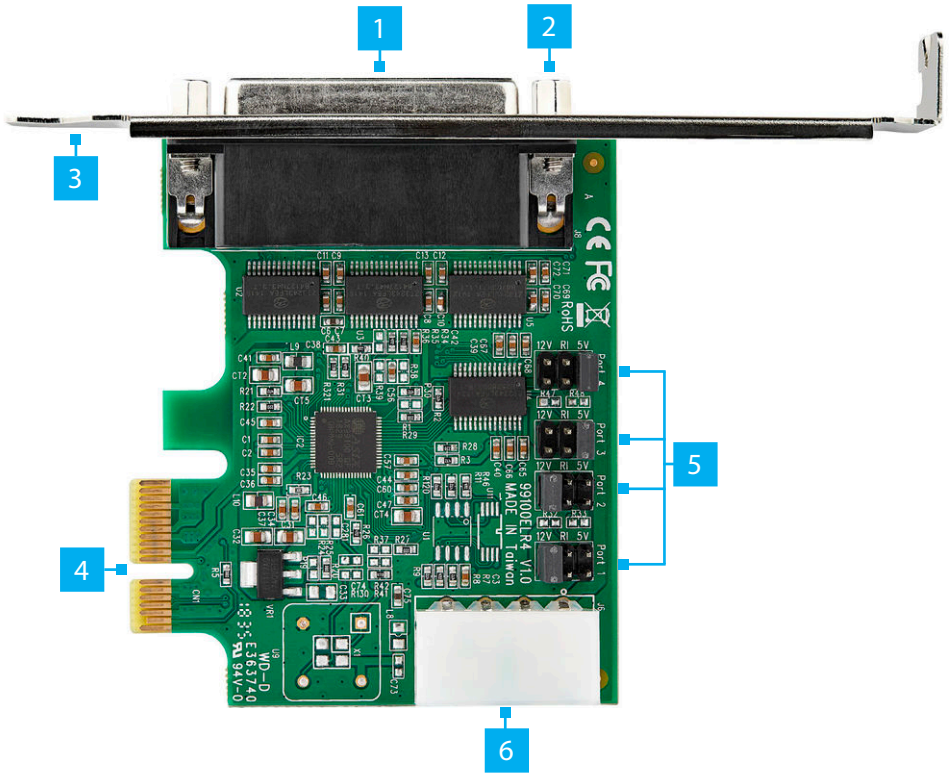
4-Port PCI Express RS232 Serial Card - 16950 UART

Product Diagram (PEX4S953 and PEX4S953LP)



Port		Function
1	Break-out Cable Port	• Connect the **4-Port DB9 Break-out Cable** to connect up to 4 **Serial Devices**
2	Stand-offs	• Attach the **Bracket** to the **PCI Express Serial Card** • Secure the **4-Port DB9 Break-out Cable** to the **Break-out Cable Port**
3	Bracket	• Attach the **PCI Express Serial Card** to the **Computer**
4	PCI Express Bus Connector	• Connect the **PCI Express Serial Card** to the **Computer Motherboard**
5	Jumpers	• Configure the individual **Serial Connector** power settings
6	LP4 Power Connector	• Used to connect an **LP4 Power Source**

Requirements

For the latest requirements please visit:
www.startech.com/PEX4S953 - or - www.startech.com/PEX4S953LP.

- PCIe Slot
- Needle-Nose Pliers
- (Optional) LP4 Power Source

Installation

WARNING!
PCI Express Serial Cards can be severely damaged by static electricity. Make sure that you are properly grounded before you open the **Computer Case** or touch the **PCI Express Serial Card**. You should wear an **Anti-Static Strap** when you install any computer component. If an **Anti-Static Strap** isn't available, discharge any built-up static electricity by touching a large **Grounded Metal Surface** for several seconds. Only handle the **PCI Express Serial Card** by its edges and don't touch the gold connectors.

