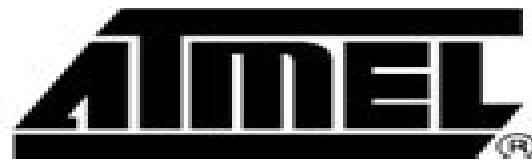


# C51 Microcontrollers Demo Board

## User Guide



# Atmel C51 Hardware Manual

**Salvador Pinillos Gimenez**

## Atmel C51 Hardware Manual:

**8051 Microcontrollers** Salvador Pinillos Gimenez, 2018-05-22 This textbook describes in detail the fundamental information about the 8051 microcontroller and it carefully teaches readers how to use the microcontroller to make both electronics hardware and software. In addition to discussion of the 8051 internals this text includes numerous solved examples and end of chapter exercises, laboratory and practical projects.

**Implementation of a CAN Bus based Measurement System on an FPGA Development Kit** Yu Zhu, 2010-07-05 Inhaltsangabe Abstract The Controller Area Network CAN is a serial field bus protocol which was originally used in road vehicles. Most people still use Microcontrollers MCU to control the CAN bus. The development of Field programmable Gate Array FPGA is very advanced and compared to the MCU the FPGA has many advantages. For this reason this thesis uses an Altera FPGA development kit to design a CAN bus based measurement system. During the work four Direct Digital Synthesizers DDS were simulated for four wave channels in the FPGA. All signals of the channels were transmitted from the FPGA to a CAN bus. Between the CAN bus and FPGA an Atmel CAN MCU which contains both serial and CAN ports was used as the third party. Whereby the data output from the FPGA were first transmitted to the serial port of the CAN MCU and then shifted to the CAN port of the CAN MCU. The CAN bus device NI CAN USB 8473 which was used in this thesis has a CAN port to connect to the CAN port of the CAN MCU and a USB 2.0 port to connect to a PC. Finally the data of the CAN bus was monitored on the PC with the LabVIEW platform. With this platform the data could also be transmitted to the CAN bus and then to the FPGA to change the tuning word of DDS. In order to achieve the speed limit of the complete measurement system the communication rates of FPGA CAN bus and CAN MCU were programmed to be the maximum. Inhaltsverzeichnis Table of Contents 1 Introduction 4 1 1 Background 4 1 2 Objective 4 1 3 Outline 6 2 CAN Introduction 7 2 1 Background 7 2 2 Architecture Layers 8 2 2 1 Physical Layer 8 2 2 2 Data Link Layer 10 2 2 3 Higher Layer 10 2 3 Frame Structure 11 2 3 1 Data Frame 11 2 3 2 Remote Frame 14 2 3 3 Error Frame 15 2 3 4 Overload Frame 16 2 3 5 Interframe Space 16 2 4 Frame Coding 17 2 5 Error Detecting and Handling 18 2 6 Fault Confinement 19 3 CAN and MCU Serial Port Effective Data Study 22 3 1 CAN Effective Data Study 22 3 2 MCU Serial Port Study 25 3 2 1 General 8051 MCU 25 3 2 2 Using Timer 227 3 2 3 X2 Mode 28 3 3 CAN vs MCU Serial Port 29 4 Experiment Components and Setup 32 4 1 Stratix III FPGA Development Kit 32 4 2 CAN MCU AT89C51CC0335 4 35 3 3 V Voltage Level Transistor 38 4 4 NI CAN USB 847340 4 5 PC with NI CAN Driver 42 4 6 Setup 42 5 Software Development 43 5 1 FPGA with Quartus II 43 5 1 1 DDS Design 43 5 1 2 PLL Application 45 5 1 3 UART Reception 49 5 1 4 UART Transmission 51 5 2 MCU with Keil C51 5 2 1 Serial Port Programming 53 5 2 2 CAN

**Designing Embedded Systems with PIC Microcontrollers** Tim Wilmshurst, 2006-10-24 Embedded Systems with PIC Microcontrollers Principles and Applications is a hands on introduction to the principles and practice of embedded system design using the PIC microcontroller. Packed with helpful examples and illustrations the book provides an in depth treatment of microcontroller design as well as programming in both assembly

