

PIC Microcontroller: CCP modules

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ABSTRACT

There are many applications which based on Microcontroller. They are user friendly and capable of interacting with the external peripherals. To accomplish these tasks, a microcontroller device has digital inputs/outputs, pulsed inputs/outputs analog inputs/outputs, etc. There are serial and parallel data communications which are used in data communication. Parallel communication required more number of wires, and can communicate more number of bits at a time whereas Serial communication has gained more importance now-a-day. This is more appropriate to discuss some more PIC functions that can support the above mentioned requirements. Another requirement is External events and their occurrence at the exact point of time and generation of precise timing at the output pins of the microcontroller on a real time. There are two CCP modules in 16F877 supporting capture/compare and PWM functions discuss in present paper. This module allows detecting exact timing of the occurrence of an event or can generate exact timing at the output.

Keywords: PIC 16F877, CCP1, CCP2, PWM

I. INTRODUCTION

Microcontroller-based designs are very flexible and compact. Use of supporting integrated circuits for interfacing sensors and transducers makes the design very simple and cost effective. Use of serial ADC, SPI and I²C bus interface can save the number of microcontroller pins.

Measurement of physical quantities is an integral part of any engineering application. Various sensors are used to extract the information from a physical media and this information is then converted into suitable form.

Transmission of this information to a remote place is a need where it is monitored and used to take certain action. The role of microcontrollers must be very clear in all these systems. Earlier measurement systems used to have analog circuits for signal conditioning. However, due to digital processing of signals, today it is possible to carry out more complex functions in a better manner and then communicate this information more precisely to the display or controlling device. Two-way communication among various instruments is possible due to the built-in facilities of serial communication in microcontrollers. Newer design of signal transmitters, converters and controllers use digital processing of signals. Use of microcontroller-based instruments makes the system more reliable, flexible and powerful with many more facilities to fulfill the needs of control systems.

II. CAPTURE/COMPARE/PWM (CCP) MODULES IN PIC 16F877

A Capture/Compare/PWM (CCP) module supports the measurement, control and the generation of pulsed signals with respect to time precisely. In capture mode, it is possible to transfer the contents of an internal 16-bit timer into a special function register, upon detection of a rising or falling edge. The compare mode generates an interrupt, or changes the status of an output pin, when timer 1 matches a predefined comparison value.

Pulse Width modulation (PWM) mode allows generating a rectangular wave with programmable duty cycle at the user set frequency. There are two CCP modules in PIC 16F877, namely, CCP1 and CCP2. Both have almost similar operations in supporting capture, compare and PWM functions. Each of the CCP modules has a 16-bit capture register, a 16-bit compare register and a PWM

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Network World ,1988-05-02 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce **Japanese Technical Abstracts** ,1986 *The Software Encyclopedia* ,1986 **The Estates Gazette** ,1971-10 Machinery Buyers' Guide ,1995 **F&S Index United States Annual** ,1998 *Microcontrollers* Fernando E. Valdes-Perez,Ramon Pallas-Areny,2017-12-19 Microcontrollers exist in a wide variety of models with varying structures and numerous application opportunities Despite this diversity it is possible to find consistencies in the architecture of most microcontrollers Microcontrollers Fundamentals and Applications with PIC focuses on these common elements to describe the fundamentals of microcontroller design and programming Using clear concise language and a top bottom approach the book describes the parts that make up a microcontroller how they work and how they interact with each other It also explains how to program medium end PICs using assembler language Examines analog as well as digital signals This volume describes the structure and resources of general microcontrollers as well as PIC microcontrollers with a special focus on medium end devices The authors discuss memory organization and structure and the assembler language used for programming medium end PIC microcontrollers They also explore how microcontrollers can acquire process and generate digital signals explaining available techniques to deal with parallel input or output peripherals resources for real time use interrupts and the specific characteristics of serial data interfaces in PIC microcontrollers Finally the book describes the acquisition and generation of analog signals either using resources inside the chip or by connecting peripheral circuits Provides hands on clarification Using practical examples and applications to supplement each topic this volume provides the tools to thoroughly grasp the architecture and programming of microcontrollers It avoids overly specific details so readers are quickly led toward design implementation After mastering the material in this text they will understand how to efficiently use PIC microcontrollers in a design process *Bibliography of Asian Studies* ,1991 Intermediate C Programming for the PIC Microcontroller Hubert Henry Ward,2020-09-29 Delve into the exciting world of embedded programming with PIC microcontrollers in C The key to learning how to program is to understand how the code works and that is what you ll learn here Following C Programming for the PIC Microcontroller this book continues exploring the coding required to control the PIC microcontroller and can be used as a standalone single reference or paired with the previous title to enhance your programming skills You ll see how to control the position of a servo motor and use the compare aspect of the CCP module to create a square wave with varying frequency You ll also work with the capture aspect of the CCP to determine the frequency of a signal inputted to the PIC and use external and internal interrupts This book breaks down the programs with line by line analysis to give you a deep

understanding of the code After reading it you ll be able to use all three aspects of the Capture Compare and PWM module work with different types of interrupts create useful projects with the 7 segment display and use the LCD and push button keyboard What You ll Learn Create a small musical keyboard with the PIC Manage a stepper motor with the PIC Use the main features of the MPLABX IDE Interface the PIC to the real world Design and create useful programs based around the PIC18F4525 Who This Book Is For Engineering students and hobbyist who want to try their hand at embedded programming the PIC micros

