

Microprocessor 8086 By B Ram

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MICROCONTROLLER AND EMBEDDED SYSTEMS ...

The first microprocessor was introduced in the year 1971. It was introduced by Intel and was named Intel 4004. Intel 4004 is a 4 bit microprocessor and it was not a powerful microprocessor. It can perform addition and subtraction operation on 4 bits at a time. However it was Intel's 8080 was the first microprocessor to make it to Home computers.

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Microprocessors 7 Instruction Set: It is the set of instructions that the microprocessor can understand.

Bandwidth: It is the number of bits processed in a single instruction. Clock Speed: It determines the number of operations per second the processor can perform. It is expressed in megahertz (MHz) or gigahertz (GHz). It

is also known as ...

UNIT III 8086 MICROPROCESSOR INTERFACING 3.1 ...

The DT/R (Active Low) from the 8086 sets the direction in which data will pass through the buffers. When DT/R (Active Low) is asserted high, the buffers will be set up to transmit data from the 8086 to ROM, RAM or ports. When DT/R (Active low) becomes low, the buffers will be setup to allow data to come into the 8086 from ROM, RAM or ports.

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A microprocessor requires an external memory for program/data storage. Instruction execution requires movement of data from the external memory to the microprocessor or vice versa. Usually, microprocessors have good computing power and they have higher clock speed to facilitate faster computation. 2.