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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	M8C
Core Size	8-Bit
Speed	12MHz
Connectivity	I²C, SPI, UART/USART
Peripherals	LVD, POR, PWM, WDT
Number of I/O	16
Program Memory Size	8KB (8K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	512 x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 5.25V
Data Converters	-
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	20-SSOP (0.209", 5.30mm Width)
Supplier Device Package	20-SSOP
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/cy8c21312-12pvxet

Document History Page

Document Title: CY8C21312/CY8C21512, Automotive Extended PSoC ® Programmable System-on-Chip™ Document Number: 001-81890				
Rev.	ECN No.	Orig. of Change	Submission Date	Description of Change
**	3705964	MASJ	08/09/2012	New data sheet.
*A	4008934	KAUL	05/23/2013	Updated Features. Updated PSoC Functional Overview (Updated The Digital System). Updated Electrical Specifications (Updated DC Electrical Characteristics (Updated DC Chip-Level Specifications (Updated Table 8), updated DC GPIO Specifications (Updated Table 9), updated DC Operational Amplifier Specifications, updated DC Analog Mux Bus Specifications, updated DC POR and LVD Specifications, updated DC Programming Specifications (Updated Table 13)), updated AC Electrical Characteristics (Updated AC Chip-Level Specifications (Updated Table 14), updated AC GPIO Specifications (Updated Table 15), updated AC Operational Amplifier Specifications, updated AC Digital Block Specifications (Updated Table 17), updated AC External Clock Specifications, updated AC Programming Specifications, updated AC I2C Specifications)). Updated Packaging Information: Updated Tape and Reel Information: spec 51-51101 – Changed revision from *B to *C.
*B	4265204	JICG	01/28/2014	Removed ‘CY3207ISSP In-System Serial Programmer (ISSP)’ section.

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PSoC 1 | PSoC 3 | PSoC 5

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