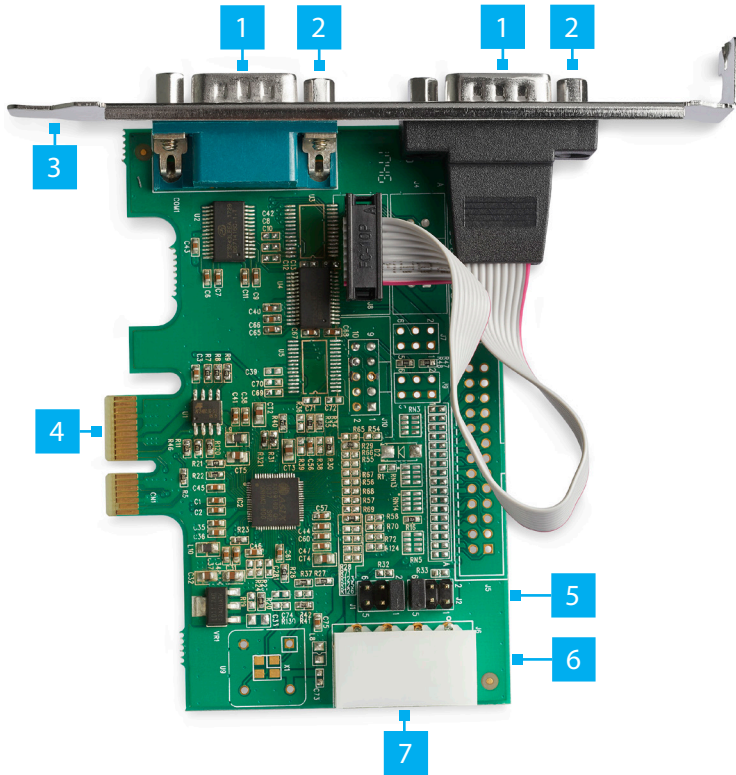


2-Port PCI Express Serial Card with 16950 UART - Low-Profile

Product Diagram (PEX2S953LP)



Port	Function
1	Serial Port • Used to connect Serial Devices
2	Screws • Used to attach the Serial Port to the Bracket • Used to secure a Serial Cable to the Serial Port
3	Bracket • Used to attach the Card to your Computer
4	PCI Express Bus Connector • Used to connect the PCI Express Serial Card to your Computer's Motherboard
5	Jumper • Used to configure Serial Port power settings
6	Printed Circuit Board • Components such as Jumpers are located on this Board
7	LP4 Power Connector • Used to connect a Power Source

Requirements

- PCIe Slot
- Needle-Nose Pliers

For the latest requirements and full manual, please visit www.startech.com/PEX2S953LP.

Installation

WARNING!

PCI Express Serial Cards can be severely damaged by static electricity. Make sure that you are properly grounded before you open your **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.

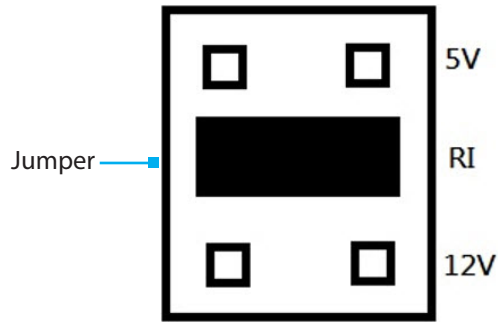
Jumper Configuration

Note: *Jumper configuration is a requirement when connecting Serial Devices that require power through a Serial Port.*

This **Jumper** can be moved into one of three different positions in order to set the power output voltage for the **Serial Ports**. The default setting for the **Jumpers** is **RI**, which is the setting for no power. The **Jumper** can be moved to one of the other two settings for **5V** or **12V** of power. To configure the **Jumper**, complete the following:

1. Locate the **Jumper** for **Port One**. **Port One** is located on the right hand side, labeled as **COM1** on the **Printed Circuit Board**. The **Jumper** is labeled as **J1** on the **Printed Circuit Board**.
2. Carefully remove the **Jumper**. Lift the **Jumper** straight up and off of the **PCI Express Serial Card**.
Note: *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 Port Power Setting**. See *Figure 1* to determine where the **Jumper** should be positioned.
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 **Jumper** for **Port 2**. This **Jumper** will be labeled as **J2** on the **Printed Circuit Board**.

Figure 1



Hardware Installation

Note: This PCI Express Serial Card is specially designed to allow for power output from the ninth pin of the Serial Connector(s) for devices that support power over Serial. This card allows users to set each Serial Port to 5V, 12V, or RI (no power). Users can also choose to draw the necessary power from the Computer's Power Supply by connecting to the LP4 Power Connector.

1. Turn off the power to your **Computer**.
2. Unplug your **Computer's Power Cord**.
3. Remove your **Computer's Cover**.

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

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. Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.

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 harmful 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.

IC Radiation Exposure Statement

This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0.5cm between the radiator and your body.

Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols

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4. Remove the corresponding **Full-Height or Low-Profile Slot Brackets** from an available **PCIe Slot**.
5. (For Full-Height PCIe installations) The **PCI Express Serial Card** is configured out of the box to fit into two **Low-Profile PCIe Slots**. Reconfigure the **PCI Express Serial Card** for Low-Profile PCIe installations by removing the two **Low-Profile Brackets**. Remove the four **Screws** from the **Low-Profile Brackets**, using **Needle-Nose Pliers**. Insert the **Serial Ports** into the **Full-Height Bracket**, with the **Serial Port** that is connected via **Ribbon Cable** on the left-hand side. Insert and fasten all four of the **Screws**, using **Needle-Nose Pliers**.
6. 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**.
7. (Optional): Connect the **LP4 Power Connector Cable** from the **Computer's Power Supply** to the **LP4 Power Connector Port** on the **Card**.
8. Replace the **Slot Bracket's Holding Screw** to secure the **Card**.
9. Replace the **Computer's Cover** and reconnect the **Power Cord**.
10. Download the latest **Drivers**. See [Driver Installation](#) for more details.

Driver Installation

You can download the latest **Drivers** from the StarTech.com website:

www.startech.com/PEX2S953LP

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

Warranty Information

This product is backed by a lifetime warranty.

For further information on product warranty terms and conditions, please refer to www.startech.com/warranty.

Limitation of Liability

In no event shall the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

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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