language and C along with advanced topics such as techniques of connectivity and networking and real time operating systems. In this one book students get all they need to know to be highly proficient at embedded systems design. This text combines embedded systems principles with applications using the 16F84A, 16F873A and the 18F242 PIC microcontrollers. Students learn how to apply the principles using a multitude of sample designs and design ideas including a robot in the form of an autonomous guide vehicle. Coverage between software and hardware is fully balanced with full presentation given to microcontroller design and software programming using both assembler and C. The book is accompanied by a companion website containing copies of all programs and software tools used in the text and a student version of the C compiler. This textbook will be ideal for introductory courses and lab based courses on embedded systems microprocessors using the PIC microcontroller as well as more advanced courses which use the 18F series and teach C programming in an embedded environment. Engineers in industry and informed hobbyists will also find this book a valuable resource when designing and implementing both simple and sophisticated embedded systems using the PIC microcontroller. Gain the knowledge and skills required for developing today's embedded systems through use of the PIC microcontroller. Explore in detail the 16F84A, 16F873A and 18F242 microcontrollers as examples of the wider PIC family. Learn how to program in Assembler and C. Work through sample designs and design ideas including a robot in the form of an autonomous guided vehicle. Accompanied by a CD ROM containing copies of all programs and software tools used in the text and a student version of the C compiler.

**PIC Microcontrollers: Know It All** Lucio Di Jasio, Tim Wilmshurst, Dogan Ibrahim, John Morton, Martin P. Bates, Jack Smith, David W. Smith, Chuck Hellebuyck, 2007-07-30. The Newnes Know It All Series takes the best of what our authors have written over the past few years and creates a one stop reference for engineers involved in markets from communications to embedded systems and everywhere in between. PIC design and development a natural fit for this reference series as it is one of the most popular microcontrollers in the world and we have several superbly authored books on the subject. This material ranges from the basics to more advanced topics. There is also a very strong project basis to this learning. The average embedded engineer working with this microcontroller will be able to have any question answered by this compilation. He/she will also be able to work through real life problems via the projects contained in the book. The Newnes Know It All Series presentation of theory hard fact and project based direction will be a continual aid in helping the engineer to innovate in the workplace. Section I: An Introduction to PIC Microcontrollers Chapter 1: The PIC Microcontroller Family Chapter 2: Introducing the PIC 16 Series and the 16F84A Chapter 3: Parallel Ports, Power Supply and the Clock Oscillator Section II: Programming PIC Microcontrollers using Assembly Language Chapter 4: Starting to Program An Introduction to Assembler Chapter 5: Building Assembler Programs Chapter 6: Further Programming Techniques Chapter 7: Prototype Hardware Chapter 8: More PIC Applications and Devices Chapter 9: The PIC 1250x Series 8 pin PIC microcontrollers Chapter 10: Intermediate Operations using the PIC 12F675 Chapter 11: Using Inputs Chapter 12: Keypad Scanning Chapter 13: Program Examples Section III:

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Over 900 pages of practical hands on content in one book  
Huge market as of November 2006 Microchip Technology Inc a leading provider of microcontroller and analog semiconductors produced its 5 BILLIONth PIC microcontroller  
Several points of view giving the reader a complete 360 of this microcontroller

*Electronics World* ,2001      Digital System Design

- Use of Microcontroller Shenouda Dawoud,R. Peplow,2022-09-01  
Embedded systems are today widely deployed in just about every piece of machinery from toasters to spacecraft  
Embedded system designers face many challenges They are asked to produce increasingly complex systems using the latest technologies but these technologies are changing faster than ever  
They are asked to produce better quality designs with a shorter time to market They are asked to implement increasingly complex functionality but more importantly to satisfy numerous other constraints To achieve the current goals of design the designer must be aware with such design constraints and more importantly the factors that have a direct effect on them  
One of the challenges facing embedded system designers is the selection of the optimum processor for the application in hand  
single purpose general purpose or application specific Microcontrollers are one member of the family of the application specific processors  
The book concentrates on the use of microcontroller as the embedded system s processor and how to use it in many embedded system applications  
The book covers both the hardware and software aspects needed to design using microcontroller  
The book is ideal for undergraduate students and also the engineers that are working in the field of digital system design  
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Serial Communications and Network based interfaces

**Embedded Systems Programming** ,1998-07      *Moody's OTC Industrial Manual* ,1995

Companies traded over the counter or on regional conferences  
Advanced Materials in Microwaves and Optics David Wang,2012-01-24  
Selected peer reviewed papers from the 2011 International Conference on Advanced Materials in Microwaves and Optics AMMO 2011 September 30 October 1 2011 Bangkok Thailand

Mergent Industrial Manual ,2003      Electronic Components ,2007      *Circuit Cellar Ink* ,1997      Electronic Design ,1990      Electronics Now ,1999      EDN ,1998      Nuts & Volts ,2003-02      **Dr. Dobb's Journal** ,2006

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... ,2005    The Software Encyclopedia ,1986

The Top Books of the Year Atmel C51 Hardware Manual The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Atmel C51 Hardware Manual : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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