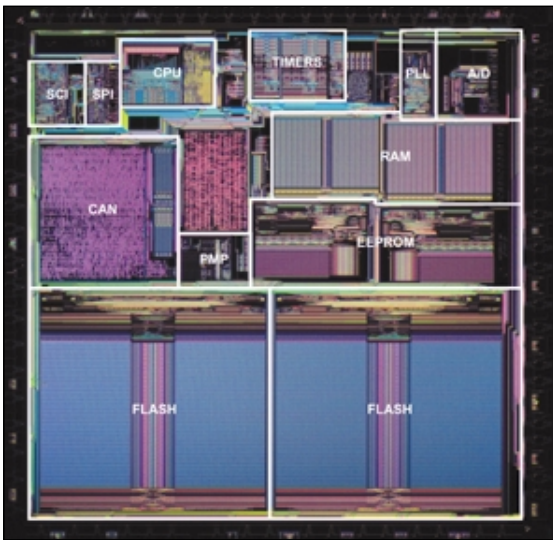# 68HC908AZ60

The Motorola 68HC908AZ60 provides designers with a highly integrated 8-bit FLASH microcontroller (MCU) solution. The 68HC908AZ60 builds on the success of the 68HC05 Family by offering a code compatible migration path to higher performance in-system programmable FLASH MCUs with integrated Controller Area Network (CAN) 2.0 A and B support.

Features

- 60K bytes in-system programmable FLASH memory
- 1K byte of on-chip EEPROM with security feature
- 2K bytes of on-chip RAM
- High-performance M68HC08 architecture
    - Code compatible with 68HC05
    - 8.4 MHz internal bus frequency
- msCAN Controller (Motorola Scalable Controller Area Network)
    - CAN 2.0a and 2.0b protocols
- Synchronous Serial Peripheral Interface (SPI)
    - Full duplex operation with master and slave modes
    - Up to 4 MHz master, and 8 MHz slave mode transfer rate

- Asynchronous Serial Communications Interface (SCI)
    - 32 programmable baud rates
- 16-bit Timer Interface Module (TIMA) with six programmable timer channels
    - Each channel configurable for input capture, output compare, or PWM
- 16-bit Timer Interface Module (TIMB) with two programmable timer channels
    - Each channel configurable for input capture, output compare, or PWM
- Periodic Interrupt Timer (PIT)
- Clock Generator Module (CGM)
- 15-channel 8-bit Analog to Digital Converter (ADC)
- Up to 48 I/O lines
    - 23 dedicated I/O lines
    - 25 shared I/O lines
- System protection features
    - Computer Operating Properly (COP) with optional reset
    - Low-voltage detection with optional reset
    - Illegal opcode detection with optional reset
    - Illegal address detection with optional reset
- Low-power design (fully static with STOP and WAIT modes)
- Master reset pin and power-on reset
- 64 QFP package
- Hyper-text linked on-line databook:
    - MC68HC908AZ60/D

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68HC9○8AZ60

DEVICE ORDERING INFORMATION

Production Order Part Number	Sample Order Part Number	Package Type	Temperature Range
MC68HC908AZ60CFU	KMC908AZ60CFU	QFP	-40 to +85C
MC68HC908AZ60VFU	NA	QFP	-40 to +105C
MC68HC908AZ60MFU	NA	QFP	-40 to +125C

68HC08 Application Notes

- AN1828/D FLASH Programming Via CAN
- AN1798/D CAN Bit Timing Requirements
- AN1752/D Data Structures for 8-bit MCUs
- AN1222/D Arithmetic Waveform Synthesis with the 68HC05/68HC08 MCUs
- AN1221/D Hamming Error Control Coding Techniques with the 68HC08 MCU
- AN1219/D M68HC08 Integer Math Routines
- AN1218/D 68HC05 to 68HC08 Optimization
- More MCU application notes available on our website

Comprehensive Development Support

Broad third party software and hardware support – see our web site at
http://www.mcu.motsps.com

EASY TO ORDER KIT | | RESALE*

MEVBUCANKIT	CAN evaluation kit	$250

INDIVIDUAL DEVELOPMENT TOOL COMPONENTS | | RESALE*

M68MMDS0508	High performance MMDS0508 emulator system	$2950
M68MMPFB0508	Cost-effective MMEVS modular evaluation system	$395
M68EM08AZ60	Emulation module daughter board	$295
M68CBL05C	Low noise flex-cable	$120
X68TC08AX48FU64	64 Lead QFP target head adapter	$250
M68TQS064SAG1	64 Lead TQ socket with guides	$65
M68TQP064SA1	64 Lead TQPACK	$95
M68SPGMR08	Serial programmer	$250
M68PA08AT60FNFU	Serial programming adaptor for AZ60	$225

*All prices are manufacturer's suggested resale.

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