

Serial Port Using Visual Basic .NET and Windows

Introduction

The serial (COM) port is one of the simplest ways to communicate between a PC and a microcontroller circuit. Most microcontrollers have hardware serial ports and most microcontroller compilers have built-in functions to read from and write to the hardware port.

Hardware serial ports with their 9-pin D connectors have disappeared from laptop and desktop computers, but are easily produced with a low-cost USB-to-serial cable adaptor. For embedded systems, a common approach is to add a FT232R USB-to-serial chip to the circuit so that the hardware connects to the PC through USB. Another option is to add a USB-to-serial module, for example the UM232R by FTDI or the USBMOD3 from DLP Design. These modules add glue circuits and a USB connector to the converter chip for an easy-to-use self contained solution.

On the PC side, the USB adaptor appears as a virtual serial port that can be accessed by an application program just like a hardware COM port. On the microcontroller side, the adaptor appears as a standard serial port.

If using an adaptor cable, the application circuit needs a converter chip, for example the Dallas DS275 or the Maxim MAX233 to convert RS-232 serial levels to TTL logic levels.

Circuits and code for serial port connections to a PICmicro are in the ME 8243 Boot Camp exercises.

Checking the Virtual Serial Port Connection

Check that device appears as a COM port on the PC by using the Device Manager. Right-click on My Computer > Properties > Hardware > Device Manager > Ports (COM & LPT). Should see something like PL2303 COM Port (COM6), which means the cable is showing up as COM port number 6. Your port number may be different. The port number will change if you plug the cable into a different USB port on your computer.

For quick access to the Device Manager: Start -> Run -> devmgmt.msc

The simplest way to test a serial connection is to connect to a PC terminal program. In the terminal program, set to use the COM port that connects to the adapter cable. Set the baud rate to the rate specified in the PICmicro program. For PC terminal program, use TeraTerm (ver 4.64 or later, <http://en.sourceforge.jp/projects/teraterm/releases/>). Open TeraTerm, attach to serial port at correct baud rate, then save session into teraterm.ini.

Software Examples

Example code in this document was written on the PC side in Visual Basic 2008 Express Edition and on the PIC chip microcontroller side in C using the CCS compiler.

Bare-Minimum VB.net Code

The serial port functions are in the .NET System.IO.Ports library.

Serial Port Using Visual Basic And Windows

Helen Zhang,Gang Shen,David Jin



Serial Port Using Visual Basic And Windows:

The Windows Serial Port Programming Handbook Ying Bai,2004-11-19 The popularity of serial communications demands that additional serial port interfaces be developed to meet the expanding requirements of users The Windows Serial Port Programming Handbook illustrates the principles and methods of developing various serial port interfaces using multiple languages This comprehensive hands on and practical guide

Visual Basic 6 Secrets Harold Davis,1998 Learn the behind the scenes tricks and techniques that will take your Visual Basic skills to the next level of programming excellence Davis provides all the secrets readers need to create sophisticated robust full featured commercial quality Visual Basic applications

PC-BASED INSTRUMENTATION MATHIVANAN, N.,2007-01-21 This well organized book is intended for the undergraduate students of Electrical Electronics and Communications Computer Instrumentation and Instrumentation and Control Engineering and postgraduate students of science in Electronics Physics and Instrumentation Data acquisition being the core of all PC based measurements and control instrumentation systems engineering this book presents detailed discussions on PC bus based data acquisition remote data acquisition GPIB data acquisition and networked data acquisition configurations This book also describes sensors signal conditioning and principles of PC based data acquisition It provides several latest and advanced techniques This book stresses the need for understanding the use of Personal Computers in measurement and control instrumentation applications

KEY FEATURES Provides several laboratory experiments to help the readers to gain hands on experience in PC based measurement and control Provides a number of review questions problems with solutions to the odd numbered problems and objective type questions with solutions Presents a number of working circuits design and programming examples Presents comparison of properties features and characteristics of different bus systems interface standards and network protocols Includes the advanced techniques such as sigma delta converter RS 485 I2C bus SPI bus FireWire IEEE 488 2 SCPI and Fieldbus standards

Serial Port Complete: The Developer's Guide, Second Edition Jan Axelson,2007-12-01 When PCs and peripherals began showing up with USB ports in the late 1990s many predicted that legacy serial COM ports would soon be obsolete The predictions were wrong While most standard peripherals now use USB serial ports are the interface of choice for devices that require simple programming long cables operation in harsh environments or basic networking capabilities Serial ports are more versatile then ever due to developments such as USB virtual COM ports the NET SerialPort class enhanced microcontroller USARTs and new wireless interfaces Serial Port Complete Second Edition is a completely revised and updated guide to programming and interfacing to COM ports USB virtual COM ports and serial ports in embedded systems Author Jan Axelson shows how to Access COM ports using the SerialPort class in Microsoft s NET Framework Program embedded systems for serial port communications Design and program USB devices accessed as virtual COM ports Upgrade RS 232 designs to USB with no changes to host software or device firmware Design circuits for electrically harsh environments Create serial networks of embedded systems and PCs

