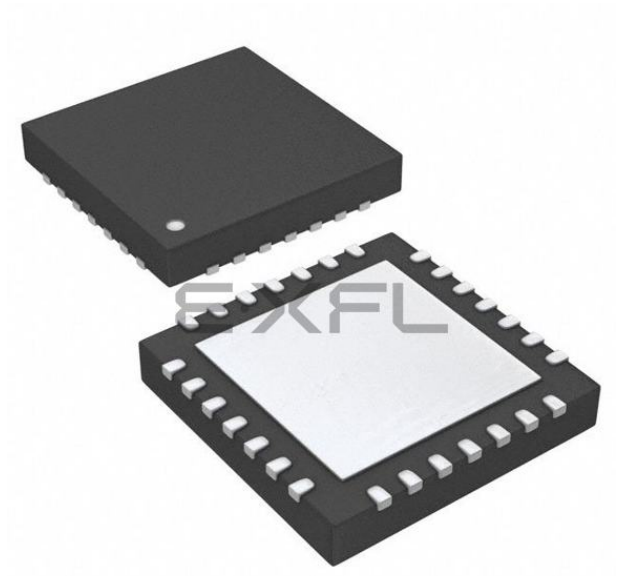

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What is "Embedded - Microcontrollers"?

"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	Active
Core Processor	PIC
Core Size	8-Bit
Speed	48MHz
Connectivity	I²C, LINbus, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT
Number of I/O	22
Program Memory Size	64KB (32K x 16)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	3.8K x 8
Voltage - Supply (Vcc/Vdd)	2.15V ~ 3.6V
Data Converters	A/D 10x10b/12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	28-VQFN Exposed Pad
Supplier Device Package	28-QFN (6x6)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic18f26j13t-i-ml

TABLE 1: PIC18F47J13 FAMILY TYPES

PIC18F Device	Pins	Program Memory (bytes)	SRAM (bytes)	Remappable Pins	Timers 8/16-Bit	ECCP/CCP	EUSART	MSSP			12-Bit A/D (ch)	Comparators	Deep Sleep	PMP/PSP	CTMU	RTCC
								SPI w/DMA		I^2C						
PIC18F26J13	28	64K	3760	19	4/4	3/7	2	2	Y	Y	10	3	Y	N	Y	Y
PIC18F27J13	28	128K	3760	19	4/4	3/7	2	2	Y	Y	10	3	Y	N	Y	Y
PIC18F46J13	44	64K	3760	25	4/4	3/7	2	2	Y	Y	13	3	Y	Y	Y	Y
PIC18F47J13	44	128K	3760	25	4/4	3/7	2	2	Y	Y	13	3	Y	Y	Y	Y
PIC18LF26J13	28	64K	3760	19	4/4	3/7	2	2	Y	Y	10	3	N	N	Y	Y
PIC18LF27J13	28	128K	3760	19	4/4	3/7	2	2	Y	Y	10	3	N	N	Y	Y
PIC18LF46J13	44	64K	3760	25	4/4	3/7	2	2	Y	Y	13	3	N	Y	Y	Y
PIC18LF47J13	44	128K	3760	25	4/4	3/7	2	2	Y	Y	13	3	N	Y	Y	Y