Kürschners deutscher Gelehrten-Kalender Anna Kathrin Bleuler,2008-12-12 In der 22 Ausgabe von Kürschners Deutschem Gelehrten Kalender werden rund 70 000 Wissenschaftlerinnen und Wissenschaftler die an einer deutschsprachigen wissenschaftlichen Institution tätig sind vorgestellt Aufgeführt sind die wichtigsten biographischen Daten Adressen Angaben zu Forschungsschwerpunkten und Arbeitsgebieten sowie ausführliche bibliographische Hinweise und eine mit einer Auswahl der wichtigsten Veröffentlichungen in Zeitschriften Sammelwerken und Lexika Im Anhang finden sich ein Nekrolog ein Fachgebietsregister ein Festkalender und schließlich eine Liste aller deutschsprachigen Universitäten und Fachhochschulen Pluspunkte Die Einträge werden erstellt auf der Grundlage von Selbstauskünften der eingetragenen Personen und sorgfältiger Recherche Einzigartige Zusammenstellung und Zuverlässigkeit der Daten gerade im Vergleich mit dem Internet

Interfacing PIC Microcontrollers to Peripheral Devices Bohdan Borowik,2011-02-09 This book is targeted for students of electronics and computer sciences The first part of the book contains 15 original applications working on the PIC microcontroller including lighting diodes communication with RS232 bit banging interfacing to 7 segment and LCD displays interfacing to matrix keypad 3 x 4 working with PWM module and others This material can be used to cover one semester's teaching of microcontroller programming or similar classes The volume contains schematic diagrams and source codes with detailed descriptions All tests were prepared on the basis of the original documentation data sheets application notes The next three chapters The Stack Tables and Table Instruction and Data Memory pertain to PIC18F1320 Software referred to is also presented in assembly language Finally the application of the PIC24FJ microcontroller with the 240x128 LCD display T6963C and with accelerometer sensor written in C are described

This is (not) Rocket Science Lucio Di Jasio,2015-03-11 The introduction of the Core Independent Peripherals represents a major shift in the way PIC microcontroller solutions can be developed today While low end 32 bit MCUs competing for the same applications space are suggesting an ever stronger focus on software meaning more code more complexity and require higher clock speeds the Core Independent Peripherals philosophy is based on the use of autonomous and directly interconnected hardware peripheral blocks You will achieve more while reducing software complexity delivering faster response times at lower clock speeds using less power Back cover

Introductory Programs with the 32-bit PIC Microcontroller Hubert Ward,2023-05-13 Embark on a journey into the world of embedded programming This book introduces you to the 32bit PIC and will teach you how the main functions of C programming work and can be used with a PIC micro A one stop reference for the would be embedded

programmer you ll explore the electronics needed for a variety of programs as well as how to use different devices with the PIC The book starts with downloading the environment and creating a simple project one that uses different oscillators Phase Lock Loop and circuitry needed to create the different system clocks an easy entry point to this exciting environment You ll also review the MPLABX integrated development environment IDE and see how to program the 32Bit PIC which can be adapted to different PICs Throughout subsequent chapters you ll learn how to use a range of programs that use PIC modules such as the SPI I2C UART communication modules the ADC module the Capture Compare and Pulse Width Modulation module and the RTCC Real Time Clock and Calendar Module What You ll Learn Create a project in MPLABX Configure the different clock frequencies that are used in the 32bit PIC Build a variable delay subroutine to be used in a simple traffic lights program Use the MAX 7219 driver IC to control the 8by8 matrix display Program an I2C expander module to control the display on a LCD Who This Book Is For Readers who want to try their hand at embedded programming newcomers to programming the PIC 32 programmers who want to look into using MPLAB Harmony 3 and programmers who want to understand how C instructions work with respect to 32bit PIC Also students who are studying for an engineering qualification

The Quintessential PIC® Microcontroller Sid Katzen,2006-03-30 Written specifically for readers with no prior knowledge of computing electronics or logic design Uses real world hardware and software products to illustrate the material and includes numerous fully worked examples and self assessment questions

