

**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  $\leftrightarrow$   $\text{RB5}$

37  $\leftrightarrow$   $\text{RB4}$

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

35  $\leftrightarrow$   $\text{RB2}$

34  $\leftrightarrow$   $\text{RB1}$

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

**PORTB**

32  $\leftarrow$   $\text{VDD}$

31  $\leftarrow$   $\text{VSS}$

**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

**Clemens Wendtner**



## **Pic Microcontroller 16f877a Pin Diagram Explanation :**

Programming the PIC Microcontroller with MBASIC Jack Smith, 2005-06-14 One of the most thorough introductions available to the world's most popular microcontroller     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 Programming PIC Microcontrollers using PicBasic

Chapter 14 PicBasic and PicBasic Pro Programming

Chapter 15 Simple PIC Projects

Chapter 16 Moving On with the 16F876

Chapter 17 Communication

Section IV Programming PIC Microcontrollers using MBasic

Chapter 18 MBasic Compiler and Development Boards

Chapter 19 The Basics Output

Chapter 20 The Basics Digital Input

Chapter 21 Introductory Stepper Motors

Chapter 22 Digital Temperature Sensors and Real Time Clocks

Chapter 23 Infrared Remote Controls

Section V Programming PIC Microcontrollers using C

Chapter 24 Getting Started

Chapter 25 Programming Loops

Chapter 26 More Loops

Chapter 27 NUMB3RS

Chapter 28 Interrupts

Chapter 29 Taking a Look under the Hood

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     *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

**Interfacing PIC Microcontrollers** Martin P. Bates, 2011-04-01 The advent of interactive design software has allowed the simulation of microcontrollers without having to build and debug hardware Interfacing PIC Microcontrollers Embedded Design by Interactive Simulation discusses microcontroller design and applications The book is divided into three parts Part 1 introduces the PIC 16F877 architecture software and simulation system Part 2 discusses interfacing techniques Part 3 discusses power outputs serial communication sensor interfacing and the design of MCU based systems Each topic is illustrated by designs based on the 16F877 The Proteus design software by Labcenter Electronics is used throughout The book is suited for more advanced readers with prior knowledge of the basics of microcontroller systems Comprehensive coverage of a topic not widely explored in the wealth of PIC books on the market concentrating on the popular PIC16F877 device Circuit simulation software allows step by step examples supplied as assembly source code to be run interactively aiding student technician and hobbyist learning A companion website will provide downloads of application files used in the book and links to associated manufacturers

**Making PIC Microcontroller Instruments and Controllers** Harprit Singh Sandhu, 2009-02-14 Essential Design Techniques From the Workbench of a Pro Harness the power of the PIC microcontroller unit with practical common sense instruction from an engineering expert Through eight real world projects clear illustrations and detailed schematics Making PIC Microcontroller Instruments and Controllers shows you step by step how to design and build versatile PIC based devices Configure all necessary hardware and software read input voltages work with control

pulses interface with peripherals and debug your results You ll also get valuable appendices covering technical terms abbreviations and a list of sample programs available online Build a tachometer that gathers processes and displays data Make accurate metronomes using internal PIC timers Construct an asynchronous pulse counter that tracks marbles Read temperature information through an analog to digital converter Use a gravity sensor and servos to control the position of a table Assemble an eight point touch screen with an input scanning routine Engineer an adjustable programmable single point controller Capture log monitor and store data from a solar collector

**Principles of Embedded System Design** Mr. Rohit Manglik,2024-03-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *PIC Microcontrollers* Martin Bates,2011-10-11 Martin P Bates

**Electronics Mechanic (Theory) - II** Mr. Rohit Manglik,2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**The Quintessential PIC® Microcontroller** Sid Katzen,2007-07-05 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 Let's GO PIC!!! The book Marco Gottardo,2012-09-05 This book is the culmination of Marco Gottardo s teaching and work in electronics and automation It is the first book in a self teaching series that affords a solid foundation in PIC microcontroller programming The book contains a range of fully explained problems and exercises as well as three comprehensive essays which are milestones for any industrial automation course Key chapters are devoted to interrupt systems analog signals and LCD displays The book looks at HITECH C language on IDE MPLAB software and on Micro GT Mini and IDE hardware platforms which can be easily ordered online It also explains LadderPIC a language that enables microcontrollers to be programmed in the same way as PLCs A follow up Let s Make Robots will be published in December 2012 Journal of the Chinese Chemical Society ,2006

