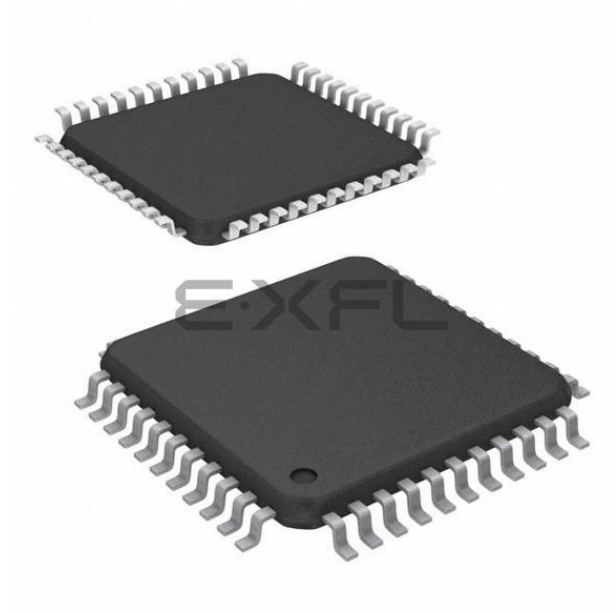


Welcome to E-XFL.COM

What is "Embedded - Microcontrollers"?

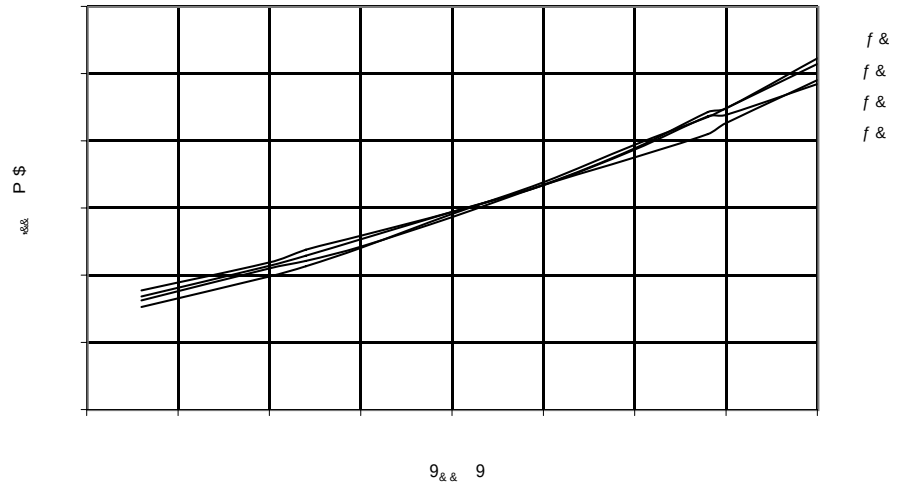
"Embedded - Microcontrollers" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" 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.

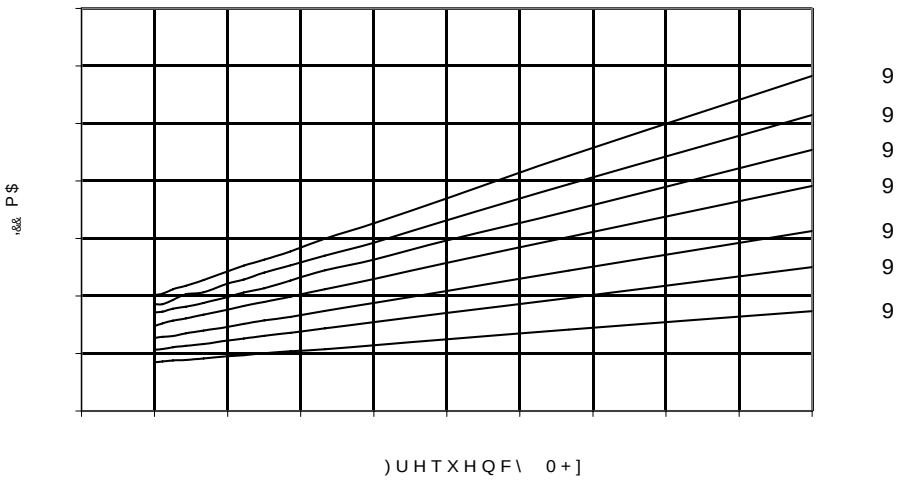
Applications of "Embedded - Microcontrollers"

Details	
Product Status	Obsolete
Core Processor	AVR
Core Size	8-Bit
Speed	20MHz
Connectivity	I²C, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT
Number of I/O	32
Program Memory Size	64KB (32K x 16)
Program Memory Type	FLASH
EEPROM Size	2K x 8
RAM Size	4K x 8
Voltage - Supply (Vcc/Vdd)	1.8V ~ 5.5V
Data Converters	A/D 8x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	44-TQFP
Supplier Device Package	44-TQFP (10x10)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/atmega644pv-20au

6\PERO	3DUDPH\	&RQGLW	0LQ	7\S	0D[	8QLWV
	*DLQ (UURU	RDLQ 9&& 95() $'& FORFN N+]	î 9 9			/6%
		*DLQ 9&& 95() $'& FORFN N+]	î 9 9			
		*DLQ 9&& 95() $'& FORFN N+]	î 9 9			
		*DLQ 9&& 95() $'& FORFN N+]	î 9 9			/6%
		*DLQ 9&& 95() $'& FORFN N+]	î 9 9			
		*DLQ 9&& 95() $'& FORFN N+]	î 9 9			
	&RQYHUVLRQ 7LPH					V
	&ORFN)UHTXHQF\					N+]

)LJXUH Î$FWLYH 6XSSO\ &XUUHQW YV &ORFN)UHTXHQF\ N+]



,GOH 6XSSO\ &XUUHQW

)LJXUH Î,GOH 6XSSO\ &XUUHQW YV /RZ)UHTXHQF\ 0+]