Use serial ports in wireless links Example code is provided for PCs and embedded systems in both Basic and C C The author maintains a website with articles program code and other links of interest to developers of serial port applications janaxelson.com

Serial Port Complete Jan Axelson,2007 PC COM ports USB virtual COM ports and ports in embedded systems are all addressed in this updated guide to programming interfacing and using serial ports Topics include using NET s SerialPort class for COM port communications on PCs upgrading existing RS 232 designs to USB or wireless networks and creating serial networks of embedded systems and PCs Example circuits and code provide a quick start to projects Installation and maintenance staff will also find tips for ensuring reliable operation and problem tracking

MICROPROCESSORS, PC HARDWARE AND INTERFACING MATHIVANAN, N.,2003-01-01 Designed for a one semester course in Finite Element Method this compact and well organized text presents FEM as a tool to find approximate solutions to differential equations This provides the student a better perspective on the technique and its wide range of applications This approach reflects the current trend as the present day applications range from structures to biomechanics to electromagnetics unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis After an introduction and a review of mathematical preliminaries the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM This is followed by a lucid presentation of one dimensional and two dimensional finite elements and finite element formulation for dynamics The book concludes with some case studies that focus on industrial problems and Appendices that include mini project topics based on near real life problems Postgraduate Senior undergraduate students of civil mechanical and aeronautical engineering will find this text extremely useful it will also appeal to the practising engineers and the teaching community

Practical .NET 2.0 Networking Projects Wei-Meng Lee,2007-04-30 Practical NET 2 0 Networking Projects demonstrates some of the key networking technologies that are being made easily accessible through NET Framework 2 0 It discusses communication between wired machines and between networks and mobile devices The book teaches you about the technologies by walking you through sample projects in a straightforward and direct way The book begins by discussing background theory so you ll get comfortable with the layout of the NET Framework and Compact Framework from a networking perspective Then you ll use the APIs within these frameworks to build a variety of cutting edge networking applications that cover everything from Bluetooth and RFID communication to sockets programming and chat servers You ll build working examples for each project which you can also customize and use for your own purposes The featured projects cover Basic introduction to network programming in NET 2 0 Sockets programming Serial communication Bluetooth and GPS Infrared networking to mobile devices RFID

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Visual Basic Programmer's Guide to the Win32 API Daniel Appleman,1996 A book CD ROM bible covering every aspect of the core Win32 API from window management to interprocess communication techniques Subjects include translating C and C based Win32 documentation to Visual Basic porting 16 bit applications to 32 bits and writing applications designed to run on both 16 and 32 bit Windows platforms The accompanying CD ROM contains complete text sample code and articles Requires no knowledge of languages other than Visual Basic Annotation copyrighted by Book News Inc Portland OR *Advanced Research on Industry, Information System and Material Engineering, IISME2011* Helen Zhang,Gang Shen,David Jin,2011-02-21 Selected peer reviewed papers from the 2011 International Conference on Industry Information System and Material Engineering IISME 2011 April 16 17 2011 Guangzhou China *The Waite Group's Visual Basic Source Code Library* Brian Shea,Waite Group,1998 As the only book of its kind The Waite Group s Visual Basic Source Code Library follows in a line of classic Waite group programming titles For Visual Basic programmers of all levels this book offers you as a beginner a useful source for new ideas and insight and as an experienced programmer a vast collection of well organized information to further your ability This book will specifically help you add to your own librabry of functions and modules that you use over and over by presenting more than 200 complete functions listings and routines that have been proven and tested by Visual Basic professionals Consisting of logical sections for the programmer this book makes it easy for you to find the function you need Whether you re a beginning or experienced Visual Basic programmer The Waite Group s Visual Basic Source Code Library will have you creating better programming in no time **Visual Basic Developer's Toolkit** Martin A. W. Nemzow,1996 The ultimate resource package for Visual Basic developers this book covers not only how to create applications but also how to succeed with Visual Basic It looks at everything from how to develop professional applications

