

PCI Express Serial Card

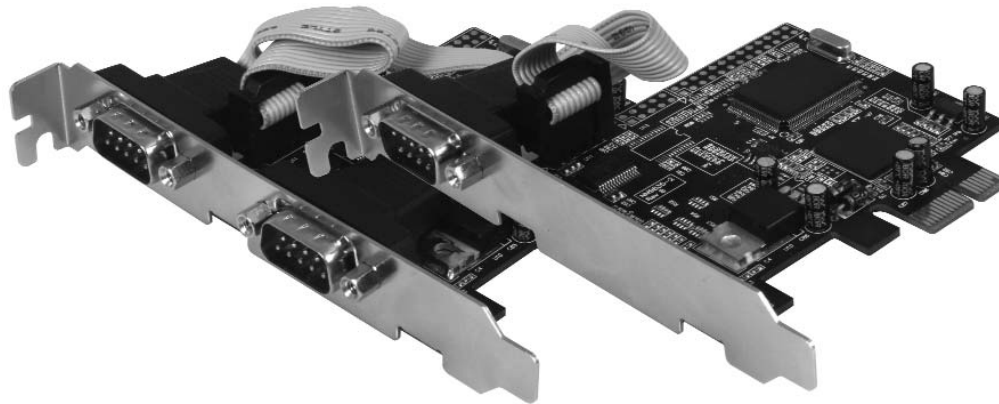
1 Port 16650 PCI Express Serial Card

2 Port 16650 PCI Express Serial Card

PEX1S550

PEX2S550

Instruction Manual



Actual product may vary from photo

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FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

Thank you for purchasing a PCI Express Serial Card. This card allows you to add 1 (PEX1S550) or 2 (PEX2S550) independent DB9 or DB25 RS-232 serial ports to your computer, for industrial communication, automation applications and more. The card is compliant with PCI Express Base Specification 1.0a, and offers data transfer rates of up to 230.4Kbps, to help ensure smooth operation of your serial peripherals.

Features

- Compliant with PCI Express base specification rev. 1.0a
- Supports 1x UART serial port
- 1 or 2 independent RS-232 serial ports built-in
- Built-in 16C650 UART with 16 byte transmit-receive FIFO data transfer rates up to 230.4Kbps
- Supports Microsoft Windows 2000/XP/2003 Server

Before You Begin

System Requirements

- PCI Express enabled computer with one available PCI Express slot
- Operating systems supported: Windows 2000/XP/2003

Contents

This package should contain:

- PCI Express serial card (1)
- Software CD ROM (1)
- User's Manual (1)

Installation

Installing the PCI Express serial card

1. Shut down all power connected to the computer, as well as all devices connected to the computer peripherally (i.e. Printers, Monitors, Scanners etc.). As an added step to ensure safe installation, unplug the power supply from the computer.
2. Remove the computer cover. For more detailed instruction on how to perform this step, please refer to the documentation that was included with your computer at the time of purchase.
3. Locate an empty PCI Express slot, removing the metal bracket covering the corresponding empty port/socket.
4. Position the serial card above the open PCI Express slot, ensuring that the card is properly aligned with the slot. Insert the card firmly into the slot, distributing force evenly across the length of the board. Once inserted, secure the card into the adjoining socket (previously covered by metal bracket), using the correct size screw (if necessary, please consult documentation included with computer at time of purchase).
5. Replace the computer cover and re-connect all power to the computer.

Driver installation

Please note: To ensure proper installation, please perform the physical installation prior to installing the accompanying drivers.