Jumper Configuration

Note: *This **PCI Express Serial Card** is specially designed to allow for power output from the ninth pin of the **Serial Connector(s)** for **Serial Devices** that support power over serial. **Jumper** configuration is a requirement when connecting **Serial Devices** that require power through a **Serial Connector**.*

The **Jumper** can be moved into one of three different positions in order to set the power output voltage for the **Serial Connector**. The default setting for the **Jumpers** is **RI**, no power. The **LP4 Power Connector** must be connected after configuring the **Jumper** to **5V** or **12V** of power. To configure the **Jumper**, complete the following:

1. Ensure the **Computer Power** is **Off.**
2. Locate the **Jumper** for **Port One** and carefully remove the **Jumper**. Lift the **Jumper** straight up and off of the **PCI Express Serial Card**.

   Notes: *The **Jumper** is located on the right hand side, labeled as **Port 1** on the **Printed Circuit Board**.*

   ***Always** hold the **Card** by the edges.*
3. Determine the power setting that is required for **Port One**.
4. Position the **Jumper** over the set of **Pins** that correspond with the desired **Serial Connector Power Setting**. See *Figure 1* to determine where the **Jumper** should be positioned.

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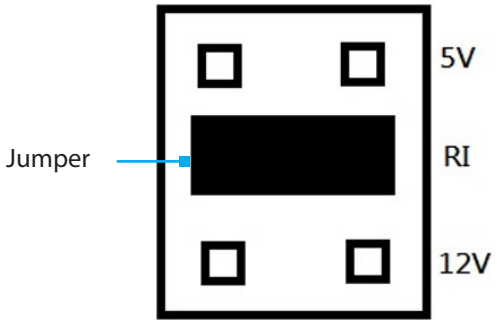
5. Push the **Jumper** straight down and into place.

   Note: *Push the* ***Jumper*** *all the way into position for proper contact.*

6. Repeat these steps to configure the **Jumpers** for **Port 2**, **Port 3**, and **Port 4.**

Figure 1



Hardware Installation

1. Ensure the **Computer Power** is **Off**.
2. Unplug the **Computer Power Cord**.
3. Remove the **Computer Cover**.

   Note: For further information on how to remove the **Computer Cover**, refer to the **Manual** that came with the **Computer**.

4. Remove the **Slot Bracket's Holding Screw**.
5. Remove the corresponding **Full-Height** or **Low-Profile Slot Bracket** from an available **PCIe Slot**.
6. (Reconfigure the **PCI Express Serial Card** for Full-Height or Low-Profile installations) Remove the two **Stand-offs** by twisting each one counterclockwise, using **Needle-Nose Pliers**. Remove the **Bracket**. Slide the new **Bracket** over the **Break-out Cable Port**. Insert the two **Stand-offs** through the **Bracket** and tighten by twisting each one clockwise, using **Needle-Nose Pliers**.
7. To install the **Card**, carefully align the **Card's Bus Connector** with the selected **PCIe Slot** on the **Motherboard.** Push the **Card** down firmly to ensure the **Card** is properly seated into the **PCIe Slot**.
8. (Optional - for power output from the ninth pin of the **Serial Connectors**) Connect the **LP4 Power Connector Cable** from the **Computer's Power Supply** to the **LP4 Power Connector Port** on the **PCI Express Serial Card**.
9. Replace the **Slot Bracket's Holding Screw** to secure the **Card**.
10. Replace the **Computer's Cover** and reconnect the **Power Cord**.
11. Insert the **4-Port DB9 Break-out Cable** into the **Break-out Cable Port** and secure by tightening the integrated **Thumbscrews**.
12. Download the latest **Drivers**.

Driver Installation

You can download the latest **Drivers** from the StarTech.com website: www.startech.com/PEX4S953 - or - www.startech.com/PEX4S953LP.

Navigate to the **Support Page** to locate the **Drivers**. Follow the instructions included with the **Driver Files**.

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:

- 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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Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.
CAN ICES-3 (B)/NMB-3(B)
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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Safety Measures

- If product has an exposed circuit board, do not touch the product under power.

Mesures de sécurité

- Si l'un des circuits imprimés du produit est visible, ne pas touchez le produit lorsqu'il est sous tension.

安全対策

- 製品に露出した状態の回路基盤が含まれる場合、電源が入っている状態で製品に触らないでください。

Misure di sicurezza

- Se il prodotto ha un circuito stampato visibile, non toccare il prodotto quando è acceso.

Säkerhetsåtgärder

- Rör aldrig vid enheter med oskyddade kretskort när strömmen är påslagen.

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