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# MC68HC12 An Introduction: Software And Hardware Interfacing



## Synopsis

This comprehensive book from Delmar uses assembly language and the C language to provide readers with a refreshingly straightforward introduction to applications of the Motorola 16-bit microcontroller 68HC12. Using a methodical, step-by-step approach proven to facilitate learning, each of its thirteen chapters introduces a basic concept and proceeds gradually into more detail to guide readers to new programming skills while strengthening their understanding of 68HC12 architecture. The book begins by acquainting readers with 68HC12 CPU registers, addressing modes, Assembler directives, plus simple programs for arithmetic and program loops. Subsequent chapters feature detailed examples and tutorials that clearly demonstrate applications of parallel ports, timer functions, analog to digital (A/D) converters, serial communication interface, controller area network, plus on-chip and external memory expansion. Extraordinarily readable and easy to learn from, MC68HC12 An Introduction: Software and Hardware Interfacing - with its accompanying CD-ROM - serves as an excellent introductory book for students enrolled in electrical engineering, electronic engineering technology, and computer engineering technology. Clear and concise explanations, a glossary, and helpful appendices - including ICC12 library functions, SPI-compatible chips, plus a listing of 68HC12 development tool vendors, and more - also make this book ideal for any professional who wants to gain an understanding of Motorola 68HC12 hardware, software and interfacing.

## Book Information

Hardcover: 760 pages

Publisher: Delmar Cengage Learning; 1 edition (July 1, 2002)

Language: English

ISBN-10: 0766834484

ISBN-13: 978-0766834484

Product Dimensions: 9.5 x 8.3 x 1.3 inches

Shipping Weight: 3.2 pounds

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## Customer Reviews

I used this book for a couple of years to teach a junior/senior-level microcontroller class. There's enough material for a two-semester course, and the coverage of the HC12 is the most complete I have seen. It includes useful code for interfacing with many peripherals, from simple LEDs to CAN networks, but it also covers more theoretical problems, like multiprecision operations. The instructions are presented grouped by category (addition, subtraction, data manipulation, branch etc.), with nice summary tables, so with a few bookmarks it turns into a great reference. One cannot get the real benefit of this book without an assembler and simulator - I use the free assembler AsmIDE by Eric Engler and the free simulator SIMHC12 by Tom Almy, both available from the web. Ideally, one would also want a project board, to run programs on a real HC12. A few boards are described in Ch.3 (but they are not free - my own choice would be the CME-12B32 by Axiom, costs \$200).

This book is not for those just starting out in assembly language programming. This was basically my first time programming in assembly and this book was not a big help. It only skimmed the surface giving a general description of all the components of the 68HC12 microcontroller with no concrete examples to help visualize what was going on. The chapters on interrupts, timers, parallel IO, and serial IO were not very clear and could use some more clear and simple examples to follow. This book would make an excellent reference for someone who knows what they are doing already as the descriptions of the different components are quick and concise.

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