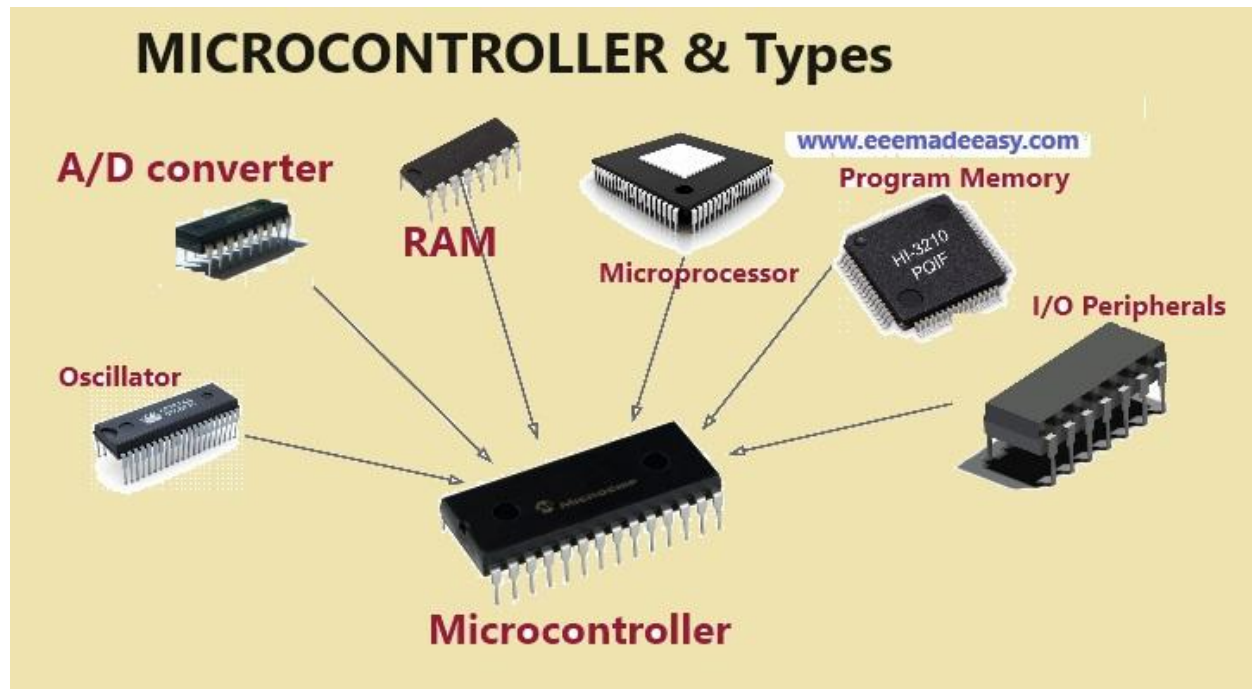# 8051 Microcontroller

Microcontroller: A microcontroller is a computer with most of the necessary support chips. A microcontroller (MCU for microcontroller unit, also MC, UC, or µC) is a small computer on a single VLSI integrated circuit (IC) chip. A microcontroller contains one or more CPUs (processor cores) along with memory and programmable input/output peripherals onboard.

8051 Microcontroller Notes

1. [Features of AVR|AVR Microcontrollers](#)
2. [8051 ARCHITECTURE|8051 Microcontroller Architecture](#)
3. [8051 Microcontroller Architecture|RISC and CISC CPU Architectures|HARVARD & VON-NEUMANN CPU Architecture](#)
4. [Microprocessor VS Microcontroller| Comparison of Microprocessor and Microcontroller|Difference between Microprocessor and Microcontroller](#)
5. [Addressing modes of 8051 Microcontroller|8051 Addressing Modes](#)
6. [8051 Microcontroller Instruction Set|KSEB Sub Engineer Notes](#)
7. [8051 Microcontroller MCQ|8051 Questions and Answers](#)
8. [Microcontroller|Types of microcontroller](#)
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Books for Microcontroller 8051

1. [The 8051 Micro controller 3rd Edition,by Kenneth Ayala](#)
2. [The 8051 Microcontrollers & Embedded Systems, by Mazidi](#)
3. [8051 MICROCONTROLLER AND APPLICATIONS FOR BSC](#)
4. [Microcontroller & Embedded Systems for BE](#)

8051 Microcontroller Quiz

1) 8051 series has how many 16 bit registers?
a) 2
b) 3
c) 1
d) 0

Ans a

2) What is the bit size of the 8051 microcontroller?
a) 8-bit
b) 4-bit
c) 16-bit
d) 32-bit

Ans a

3) Number of I/O ports in the 8051 microcontroller?
a) 3 ports
b) 4 ports
c) 5 ports
d) 4 ports with last port having 5 pins
Ans b

4) SCON in serial port is used for which operation?
a) Transferring data
b) Receiving data
c) Controlling
d) Controlling and transferring
Ans c

5) Program counter stores what?
a) Address of before instruction

b) Address of the next instruction

c) Data of the before execution to be executed

d) Data of the execution instruction

Ans b

6) External Access is used to permit _____

a) Peripherals

b) Power supply

c) ALE

d) Memory interfacing

Ans d

7) What is the address range of SFRs?

a) 80h to feh

b) 00h to ffh

c) 80h to ffh

d) 70h to 80h

Ans c

8) How many interrupts are there in micro controller?

a) 3

b) 6

c) 4

d) 5

Ans d

9) Timer 0 is a _____ bit register.

a) 32-bit

b) 8-bit

c) 16-bit

d) 10-bit

Ans c

10) Number of pins in 8051 microcontroller with _____ package.

a) 40 pin with LLC

b) 60 Pin with QFP

c) 40 pin with DIP

d) 60 pin with QFP

Ans c

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