

RESET

$\overline{\text{MCLR}}/\text{VPP} \rightarrow$ 1

PORTA

$\text{RA0}/\text{AN0} \leftrightarrow$ 2

$\text{RA1}/\text{AN1} \leftrightarrow$ 3

$\text{RA2}/\text{AN2}/\text{VREF-}/\text{CVREF} \leftrightarrow$ 4

$\text{RA3}/\text{AN3}/\text{VREF+} \leftrightarrow$ 5

$\text{RA4}/\text{T0CKI}/\text{C1OUT} \leftrightarrow$ 6

$\text{RA5}/\text{AN4}/\text{SS}/\text{C2OUT} \leftrightarrow$ 7

PORTE

$\text{RE0}/\text{RD}/\text{AN5} \leftrightarrow$ 8

$\text{RE1}/\text{WR}/\text{AN6} \leftrightarrow$ 9

$\text{RE2}/\text{CS}/\text{AN7} \leftrightarrow$ 10

POWER

$\text{VDD} \rightarrow$ 11

$\text{VSS} \rightarrow$ 12

Oscillator

$\text{OSC1}/\text{CLKI} \rightarrow$ 13

$\text{OSC2}/\text{CLKO} \leftarrow$ 14

$\text{RC0}/\text{T1OSO}/\text{T1CKI} \leftrightarrow$ 15

$\text{RC1}/\text{T1OSI}/\text{CCP2} \leftrightarrow$ 16

$\text{RC2}/\text{CCP1} \leftrightarrow$ 17

$\text{RC3}/\text{SCK}/\text{SCL} \leftrightarrow$ 18

PORTC

$\text{RD0}/\text{PSP0} \leftrightarrow$ 19

$\text{RD1}/\text{PSP1} \leftrightarrow$ 20

PIC16F877A

40 $\leftrightarrow$ $\text{RB7}/\text{PGD}$

39 $\leftrightarrow$ $\text{RB6}/\text{PGC}$

38 $\leftrightarrow$ RB5

37 $\leftrightarrow$ RB4

36 $\leftrightarrow$ $\text{RB3}/\text{PGM}$

35 $\leftrightarrow$ RB2

34 $\leftrightarrow$ RB1

33 $\leftrightarrow$ $\text{RB0}/\text{INT}$

PORTB

32 $\leftarrow$ VDD

31 $\leftarrow$ VSS

POWER

30 $\leftrightarrow$ $\text{RD7}/\text{PSP7}$

29 $\leftrightarrow$ $\text{RD6}/\text{PSP6}$

28 $\leftrightarrow$ $\text{RD5}/\text{PSP5}$

27 $\leftrightarrow$ $\text{RD4}/\text{PSP4}$

PORTD

26 $\leftrightarrow$ $\text{RC7}/\text{RX}/\text{DI}$

25 $\leftrightarrow$ $\text{RC6}/\text{TX}/\text{CK}$

24 $\leftrightarrow$ $\text{RC5}/\text{SDO}$

23 $\leftrightarrow$ $\text{RC4}/\text{SDI}/\text{SDA}$

PORTC

22 $\leftrightarrow$ $\text{RD3}/\text{PSP3}$

21 $\leftrightarrow$ $\text{RD2}/\text{PSP2}$

PORTD

Pic Microcontroller 16f877a Pin Diagram Explanation

Chuck Hellebuyck



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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

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Peatman uses detailed block diagrams to illustrate all control bits status bits and registers associated with assorted functions He also uses examples throughout to illustrate points and to show readers how issues can be handled

Introduction to PIC Microcontroller and Its Architecture Ashraf Almadhoun, 2020-04-06

A microcomputer is a term used to describe systems that have a microprocessor a memory Data Program and input and output I O devices Additionally other components such as timers counters and analog to digital ADC converters may be included in some microcomputer systems Thus a microcomputer system ranges from a large computer that has a hard disk CD ROM and printers to a bite size single chip embedded microcontroller In this book we will cover single silicon chip microcomputers Such microcomputer systems are well known by the name Microcontrollers and they are used in many devices in almost every house such as TV remote control

units microwave ovens cookers Mp3 players personal computers washing machines and refrigerators In this book we will cover the following topics Introduction to PIC Microcontroller Advantages of PIC Microcontroller Main differences between a microcontroller and a computer Common uses of PIC Microcontroller in real life applications Different Memory types and different PIC Microcontrollers families How to choose the right Microcontroller for your Project **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

Programming PIC Microcontrollers with PICBASIC Chuck Hellebuyck,2002-12-11 This comprehensive tutorial assumes no prior experience with PICBASIC It opens with an introduction to such basic concepts as variables statements operators and structures This is followed by discussion of the two most commonly used PICBASIC compilers The author then discusses programming the most common version of the PIC microcontroller the 15F84 The remainder of the book examines several real world examples of programming PICs with PICBASIC In keeping with the integrated nature of embedded technology both hardware and software are discussed in these examples circuit details are given so that readers may replicate the designs for themselves or use them as the starting points for their development efforts Offers a complete introduction to programming the world s most commonly used microcontroller the Microchip PIC with the powerful but easy to use PICBASIC language Gives numerous design examples and projects to illustrate important concepts [A Complete Notebook on PIC Microcontrollers](#) Milan Verle,2019-12-07 The situation we find ourselves today in the field of microcontrollers had its beginnings in the development of technology of integrated circuits This development has enabled to store hundreds of thousands of transistors into one chip That was a precondition for the manufacture of microprocessors and the first computers were made by adding external peripherals such as memory input output lines timers and others to it Further increasing of package density resulted in creating an integrated circuit that contained both processors and peripherals That is how the first chip containing a microcomputer later known as a microcontroller has developed If you have not done it so far then it is high time to learn what the microcontrollers are and how they operate Numerous illustrations and practical examples along with a detailed description of the PIC16F887 will make you enjoy your work with the PIC microcontrollers [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 *Programming and Customizing the PIC Microcontroller* Myke Predko,2007-05-22 MASTER PIC MICROCONTROLLER TECHNOLOGY AND ADD POWER TO