with lightning speed to working in a team environment and using VB to develop client server applications *Visual Basic 5 Secrets* Harold Davis,1997 Visual Basic X Secrets is loaded with essential effective and surprising techniques that can speed development of the reader s most pressing projects and satisfy their most demanding clients The CD ROM includes all source codes and templates from the book and VB5 tools from Apex VideoSoft Microhelp FarPoint and more **Visual Basic 4 Secrets** Harold Davis,1996 Visual Basic is a relatively easy language to learn up to a certain point Learning the secrets beyond that point what developers call the VB Wall is another story Now this guide collects all in one place everything the VB programmer needs to create sophisticated professional applications The CD ROM offers the book s working code samples plus third party developer products and custom controls **Artificial Heart and MS Windows Based Graphical User Interface [sic] for the Electrocardiogram Measurement and Analysis Project (EMAP)** Eddie Yu-Hin Lam,Vincent Tat-Shun Ng,Alex Chi-Hong Pang,1995 **The Waite Group's Visual Basic How-To** Robert Arnson,1992

Programming and Customizing PICmicro (R) Microcontrollers Myke Predko,2000-12-25 This book is a fully updated and revised compendium of PIC programming information Comprehensive coverage of the PICMicros hardware architecture and software schemes will complement the host of experiments and projects making this a true Learn as you go tutorial New sections on basic electronics and basic programming have been added for less sophisticated users along with 10 new projects and 20 new experiments New pedagogical features have also been added such as Programmers Tips and Hardware Fast FAQs Key Features Printed Circuit Board for a PICMicro programmer included with the book This programmer will have the capability to program all the PICMicros used by the application Twice as many projects including a PICMicro based Webserver Twenty new Experiments to help the user better understand how the PICMicro works An introduction to Electronics and Programming in the Appendices along with engineering formulas and PICMicro web references

Programming and Customizing the PIC Microcontroller Myke Predko,2007-05-22 MASTER PIC MICROCONTROLLER TECHNOLOGY AND ADD POWER TO YOUR NEXT PROJECT Tap into the latest advancements in PIC technology with the fully revamped Third Edition of McGraw Hill s Programming and Customizing the PIC Microcontroller Long known as the subject s definitive text this indispensable volume comes packed with more than 600 illustrations and provides comprehensive easy to understand coverage of the PIC microcontroller s hardware and software schemes With 100 experiments projects and libraries you get a firm grasp of PICs how they work and the ins and outs of their most dynamic applications Written by renowned technology guru Myke Predko this updated edition features a streamlined more accessible format and delivers Concentration on the three major PIC families to help you fully understand the synergy between the Assembly BASIC and C programming languages Coverage of the latest program development tools A refresher in electronics and programming as well as reference material to minimize the searching you will have to do WHAT S INSIDE Setting up your own PIC microcontroller development lab PIC MCU basics PIC microcontroller interfacing capabilities software

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Table of Contents Serial Port Using Visual Basic And Windows

1. Understanding the eBook Serial Port Using Visual Basic And Windows
 - The Rise of Digital Reading Serial Port Using Visual Basic And Windows
 - Advantages of eBooks Over Traditional Books
2. Identifying Serial Port Using Visual Basic And Windows
 - 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 Serial Port Using Visual Basic And Windows
 - User-Friendly Interface
4. Exploring eBook Recommendations from Serial Port Using Visual Basic And Windows
 - Personalized Recommendations
 - Serial Port Using Visual Basic And Windows User Reviews and Ratings
 - Serial Port Using Visual Basic And Windows and Bestseller Lists
5. Accessing Serial Port Using Visual Basic And Windows Free and Paid eBooks
 - Serial Port Using Visual Basic And Windows Public Domain eBooks
 - Serial Port Using Visual Basic And Windows eBook Subscription Services

- Serial Port Using Visual Basic And Windows Budget-Friendly Options
- 6. Navigating Serial Port Using Visual Basic And Windows eBook Formats
 - ePub, PDF, MOBI, and More
 - Serial Port Using Visual Basic And Windows Compatibility with Devices
 - Serial Port Using Visual Basic And Windows Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Serial Port Using Visual Basic And Windows
 - Highlighting and Note-Taking Serial Port Using Visual Basic And Windows
 - Interactive Elements Serial Port Using Visual Basic And Windows
- 8. Staying Engaged with Serial Port Using Visual Basic And Windows
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Serial Port Using Visual Basic And Windows
- 9. Balancing eBooks and Physical Books Serial Port Using Visual Basic And Windows
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Serial Port Using Visual Basic And Windows
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Serial Port Using Visual Basic And Windows
 - Setting Reading Goals Serial Port Using Visual Basic And Windows
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Serial Port Using Visual Basic And Windows
 - Fact-Checking eBook Content of Serial Port Using Visual Basic And Windows
 - 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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