Windows 2000:

1. Upon rebooting the computer for the first time following the installation of the serial card, Windows will detect the PCI serial card, and prompt for driver installation, with the **Found New Hardware Wizard**. Please click on **Next**, to advance to the next screen.
2. You will then be notified that **This wizard will complete the installation for this device: PCI Simple Communications Controller**. Please select **Search for a suitable driver for my device (recommended)** and click **Next**.
3. The **Found New Hardware Wizard** will then ask what you want the wizard to do. Please select **Search for a suitable driver for my device (recommended)** and click on **Next**.
4. At the next screen, please select **Specify a location** and ensure that all other checkboxes are empty. Click **Next**.
5. Insert the Drivers CD into your CD-ROM/DVD-ROM drive. Here, you can either browse to the folder in which the drivers are located, or type in the exact path. To browse, please click the **Browse** button, and select **D:\PCIE\2S\2000**, where D:\ is the letter designated for your CD-ROM/DVD-ROM drive. Click **Next**, followed by **Finish**.

Windows XP:

1. Upon rebooting the computer for the first time following the installation of the serial card, Windows will detect the PCI serial card, and prompt for driver installation, with the **Found New Hardware Wizard**. Please select **Install from a list or specific location (Advanced)**, then click **Next**.
2. Insert the Drivers CD, and select **Include this location in the search**, ensuring that this is the only selection made (no other checkmarks present). In the text box provided, either type in **D:\PCIe\2S\XP**, or browse to this file by clicking the **Browse** button and navigating to the file. Once the file path has been entered, please click **Next**.
3. If the **Hardware Installation** window pops up, click **Continue Anyways**, then **Finish**.
4. You will be required to follow steps 1-3 twice more, for installation to complete. Once finished, please restart your computer for the settings/installation to take effect.

Windows Server 2003:

1. Upon rebooting the computer for the first time following the installation of the serial card, Windows will detect the PCI serial card, and prompt for driver installation, with the **Found New Hardware Wizard**. Please select **Install from a list or specific location (Advanced)**, then click **Next**.
2. Insert the Drivers CD, and select **Include this location in the search**, ensuring that this is the only selection made (no other checkmarks present). In the text box provided, either type in **D:\PCIe\2S\2003**, or browse to this file by clicking the **Browse** button and navigating to the file. Once the file path appears in the text box, please click **Next**.
3. If the **Hardware Installation** window pops up, click **Continue Anyways**, then **Finish**.
4. You will be required to follow steps 1-3 twice more, for installation to complete. Once finished, please restart your computer for the settings/installation to take effect.

Verifying Installation

1. Right-click **My Computer**, then click **Manage**. Click on **Device Manager**.
2. Click on the + symbol located to the left of **Ports (COM & LPT)**. You should see **NetMos PCI Serial Port** listed (once for **PEX1S550**, twice for **PEX2S550**)
3. Click on the + symbol located to the left of **Multifunction adapters**. Here, you should see **NetMos 9835** listed (once for **PEX1S550**, twice for **PEX2S550**).

Adjusting COM Port Addresses

Some serial devices need a specific COM port in order to work. If your serial devices work properly, there is no need to modify the COM port settings.

1. From the **Device Manager** window, double-click on **Ports (COM & LPT)**, then double-click the NetMos PCI Serial Port you wish to change.
2. Select the **Settings** tab and click **Advanced**.
3. Click the down arrow that is next to the **COM Port Number** box, select a COM port that is not in use, then click **OK** and close the **Device Manager** to save the changes.
4. **(PEX2S550 only)**: Please follow steps 1-3 again to change the second Serial port if necessary.

Specifications

Certifications (Regulatory)	FCC, CE, RoHS, WEEE
Bus Type	PCI Express (PCIe)
Connectors	PEX1S550 : DB9 Male Serial x 1 PEX2S550 : DB9 Male Serial x 2
Maximum Data Transfer Rate	230.4 Kbps/sec
Chipset	PEX1S550 : MOSCHIP MCS9820CV PEX2S550 : MOSCHIP MCS9835CV
Operating system support	Windows: 2000/XP/Server 2003
Operating Temperature	0°C - 70°C
Data bits	5,6,7,8-bit
Parity	Even, odd, none, or force parity generations
Dimensions	92 x 21 x 120mm
Weight	PEX1S550 : 90g PEX2S550 : 100g

Technical Support

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This product is backed by a lifetime warranty. In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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