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features a step-

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8-bit microcontr

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eliminating any  
need for  
external  
components.

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microcontrollers  
find many  
applications as

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systems. They are especially common in hobbyist and educational embedded applications, popularized by their inclusion in many of the Arduino line of open hardware development

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**AVR**

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- Wikipedia**

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of  
microcontroller  
that is  
developed by  
different  
manufacturers  
such as  
Motorola, ST Mic

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roelectronics,  
etc. It is the  
most popular  
microcontroller  
in an embedded  
system, and most  
industries  
prefer the ARM  
Training since  
it consists of  
large features  
to implement  
products with an  
excellent

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appearance. This  
type of  
microcontrollers  
is cost  
sensitive and  
high-performance  
devices.

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Distinguish  
Between AVR and  
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A

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may be considered a self-contained system with a processor, memory, and other peripheral devices and may be used as an embedded system. Microcontroller and embedded systems are used

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and robotics ...

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Atmega32 AVR  
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It consists of  
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bit Memory size.  
It has flash  
memory type, 16  
MIPS Speed, 2048  
SRAM, Operating  
Volt ranges from  
2.7 to 5.5.

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Uses: It is used  
in a system...

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23. (a)  $9\text{FFFFh} - 10000\text{h} = 8\text{FFFFh}$   
 $= 589\ 824$  bytes

(b) 576 kbytes

24.  $2^{32} - 1 = 4$

294 967 295 25.

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(a) FFh, 255 (b)  
FFFFh, 65535 (c)  
FFFF FFFFh, 4  
294 967 295 (d)  
FFFF FFFF FFFF  
FFFFh, 18 446  
744 ...

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Chapter 8,  
Section 18-5,  
and the  
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Motors, Opto-  
isolators and  
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embedded  
controllers, and  
specifically,  
the Arduino  
development  
system and  
associated Atmel  
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rollers. It is  
intended to fit

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