

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

Samuel Phung



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 *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

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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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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 **PC Magazine 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 **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

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 **Dr. Dobb's Journal** ,1998 **Software Reviews on File** ,1993 **C/C++ Users Journal** ,1998 **Visual Basic 2005 Express** Wally Wang,2006 The first CD ROM includes code examples to use and modify and movies that demonstrate how to

accomplish specific tasks The second CD ROM includes a full non evaluation version of Microsoft Visual Basic 2005 Express Edition

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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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