



4-Port RS232 Serial PCI with 16550 UART

Quick Installation Guide

Introduction

The *4-Port RS232 Serial PCI with 16550 UART* is a high-speed serial card that provides four additional serial ports to your system.

Key Features and Benefits

- Compliant with PCI Local Bus Specification, Revision 2.3
- Supports data transfer rate up to 230Kb/s
- Supports up to 256-byte FIFO buffer

System Requirements

- Pentium® or equivalent computer with an available 32-/64-bit PCI or PCI-X slot
- Windows® 8 (32-/64-bit) / 7 (32-/64-bit) / Vista (32-/64-bit) / XP (32-/64-bit) / Server 2003 & 2008 (32-/64-bit) / Server 2008 R2 / 2000 / ME / 98SE / 98 / DOS

Package Contents

- 4-Port RS232 Serial PCI with 16550 UART
- Slot bracket with 2 DB9 (9-pin) serial ports
- Driver CD
- Quick installation guide

Layout

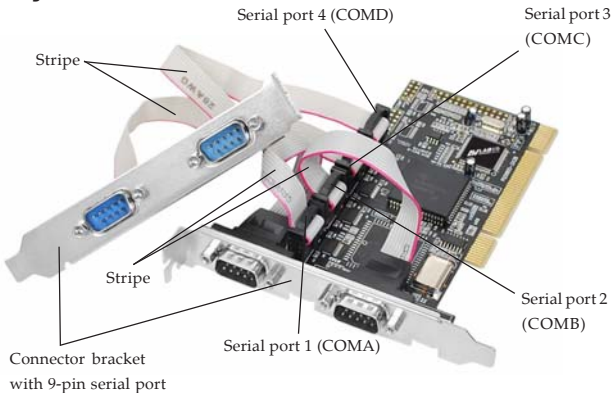


Figure 1: Layout

Note: Make sure the stripe on the ribbon cable is align to the pin 1 of the serial header when connected for proper connection.

Hardware Installation

General instructions for installing the card are provided below. Since the design of computer cases and motherboards vary, refer to your computer's reference manual for further information, if needed.

Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer's case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

1. Turn OFF the power to your computer and any other connected peripheral devices.
2. Unplug the power cord and remove the cover from the computer.
3. Remove the slot bracket from an available PCI slot.
4. Connect the **2-Port DB9 (9-Pin) serial port cable** connector and remove another slot bracket cover from from the system chassis. See **Figure 1** on page 2 for more details. Skip this step if you only need two serial ports.

5. To install the card, carefully align the card's bus connector with the selected PCI slot on the motherboard. Push the board down firmly, but gently, until it is well seated.
6. Replace the slot bracket's holding screw to secure the card.
7. Mount the second serial port and secure it with the slot bracket holding screw. Skip this step if you only need two serial ports.
8. Replace the computer cover and reconnect the power cord.

Driver Installation

This section provides information on how to install the *4-Port RS232 Serial PCI with 16550 UART* drivers.

Windows 8 (32-/64-bit) / 7 (32-/64-bit) / Server 2008 R2

1. Install the board and boot up Windows.

Note: Windows 7 will automatically search preconfigured driver folders for the proper driver. This process may take several minutes. Do not interrupt this process.

2. Right click **Computer**, click **Manage**, click **Device Manager**.
3. Insert the driver CD. Starting from top, right click **PCI Serial Port** under **Other Devices**, click **Update Driver Software**. Close the **AutoPlay** box if displayed.
4. Click **Browse my computer for driver software**.
For 32-bit: Type in **D:\32-bit**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
For 64-bit: Type in **D:\64-bit**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
5. At **Windows has successfully updated your driver software**, click **Close**.
6. Repeat steps 3-5.
7. Right click **PCI Simple Communications Controller**, click **Update Driver Software**.
8. Repeat steps 4-5 to complete the installation.

Windows Vista (32-/64-bit)

1. Install the board and boot up Windows.

2. At the **Found New Hardware** window, click **Locate and install driver software (recommended)**, then click **Continue**.
3. Click **I don't have the disk. Show me other options**.
4. Insert the driver CD. Click **Browse my computer for driver software**.
5. *For 32-bit:* Type in **D:\32-bit**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
For 64-bit: Type in **D:\64-bit**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
6. At **The software for this device has been successfully installed**, click **Close**.
7. Repeat steps 3-6 to complete the installation.

