4-Port PCI Express RS232 Serial Card - 16950 UART

Product Diagram (PEX4S953 and PEX4S953LP)
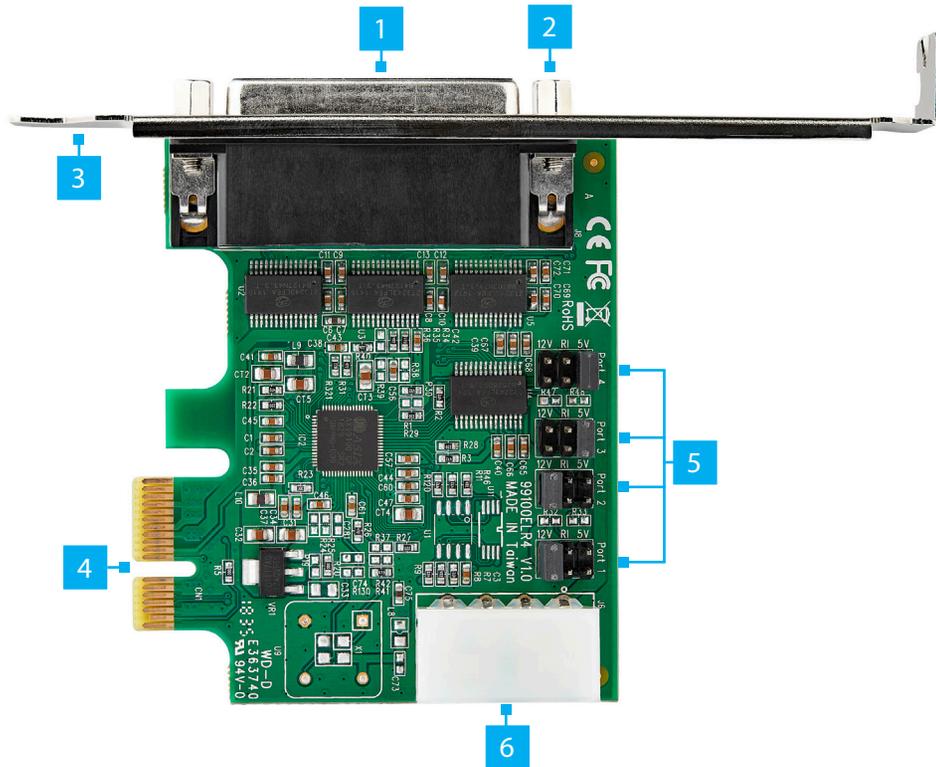
	Port	Function
1	Break-out Cable Port	• Connect the **4-Port DB9 Break-out Cable** to connect up to 4 **Serial Devices**
2	Stand-offs	• Attach the **Bracket** to the **PCI Express Serial Card** • Secure the **4-Port DB9 Break-out Cable** to the **Break-out Cable Port**
3	Bracket	• Attach the **PCI Express 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.

To view manuals, FAQs, videos, drivers, downloads, technical drawings, and more, visit www.startech.com/support.

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

Jumper

5V
RI
12V
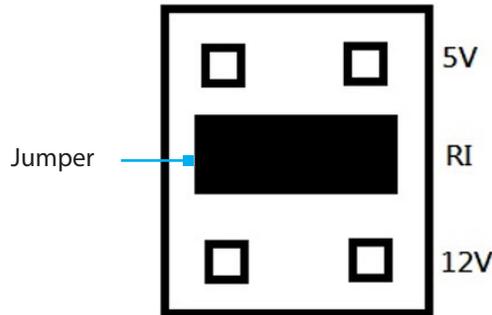
Hardware Installation

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**.