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 though 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 convertor 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/ttssh2/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.

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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 .NET 4 Wrox eBook Bundle Bill Evjen,Christian Nagel,Rod Stephens,Robert Vieira,Nick Randolph,Scott Hanselman,2010-10-26 The books included in this set are 9780470502204 Professional ASP NET 4 in C and VB Written by three highly recognized and regarded ASP NET experts this book provides comprehensive coverage on ASP NET 4 with a unique approach featuring

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