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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	40MHz
Connectivity	CANbus, I²C, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, LVD, POR, PWM, WDT
Number of I/O	52
Program Memory Size	48KB (24K x 16)
Program Memory Type	FLASH
EEPROM Size	1K x 8
RAM Size	3.25K x 8
Voltage - Supply (Vcc/Vdd)	4.25V ~ 5.5V
Data Converters	A/D 12x10b
Oscillator Type	External
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	68-LCC (J-Lead)
Supplier Device Package	68-PLCC (24.23x24.23)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic18f6585-i-l

3.5 Boot Block Programming

The Boot Block segment is programmed in exactly the

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TABLE 5-4: CHECKSUM COMPUTATION (CONTINUED)

Device	Code-Protect	Checksum	Blank Value	0AAh at 0 and Max Address
PIC18F6680	None	SUM(0000:07FFh) + SUM(0800:3FFFh) + SUM(4000:7FFFh) + SUM(8000:0BFFFh) + SUM(0C000:0FFFFh) + (CFGW1L & 00h) + (CFGW1H & 2Fh) + (CFGW2L & 0Fh) + (CFGW2H & 1Fh) + (CFGW3L & 00h) + (CFGW3H & 80h) + (CFGW4L & 85h) + (CFGW4H & 00h) + (CFGW5L & 0Fh) + (CFGW5H & 0C0h) + (CFGW6L & 0Fh) + (CFGW6H & 0E0h) + (CFGW7L & 0Fh) + (CFGW7H & 40h)	036Fh	02C5h
	Boot Block	SUM(0800:3FFFh) + SUM(4000:7FFFh) + SUM(8000:0BFFFh) + SUM(0C000:0FFFFh) + (CFGW1L & 00h) + (CFGW1H & 2Fh) + (CFGW2L & 0Fh) + (CFGW2H & 1Fh) + (CFGW3L & 00h) + (CFGW3H & 80h) + (CFGW4L & 85h) + (CFGW4H & 00h) + (CFGW5L & 0Fh) + (CFGW5H & 80h) + (CFGW6L & 0Fh) + (CFGW6H & 0E0h) + (CFGW7L & 0Fh) + (CFGW7H & 40h) + SUM(IDs)	0FB47h	0FAEDh
	Boot/ Block1/ Block2	SUM(8000:0BFFFh) + SUM(0C000:0FFFFh) + (CFGW1L & 00h) + (CFGW1H & 2Fh) + (CFGW2L & 0Fh) + (CFGW2H & 1Fh) + (CFGW3L & 00h) + (CFGW3H & 80h) + (CFGW4L & 85h) + (CFGW4H & 00h) + (CFGW5L & 0Ch) + (CFGW5H & 80h) + (CFGW6L & 0Fh) + (CFGW6H & 0E0h) + (CFGW7L & 0Fh) + (CFGW7H & 40h) + SUM(IDs)	8344h	82EAh
	All	(CFGW1L & 00h) + (CFGW1H & 2Fh) + (CFGW2L & 0Fh) + (CFGW2H & 1Fh) + (CFGW3L & 00h) + (CFGW3H & 80h) + (CFGW4L & 85h) + (CFGW4H & 00h) + (CFGW5L & 00h) + (CFGW5H & 00h) + (CFGW6L & 0Fh) + (CFGW6H & 0E0h) + (CFGW7L & 0Fh) + (CFGW7H & 40h) + SUM(IDs)	02B8h	02B3h

Legend:

Item	Description
CFGW	= Configuration Word
SUM[a:b]	= Sum of locations, a to b inclusive
SUM_ID	= Byte-wise sum of lower four bits of all customer ID locations
+	= Addition
&	= Bit-wise AND