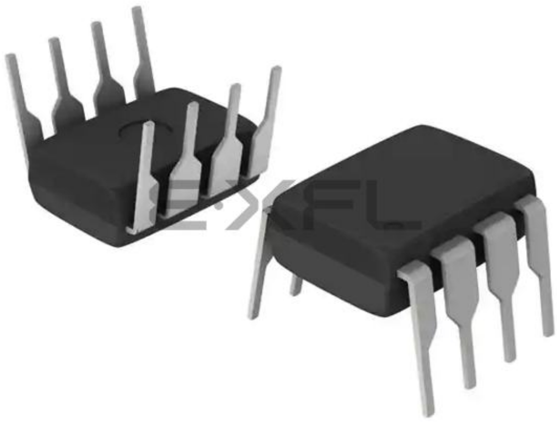

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What is "Embedded - Microcontrollers"?

"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	eZ8
Core Size	8-Bit
Speed	20MHz
Connectivity	IrDA, UART/USART
Peripherals	Brown-out Detect/Reset, LED, LVD, POR, PWM, WDT
Number of I/O	6
Program Memory Size	1KB (1K x 8)
Program Memory Type	FLASH
EEPROM Size	16 x 8
RAM Size	256 x 8
Voltage - Supply (Vcc/Vdd)	2.7V ~ 3.6V
Data Converters	-
Oscillator Type	Internal
Operating Temperature	-40°C ~ 105°C (TA)
Mounting Type	Through Hole
Package / Case	8-DIP (0.300", 7.62mm)
Supplier Device Package	-
Purchase URL	https://www.e-xfl.com/product-detail/zilog/z8f011apb020ec

Revision History

Each instance in Revision History reflects a change to this document from its previous revision. For more details, refer to the corresponding pages and appropriate links in the table below.

Date	Revision Level	Description	Page Number
September 2008	25	Added the references to F042A series back in Table 1, Available Packages, Table 5, Table 7, Table 13, Ordering Information sections.	3, 9, 16, 19, 37, 251
May 2008	24	Changed title to Z8 Encore! XP F082A Series and removed references to F042A series in Table 1, Available Packages, Table 5, Table 7, Table 13, Ordering Information sections.	All
December 2007	23	Updated Figure 3, Table 14, Table 58 through Table 60.	10, 41, and 95
July 2007	22	Updated Table 15 and Table 128. Updated Power consumption in Electrical Characteristics chapter.	44, 221
June 2007	21	Revision number update.	All

Part Number	Flash	RAM	NVDS	I/O Lines	Interrupts	16-Bit Timers w/PWM	10-Bit A/D Channels	UART with IrDA	Comparator	Temperature Sensor	Description
Z8 Encore! XP ® F082A Series Development Kit											
Z8F08A28100KITG											Z8 Encore! XP F082 A Series 28-Pin Development Kit
Z8F04A28100KITG											Z8 Encore! XP F042 A Series 28-Pin Development Kit
Z8F04A08100KITG											Z8 Encore! XP F042 A Series 8-Pin Development Kit
ZUSBSC00100ZACG											USB Smart Cable Accessory Kit
ZUSBOPTSC01ZACG											USB Opto-Isolated Smart Cable Accessory Kit
ZENETSC0100ZACG											Ethernet Smart Cable Accessory Kit