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Module 5| 8051 A P

Internal Architecture  
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Microcontroller.

Microprocessor. It is a  
mini-computer

capable of performing

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a task on its own.

Examples: 8051, 8951 etc. It is the central processing unit of the computer.

Examples: 8085, 8086 etc. It has necessary peripherals inside the chip like RAM, ROM, etc that is why it is called SoC (system on chip).

Difference Between

*Page 10/37*

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Microprocessor and  
Microcontroller

The development of MOSFET has originated the path for the invention of microprocessors. To overcome certain drawbacks in the microprocessor, microcontrollers were designed. In the year 1959, the company named Fair Child

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Semiconductors  
invented the very first  
integrated circuit.

Microprocessor and  
Microcontroller : Their  
Differences

A Microcontroller is a  
small and low-cost  
microcomputer, which  
is designed to perform  
the specific tasks of  
embedded systems  
like displaying

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microwave processor

information, receiving  
remote signals etc.

The general microcontroller

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consists of the

processor, the

memory (RAM, ROM,

EPROM), Serial ports,

peripherals (timers,

counters) etc.

Differences in

Microcomputer,

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### Microprocessor and...

The microprocessor is the heart of the system and the microcontroller is the brain of the system.

Both ICs have different applications and have their own advantages and disadvantages. Both ICs can be differentiated in terms of Application,

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structure, internal parameters, power consumption, and cost. Let's explain all difference in details.

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Difference between  
Microprocessor and  
Microcontroller ...

A microprocessor is a central processing unit used to perform tasks such as arithmetic and logic

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operations, system  
controlling and storing  
of data. A  
microcontroller is a  
computer on a chip in  
which many support  
devices like RAM,  
ROM, timers,  
counters, I/O  
peripherals are fixed  
in IC.

13 Major Difference  
Between

*Page 16/37*



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Microprocessor And

...

The fundamental part  
of a computer is

formed by the

microprocessor

whereas

Microcontroller forms  
a key component of  
an embedded system.

A microprocessor is  
capable of performing  
operations for various  
different tasks

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compared to a microprocessor which is dedicated to performing the same task for its entire life.

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Microprocessor vs  
Microcontroller | 15  
Valuable ...

The major difference between microprocessor and microcontroller is that a microprocessor is

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an IC designed to perform general-purpose digital computations. As against a microcontroller is an IC integrated with various devices to perform a specific application.

Difference Between  
Microprocessor and  
Microcontroller ...

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The term microprocessor and microcontroller have always been confused with each other. Both of them have been designed for real time applications. They share many common features and at the same time they have significant differences. Both the ICs i.e., the microprocessor

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and microcontroller cannot be distinguished by looking at them.

Difference between Microprocessor and Microcontroller

<br>Microcontroller Basics, Types and Applications.

Electronics Hub, 24 Dec. 2017, Available here.2. All these

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support devices are interfaced to the microprocessor via a system bus. Okay, now let's take a look at the microcontroller.

Overall, microcontrollers are used for embedded systems such as microwave ovens and washing machines.

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Parallel ... processor

And

similarities between  
microprocessor and  
microcontroller  
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SHAKTI is the first  
open-source initiative  
by the Reconfigurable  
Intelligent Systems  
Engineering (RISE)  
group at Indian  
Institute of  
Technology, Madras  
to develop the first

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indigenous industrial-grade processor. The aim of SHAKTI initiative includes building an opensource production-grade processor, complete System on Chips (SoCs), development boards and SHAKTI based software platform.



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SHAKTI - processor

Microprocessor &

Microcontroller -

Wikipedia

As all the peripheral

of microcontroller are

on single chip it is

compact while

microprocessor is

bulky. 3.

Microcontrollers are

made by using

complementary metal

oxide semiconductor

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technology so they  
are far cheaper than  
microprocessors.

Microcontroller

What is the difference  
between  
microprocessor and ...

Microprocessor  
definition:

microprocessor are  
essential for many of  
the products we use  
every day such as  
TVs cars, radio, home

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appliance, and computers.

microprocessor based controls also called microcontrollers.

microcontroller is a digital integrated circuits which serves as a heart of many modern control applications.

Microprocessor  
Control System|Micro

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processor And...

Microprocessors and

Microsystems:

Embedded Hardware

Design (MICPRO) is a

journal covering all

design and

architectural aspects

related to embedded

systems

hardware. This

includes different

embedded system

hardware platforms

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ranging from custom hardware via reconfigurable systems and application specific processors to general purpose embedded processors.

Microprocessors and  
Microsystems -  
Journal - Elsevier  
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Microprocessor For  
example, an ARM  
Cortex-M4-based  
microcontroller such  
as Atmel's SAM4  
MCU is rated at 150  
DMIPS. Whereas an  
ARM Cortex-A5  
application processor  
(MPU) such as  
Atmel's SAMA5D3  
can deliver up to 850  
DMIPS.

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Difference between

Microprocessor and

Microcontroller

A Microprocessor,

popularly known as

□computer on a chip□

in its early days, is a

general purpose

central processing

unit (CPU) fabricated

on a single integrated

circuit (IC) and is a

complete digital

computer (later

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microprocessor is considered to be more accurate form of complete computer).

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Difference Between  
Microprocessor and  
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The origins of both the microprocessor and the microcontroller can be traced back to the invention of the



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MOSFET (metal-oxide-semiconductor field-effect transistor), also known as the MOS transistor. It was invented by Mohamed M. Atalla and Dawon Kahng at Bell Labs in 1959, and first demonstrated in 1960.

Microcontroller -  
Wikipedia

*Page 33/37*

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Microprocessor often uses an operating system to work which itself consumes most of its resources. A typical example is our desktop computers. Microcontrollers are used in embedded systems and only does the job for which it is programmed. The input and output are defined and ideally

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suited for that specified job only.

Difference Between  
Microprocessor Vs  
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...

Block diagram of microcontroller is shown below. When a fixed or embedded system includes an MCU. Abd-Elsalam Boda\_eng@hotmail.co

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m, ADVANCE  
MICROPROCESSOR  
And  
AND MICROCONTR  
Microcontroller  
OLLER. More quantity  
System By AP  
of registers is used.-  
Goase  
This connection or  
communication of  
multiple  
microcontrollers in a  
network is to a get a  
desired output.

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