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The PIC Microcontroller: Your Personal Introductory Course John Morton, 2005-09-23 John Morton offers a uniquely concise and practical guide to getting up and running with the PIC Microcontroller The PIC is one of the most popular of the microcontrollers that are transforming electronic project work and product design and this book is the ideal introduction for students teachers technicians and electronics enthusiasts Assuming no prior knowledge of microcontrollers and introducing the PIC Microcontroller's capabilities through simple projects this book is ideal for electronics hobbyists students school pupils and technicians The step by step explanations and the useful projects make it ideal for student and pupil self study this is not just a reference book you start work with the PIC microcontroller straight away The revised third edition focuses entirely on the re-programmable flash PIC microcontrollers such as the PIC16F54 PIC16F84 and the extraordinary 8 pin PIC12F508 and PIC12F675 devices Demystifies the leading microcontroller for students engineers and hobbyists Emphasis on putting the PIC to work not theoretical microelectronics Simple programs and circuits introduce key features and commands through project work

Programming the PIC Microcontroller with MBASIC Jack Smith, 2005-07-19 The Microchip PIC family of microcontrollers is the most popular series of microcontrollers in the world However no microcontroller is of any use without software to make it perform useful functions This comprehensive reference focuses on designing with Microchip's mid range PIC line using MBASIC a powerful but easy to learn programming language It illustrates MBASIC's abilities through a series of design examples beginning with simple PIC based projects and proceeding through more advanced designs Unlike other references however it also covers essential hardware and software design fundamentals of the PIC microcontroller series including programming in assembly language when needed to supplement the capabilities of MBASIC Details of hardware software interfacing to the PIC are also provided

BENEFIT TO THE READER This book provides one of the most thorough introductions available to the world's most popular

microcontroller with numerous hardware and software working design examples which engineers students and hobbyists can directly apply to their design work and studies Using MBASIC it is possible to develop working programs for the PIC in a much shorter time frame than when using assembly language Offers a complete introduction to programming the most popular microcontroller in the world using the MBASIC compiler from a company that is committed to supporting the book both through purchases and promotion Provides numerous real world design examples all carefully tested PIC Microcontrollers Martin P. Bates, 2004-06-09 The use of microcontroller based solutions to everyday design problems in electronics is the most important development in the field since the introduction of the microprocessor itself The PIC family is established as the number one microcontroller at an introductory level Assuming no prior knowledge of microprocessors Martin Bates provides a comprehensive introduction to microprocessor systems and applications covering all the basic principles of microelectronics Using the latest Windows development software MPLAB the author goes on to introduce microelectronic systems through the most popular PIC devices currently used for project work both in schools and colleges as well as undergraduate university courses Students of introductory level microelectronics including microprocessor microcontroller systems courses introductory embedded systems design and control electronics will find this highly illustrated text covers all their requirements for working with the PIC Part A covers the essential principles concentrating on a systems approach The PIC itself is covered in Part B step by step leading to demonstration programmes using labels subroutines timer and interrupts Part C then shows how applications may be developed using the latest Windows software and some hardware prototyping methods The new edition is suitable for a range of students and PIC enthusiasts from beginner to first and second year undergraduate level In the UK the book is of specific relevance to AVCE as well as BTEC National and Higher National programmes in electronic engineering A comprehensive introductory text in microelectronic systems written round the leading chip for project work Uses the latest Windows development software MPLAB and the most popular types of PIC for accessible and low cost practical work Focuses on the 16F84 as the starting point for introducing the basic architecture of the PIC but also covers newer chips in the 16F8X range and 8 pin mini PICs *BASIC Stamp* Claus Kuhnel, Klaus Zahnert, 2000-08-17 BASIC Stamp An Introduction to Microcontrollers introduces microcontroller theory using the Parallax BASIC Stamp I II and IIsx The BASIC Stamp microcontroller is based on Microchip's PIC hardware with some modifications and is very approachable for beginning users Once the basic theory is established BASIC Stamp 2 E walks the reader through applications suitable for designers as well as the home hobbyist These applications can be used as is or as a basis for further modifications to suit specific design needs BASIC Stamp 2 E thoroughly explains the hardware base of the BASIC Stamp microcontroller including internal architecture the peripheral functions as well as providing the technical data sheets for each kind of chip The authors also explain the BASIC Stamp development systems including DOS and Windows based tools in tremendous detail As an added feature BASIC Stamp 2 E includes full instructions for using PBASIC

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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

PICmicro Microcontroller Pocket Reference Michael Predko,2001 Designed to complement Programming Customizing the PICMICRO this book contains a minimum of verbiage and serves as an immediate device code and circuit lookup for experienced PICMICRO applications designers 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

PIC Microcontroller Project Book John Iovine,2000 A true beginner s guide ot the popular PIC microcontroller including 12 projects to build

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