**Design with PIC Microcontrollers** John B. Peatman,1998 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

**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

**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

**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 Microcontroller* Kashif Adhami,2012-09-28

**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 an hobbyists Emphasis on putting the PIC to work not theoretical microelectronics Simple programs and circuits introduce key features and commands through project work

*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

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      **Programming**

**Arduino Projects with the PIC Microcontroller** Hubert Henry Ward, 2022 Now that you've built a few Arduino projects and reused some pre-written sketches it's time to move on to the next step and explore the world of embedded programming To truly up skill you'll need to understand how your code works and that's where this book comes in You'll review and work with several Arduino projects plus two extra ones written for a PIC microcontroller Each one is accompanied with a basic circuit diagram and photos of the program working Ideal for the Arduino hobbyist and PIC programmers who want to merge their skills this comprehensive book will go over every aspect of the 8 bit microcontroller provide line by line analysis of the code and in the end show you how to bring your Arduino projects to the PIC microcontroller using C You'll gain a full understanding of how the C instructions work and can be used with the PIC microcontroller Programming Arduino Projects with the PIC Microcontroller is your one stop reference resource You will Examine how the code works Create code to perform any function Build practical projects on vero boards with full vero plans and circuit diagrams Understand how programs work by simulation with an ECAD package



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## **Table of Contents Pic Microcontroller 16f877a Pin Diagram Explanation**

1. Understanding the eBook Pic Microcontroller 16f877a Pin Diagram Explanation
  - The Rise of Digital Reading Pic Microcontroller 16f877a Pin Diagram Explanation
  - Advantages of eBooks Over Traditional Books
2. Identifying Pic Microcontroller 16f877a Pin Diagram Explanation
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Pic Microcontroller 16f877a Pin Diagram Explanation
  - User-Friendly Interface

4. Exploring eBook Recommendations from Pic Microcontroller 16f877a Pin Diagram Explanation
  - Personalized Recommendations
  - Pic Microcontroller 16f877a Pin Diagram Explanation User Reviews and Ratings
  - Pic Microcontroller 16f877a Pin Diagram Explanation and Bestseller Lists
5. Accessing Pic Microcontroller 16f877a Pin Diagram Explanation Free and Paid eBooks
  - Pic Microcontroller 16f877a Pin Diagram Explanation Public Domain eBooks
  - Pic Microcontroller 16f877a Pin Diagram Explanation eBook Subscription Services
  - Pic Microcontroller 16f877a Pin Diagram Explanation Budget-Friendly Options
6. Navigating Pic Microcontroller 16f877a Pin Diagram Explanation eBook Formats
  - ePub, PDF, MOBI, and More
  - Pic Microcontroller 16f877a Pin Diagram Explanation Compatibility with Devices
  - Pic Microcontroller 16f877a Pin Diagram Explanation Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pic Microcontroller 16f877a Pin Diagram Explanation
  - Highlighting and Note-Taking Pic Microcontroller 16f877a Pin Diagram Explanation
  - Interactive Elements Pic Microcontroller 16f877a Pin Diagram Explanation
8. Staying Engaged with Pic Microcontroller 16f877a Pin Diagram Explanation
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pic Microcontroller 16f877a Pin Diagram Explanation
9. Balancing eBooks and Physical Books Pic Microcontroller 16f877a Pin Diagram Explanation
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pic Microcontroller 16f877a Pin Diagram Explanation
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Pic Microcontroller 16f877a Pin Diagram Explanation
  - Setting Reading Goals Pic Microcontroller 16f877a Pin Diagram Explanation
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Pic Microcontroller 16f877a Pin Diagram Explanation
  - Fact-Checking eBook Content of Pic Microcontroller 16f877a Pin Diagram Explanation
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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