C51 Microcontrollers Demo Board
User Guide

<u>AIMEL</u>

Atmel C51 Hardware Manual

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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 end of chapter exercises laboratory and practical projects MICROCONTROLLER 8051 PRACTICAL MANUAL Basics, Programming & Interfacing Dr. Dinesh V. Kala, 2020-10-08 A Logic Gates AND OR NOT NAND NOR EX OR Review of all logic gates AND OR NOT NAND NOR EX OR their truth tables Appropriate combinations of gates result into an amazing innovative logical configuration Basic Logic Gates B Bit Nibble and Byte Bit The smallest unit of data in a computer is called bit Nibble Half a byte that is four bits is called a nibble Byte Eight bits forms a byte 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 1Introduction4 1 1Background4 1 2Objective4 1 3Outline6 2CAN Introduction7 2 1Background7 2 2Architecture Layers8 2 2 1Physical Layer8 2 2 2Data Link Layer10 2 2 3Higher Layer10 2 3Frame Structure11 2 3 1Data Frame11 2 3 2Remote Frame14 2 3 3Error Frame15 2 3 4Overload Frame16 2 3 5Interframe Space16 2 4Frame Coding17 2 5Error Detecting and Handling18 2 6Fault Confinement19 3CAN and MCU Serial Port Effective Data Study22 3 1CAN Effective Data Study22 3 2MCU Serial Port Study25 3 2 1General 8051 MCU25 3 2 2Using Timer 227 3 2 3X2 Mode28 3 3CAN vs MCU Serial Port29 4Experiment Components and Setup32 4 1Stratix III FPGA Development Kit32 4 2CAN MCU AT89C51CC0335 4 35 3 3 V Voltage Level Transistor38 4 4NI CAN USB 847340 4 5PC with NI CAN Driver42 4 6Setup42 5Software Development43 5 1FPGA with Quartus II43 5 1 1DDS Design43 5 1 2PLL Application45 5 1 3UART Reception49 5

1 4UART Transmission51 5 2MCU with Keil C5153 5 2 1Serial Port Programming53 5 2 2CAN Embedded Systems Design with 8051 Microcontrollers Zdravko Karakehayov, 2018-10-08 A presentation of developments in microcontroller technology providing lucid instructions on its many and varied applications It focuses on the popular eight bit microcontroller the 8051 and the 83C552 The text outlines a systematic methodology for small scale control dominated embedded systems and is accompanied by a disk of all the example problems included in the book **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 quide 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 complier Nanoelectronics, Circuits and Communication Systems Vijay Nath, Jyotsna Kumar Mandal, 2018-08-01 This book features selected papers presented at Third International Conference on Nanoelectronics Circuits and Communication Systems NCCS 2017 Covering topics such as MEMS and nanoelectronics wireless communications optical communication instrumentation signal processing Internet of Things image processing bioengineering green energy hybrid vehicles environmental science weather forecasting cloud computing renewable energy RFID CMOS sensors actuators transducers telemetry systems embedded systems and sensor network applications in mines it PIC Microcontrollers: Know It All Lucio Di is a valuable resource for young scholars researchers and academics

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Special Function Registers SFRs addressing modes timers serial I O and interrupts This is followed by an in depth section on assembly language which explains each instruction in the 8052 instruction set as well as related concepts such as assembly language syntax expressions assembly language directives and how to implement 16 bit mathematical functions The book continues with a thorough explanation of the 8052 hardware itself reviewing the function of each pin on the microcontroller and follows this with the design and explanation of a fully functional single board computer every section of the schematic design is explained in detail to provide the reader with a full understanding of how everything is connected and why The book closes with a section on hardware interfacing and software examples in which the reader will learn about the SBCMON monitor program for use on the single board computer interfacing with a 4x4 keypad communicating with a 16x2 LCD in direct connect as well as memory mapped fashion utilizing an external serial EEPROM via the SPI protocol and using the I2C communication standard to access an external real time clock The book takes the reader with absolutely no knowledge of the 8052 and provides him with the information necessary to understand the architecture design and build a functioning circuit based on the 8052 and write software to operate the 8052 in assembly language

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