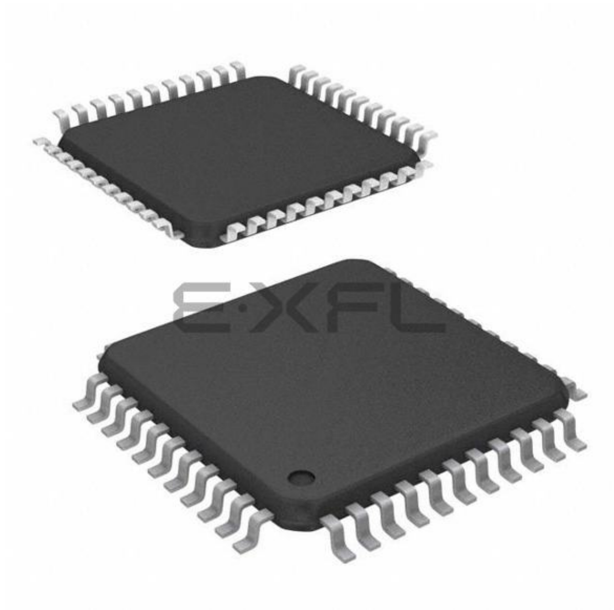

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What is "Embedded - Microcontrollers"?

"Embedded - Microcontrollers" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "Embedded - Microcontrollers"

Details	
Product Status	Obsolete
Core Processor	80C51
Core Size	8-Bit
Speed	40MHz
Connectivity	UART/USART
Peripherals	POR, PWM, WDT
Number of I/O	34
Program Memory Size	32KB (32K x 8)
Program Memory Type	FLASH
EEPROM Size	2K x 8
RAM Size	1.25K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 5.5V
Data Converters	A/D 8x10b
Oscillator Type	External
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	44-LQFP
Supplier Device Package	44-VQFP (10x10)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/t89c51ac2-rltim