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

**Product Diagram (PEX1S953LP)**

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

**Requirements**
- PCIe Slot
- Needle-Nose Pliers

For the latest requirements and full manual, please visit www.startech.com/PEX1S953LP.

**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 Port. 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. Determine the power setting that is required for the Serial Port.
2. Locate the Jumper. The Jumper is labeled as J1 on the Printed Circuit Board.
3. 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.*

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.*
Hardware Installation

**Note:** This PCI Express Serial Card is specially designed to allow for power output from the ninth pin of the Serial Connector for devices that support power over Serial. This card allows users to set the 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.
4. Remove the corresponding Full-Height or Low-Profile Slot Bracket 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 a Low-Profile PCIe Slot. Reconfigure the PCI Express Serial Card for Low-Profile PCIe installations by removing the Low-Profile Bracket. Remove the two Screws from the Low-Profile Bracket, using Needle-Nose Pliers. Insert the Serial Port into the Full-Height Bracket. Insert and fasten the two 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/PEX1S953LP](http://www.startech.com/PEX1S953LP)

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

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**Figure 1**

5V  
RI  
12V

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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:

- 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, 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 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.

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**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](http://www.startech.com/warranty).

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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 touchez pas 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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