Windows XP (32-/64-bit) / Server 2003 (32-/64-bit)

1. Install the board and boot up Windows.
2. At the **Found New Hardware Wizard**, select **No, not this time**, click **Next**. (Skip this step if not prompted)

3. Select **Install from a list or specific location**, then click **Next**.
4. Insert the driver CD. Select **Include this location in the search**, uncheck the other box.
For 32-bit: Type in **D:\32-bit**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
For 64-bit: Type in **D:\64-bit**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
5. Click **Finish**.
6. Repeat steps 2-5 to complete the installation.

Windows Server 2008 (32-/64-bit)

1. Install the board and boot up Windows.
2. At the **Found New Hardware** window, click **Locate and install driver software (recommended)**.
3. Insert the driver CD.
4. Click **Don't search online**.
5. Click **I don't have the disc. Show me other options**.

6. Click **Browse my computer for driver software (advanced)**.
7. *For 32-bit:* Type in **D:\32-bit**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
For 64-bit: Type in **D:\64-bit**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
8. Click **Close**.
9. Repeat steps 4-8 to complete the installation.

Windows 2000

1. At the **Found New Hardware Wizard**, click **Next**.
2. Select **Search for a suitable driver for my device (recommended)**, then click **Next**.
3. Check **Specify a location**, uncheck the other options and click **Next**.
4. Insert the driver CD, type in **D:\2000**, then click **OK**. (Change **D:** to match your CD/DVD-ROM drive letter)
5. Click **Next**, then click **Finish**.
6. Repeat steps 1-5 to complete the installation.

To Verify Windows Installation

1. Check in Device Manager to verify installation.

For Windows 8 / 7 / XP / Server 2003 & 2008 / Server 2008 R2 / 2000: Right click **Computer** or **My Computer**, click **Manage**, then click **Device Manager**.

For Windows Vista: Right click **Computer**, click **Manage**, click **Continue**, then click **Device Manager**.

For Windows Server 2008: Right click **Computer**, click **Manage**, double click **Diagnostics**, then click **Device Manager**.

2. Double click **Ports (COM & LPT)**, **High-Speed PCI Serial Port** listed two times and **PCI-ISA Communication** listed two times...should be displayed.
3. Double click **Multifunction adapters**, **PCI Multifunction-IO Controller** should be displayed.

Changing Serial Port Number

Some serial port devices need a specific communication port in order to function properly. If your serial port device works, do not make any changes. This feature available in Windows 8/7/Vista/XP/Server 2003 & 2008/Server 2008 R2/2000 only.

1. Right click **My Computer**, click **Manage**, then click **Device Manager**.
2. Click on the + (plus sign) in front of **Ports (COM & LPT)**, double click the **High-Speed PCI Serial** serial port you want to change.
3. Click the **Port Settings** tab.
4. Click **Change Port Number** or **Advanced**.
5. Click the down arrow next to the **COM Port Number** box. Select a communication port that is not in use, then click **OK**.
6. Click **OK** to save the changes.

Windows ME

1. At the **Add New Hardware Wizard**, select **Specify the location of the driver (Advanced)**, click **Next**.

2. Check **Specify a location**, uncheck the other box, insert the driver CD, type in **D:\ME**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
3. Click **Next**, then **Finish**.
4. Type in **D:\ME**, then click **OK** to complete the installation. (Change **D:** to match your CD/DVD-ROM drive letter)

Windows 98 / 98SE

1. At the **Add New Hardware Wizard**, click **Next**.
2. Select **Search for the best driver for your device. (Recommended)**, then click **Next**.
3. Select **Specify a location**, uncheck the other boxes, insert the driver CD, type in **D:\9x**, then click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
4. Click **Next**, then **Finish**. If prompted, at the **Insert Disk** box click **OK**. Type in **D:\9x**, click **OK** to complete the installation. (Change **D:** to match your CD/DVD-ROM drive letter)

To Verify Windows ME / 98SE / 98 / Installation

1. Right click **Computer** or **My Computer**, click **Properties**, click **Device Manager**.
2. Click on the + (plus sign) in front of **Ports (COM & LPT)**, and a **M65-PCI Serial Port ...** should be displayed four times.
3. Double click **M65Multifunction, M65-PCI Multi-I/O Controller** should be displayed.

DOS

1. Insert the driver CD. From the **C:\>** prompt, type **copy D:\dos*.***, and press **Enter**. (Change **D:** to match your CD-ROM drive letter)
2. Type **edit autoexec.bat**, and press **Enter**.
3. Add **C:\Gemdosin.exe -a -r** at the bottom of the **Autoexec.bat** file.
4. Go to **File**, save the changes and exit.
5. Restart your system for the new setup to take effect.