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
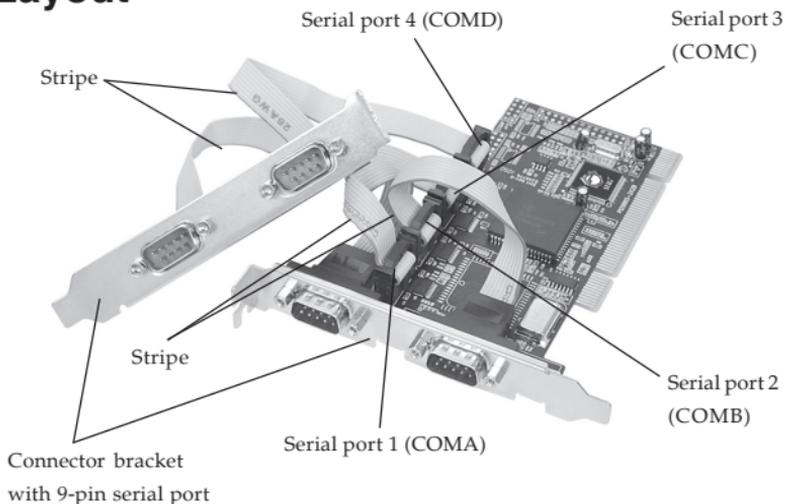- Driver CD
- Quick installation guide

Layout

Serial port 4 (COMD)

Serial port 3 (COMC)

Stripe

Stripe

Serial port 2 (COMB)

Connector bracket with 9-pin serial port

Serial port 1 (COMA)

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 Multifuntion-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.

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Technical Support and Warranty

QUESTIONS? SIIG's **Online Support** has answers! Simply visit our web site at *www.siig.com* and click **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and a technical support analyst will promptly respond.

SIIG offers a 2-year manufacturer warranty with this product. This warranty covers the original purchaser and guarantees the product to be free of any defects in materials or workmanship for two (2) years from the date of purchase of the product.

SIIG will, at our discretion, repair or replace (with an identical product or product having similar features and functionality) the product if defective in materials or workmanship. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Please see our web site for more warranty details.

If you encounter any problems with this product, please follow the procedures below.

A) If it is within the store's return policy period, please return the product to the store where you purchased from.

B) If your purchase has passed the store's return policy period, please follow the steps below to have the product repaired or replaced.

> **Step 1:** Submit your RMA request.
>
> Go to **www.siig.com**, click **Support**, then **REQUEST A PRODUCT REPLACEMENT** to submit a request to SIIG RMA or fax a request to 510-657-5962. Your RMA request will be processed, if the product is determined to be defective, an RMA number will be issued.

> **Step 2:** After obtaining an RMA number, ship the product.
> - Properly pack the product for shipping. All accessories that came with the original package must be included.
> - Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.
> - You are responsible for the cost of shipping to SIIG. Ship the product to the following address:
>
>   **SIIG, Inc.**
>   **6078 Stewart Avenue**
>   **Fremont, CA 94538-3152, USA**
>   **RMA #:** _____
>
> - SIIG will ship the repaired or replaced product via Ground in the U.S. and International Economy outside of the U.S. at no cost to the customer.

About SIIG, Inc.

Founded in 1985, SIIG, Inc. is a leading manufacturer of IT connectivity solutions (including Serial ATA and Ultra ATA Controllers, FireWire, USB, and legacy I/O adapters) that bridge the connection between Desktop/Notebook systems and external peripherals. SIIG continues to grow by adding A/V and Digital Signage connectivity solutions to our extensive portfolio. SIIG products offer comprehensive user manuals, many user-friendly features, and are backed by an extensive manufacturer warranty. High quality control standards are evident by the overall ease of installation and compatibility of our products, as well as one of the lowest defective return rates in the industry. SIIG products can be found in computer retail stores, mail order catalogs, through major distributors, system integrators, and VARs in the Americas and the UK, and through e-commerce sites.

PRODUCT NAME

4-Port RS232 Serial PCI with 16550 UART

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B
OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

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