The Essential PIC18® Microcontroller Sid Katzen,2010-06-18 Microprocessors are the key component of the infrastructure of our 21st century electronic and digital information based society More than four billion are sold each year for use in intelligent electronic devices ranging from smart egg timer through to aircraft management systems Most of these processor devices appear in the form of highly integrated microcontrollers which comprize a core microprocessor together with memory and analog digital peripheral ports By using simple cores these single chip computers are the cost and size effective means of adding the brains to previous dumb widgets such as the credit card Using the same winning format as the successful Springer guide The Quintessential PIC Microcontroller this down to earth new textbook guide has been completely rewritten based on the more powerful PIC18 enhanced range Microchip MCU family Throughout the book commercial hardware and software products are used to illustrate the material as readers are provided real world in depth guidance on the design construction and programming of small embedded microcontroller based systems Suitable for stand alone usage the text does not require a prerequisite deep understanding of digital systems Topics and features uses an in depth bottom up approach to the topic of microcontroller design using the Microchip enhanced range PIC18 microcontroller family as the exemplar includes fully worked examples and self assessment questions with additional support material available on an associated website provides a standalone module on foundation topics in digital logic and computer architecture for microcontroller engineering discusses the hardware aspects of interfacing and interrupt handling with an emphasis on the integration of hardware and

software covers parallel and serial input output timing analog and EEPROM data handling techniques presents a practical build and program case study as well as illustrating simple testing strategies This useful text reference book will be of great value to industrial engineers hobbyists and people in academia Students of Electronic Engineering and Computer Science at both undergraduate and postgraduate level will also find this an ideal textbook with many helpful learning tools Dr Sid Katzen is Associate to the School of Engineering University of Ulster at Jordanstown Northern Ireland

Microcontroller Theory and Applications with the PIC18F M. Rafiquzzaman, 2025-01-08 Straightforward and comprehensive textbook on programming and interfacing techniques for the PIC18F4321 microcontroller supported by hundreds of illustrations throughout Microcontroller Theory and Applications with the PIC18F presents core information on the theory of microcontrollers and the fundamental concepts of assembly and C language programming and interfacing techniques associated with the Microchip s PIC18F4321 microcontroller Characteristics and principles common to typical microcontrollers are emphasized and basic microcontroller interfacing techniques are demonstrated via examples using the simplest possible devices such as switches LEDs Seven Segment Displays and the hexadecimal keyboard In addition interfacing the PIC18F with other devices such as LCD displays ADC DAC is also included Furthermore topics such as CCP Capture Compare PWM and Serial I O using assembly and C languages along with simple examples are also provided Information on the design of the PIC18F based digital DC voltmeter and interfacing the PIC18F with PWM Pulse Width Modulation mode to a DC motor using both assembly and C languages is provided Finally PIC18F Serial I O examples using both SPI and I2C modes are also included All these examples are illustrated by means of successful implementations in the laboratory Building on the success of previous editions this Third Edition has been extensively revised to include enhanced clarity in each chapter and additional illustrations end of chapter problems and examples Certain concepts such as stack bank memory programmed I O interrupt I O and CCP have been rewritten to better relate them to the PIC18F Details on the MPLABX assembler debugger and XC8 C Compiler are now included as well Microcontroller Theory and Applications with the PIC18F includes information on Microcontroller data types unsigned and signed binary numbers and ASCII code unpacked and packed binary coded decimal numbers and the evolution of the microcontroller Provides guidelines on how to choose the right language Assembly or C for specific applications PIC18F architecture and addressing modes covering register architecture memory organization and program and data memories Programming PIC18F programmed I O interrupt I O and interfacing PIC18F4321 to a hexadecimal keyboard and a seven segment display ADC DAC CCP and Serial I O interfacing techniques Microcontroller Theory and Applications with the PIC18F is an essential learning resource for students in related programs of study seeking information on basic concepts relating to a specific and simple microcontroller such as the PIC18F in an organized and simplified manner

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

Programming and Customizing the PIC Microcontroller Michael Predko, 1998 Microchip s PIC microcontroller is rapidly becoming the microcontroller of choice throughout the world This hands on tutorial and disk provide everything electronic designers engineers and advanced hobbyists need to tap the power of this invaluable chip the most complete description of PIC available over 30 experiments and ten complete PIC application projects a full set of DOS and Windows PIC development tools reusable source code and a complete PIC application program that can easily be tailored to the reader s needs *PIC Projects* Hassan Parchizadeh, Branislav Vuksanovic, 2009-08-10 This book is a collection of projects based around various microcontrollers from the PIC family The reader is carefully guided through the book from very simple to more complex projects in order to gradually build their knowledge about PIC microcontrollers and digital electronics in general On completion of this book the reader should be able to design and build their own projects and solve other practical problems in digital electronics Many books in this area are theory based and can tend toward being overly explanatory in their approach to the subject Courses are moving towards being more practically oriented and this book provides the ideal companion to students completing projects with PIC microcontrollers **Programming the PIC Microcontroller with MBASIC** Jack Smith, 2005-06-14 One of the most thorough introductions available to the world s most popular

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