

## 16-Port Serial Card

PEX16S550LP



\*actual product may vary from photos

**FR:** Guide de l'utilisateur - [fr.startech.com](http://fr.startech.com)

**DE:** Bedienungsanleitung - [de.startech.com](http://de.startech.com)

**ES:** Guía del usuario - [es.startech.com](http://es.startech.com)

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**IT:** Guida per l'uso - [it.startech.com](http://it.startech.com)

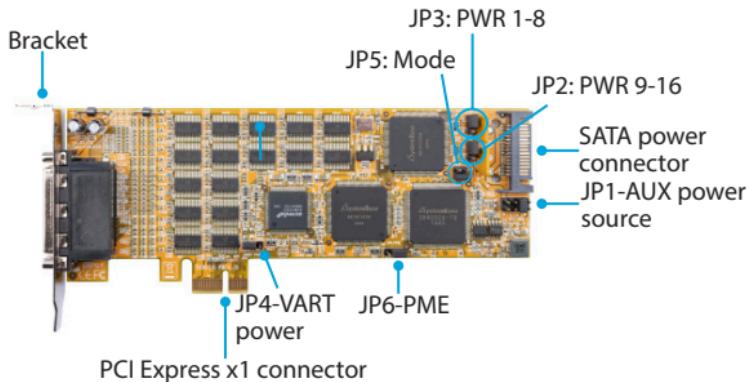
For the latest information, technical specifications, and support for this product, please visit [www.StartTech.com/PEX16S550LP](http://www.StartTech.com/PEX16S550LP)

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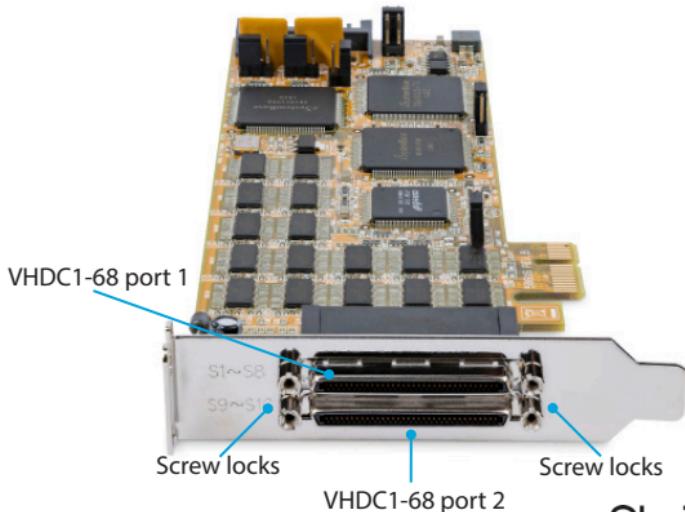
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# Product diagram

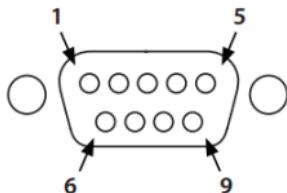
## Top view



## Front view



# DB9 RS232 connector pinout - male



|              |             |
|--------------|-------------|
| <b>Pin 1</b> | DCD         |
| <b>Pin 2</b> | RXD         |
| <b>Pin 3</b> | TXD         |
| <b>Pin 4</b> | DTR         |
| <b>Pin 5</b> | GND         |
| <b>Pin 6</b> | DSR         |
| <b>Pin 7</b> | RTS         |
| <b>Pin 8</b> | CTS         |
| <b>Pin 9</b> | RI or power |

## Introduction

This serial card lets you add 16 RS232 serial ports to your full or small form-factor computer through a PCI Express expansion slot. It's a convenient solution for connecting modern or legacy serial devices to your computer, with support for data transfer rates up to 921.6Kbps. It includes two 8-port breakout cables so you can connect up to 16 serial devices to this single card, even in low-profile computer systems.

## Packaging contents

- 1 x serial card
- 1 x full-profile bracket
- 2 x breakout cables
- 16 x Optional DB9 Connector Hex Nut Pairs

## Requirements

Requirements are subject to change. For the latest requirements, please visit [www.StarTech.com/PEX16S550LP](http://www.StarTech.com/PEX16S550LP)

- A host computer with a PCI Express x1 slot
- RS232 serial cables (DB9)

# About the jumpers

## JP1 – Power selector

This jumper is used to provide pin number nine of the serial port connector(s) with DC5V or DC12V power. There are four sources depending on the jumper's position.

### JP1: Power selector

### Setting

**Internal 5V:** Power source is +5VDC, from the motherboard's PCI Express slot

|      |                                  |                                  |
|------|----------------------------------|----------------------------------|
| 15V  | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| 112V | <input type="radio"/>            | <input type="radio"/>            |
| X12V | <input type="radio"/>            | <input type="radio"/>            |
| X5   | <input type="radio"/>            | <input type="radio"/>            |

**Internal 12V:** Power source is +12VDC, from the motherboard's PCI Express slot

|      |                                  |                                  |
|------|----------------------------------|----------------------------------|
| 15V  | <input type="radio"/>            | <input type="radio"/>            |
| 112V | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| X12V | <input type="radio"/>            | <input type="radio"/>            |
| X5   | <input type="radio"/>            | <input type="radio"/>            |

**External 12V:** Power source is +12VDC, from the Aux power connector

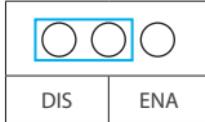
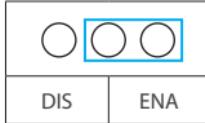
|      |                                  |                                  |
|------|----------------------------------|----------------------------------|
| 15V  | <input type="radio"/>            | <input type="radio"/>            |
| 112V | <input type="radio"/>            | <input type="radio"/>            |
| X12V | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| X5   | <input type="radio"/>            | <input type="radio"/>            |

**External 5V:** Power source is +5VDC, from the Aux power connector

|      |                                  |                                  |
|------|----------------------------------|----------------------------------|
| 15V  | <input type="radio"/>            | <input type="radio"/>            |
| 112V | <input type="radio"/>            | <input type="radio"/>            |
| X12V | <input type="radio"/>            | <input type="radio"/>            |
| X5   | <input checked="" type="radio"/> | <input checked="" type="radio"/> |

## JP3 and JP2 - Serial port power

These two jumpers are used to provide external power to the two breakout cables or the 16 serial ports. JP3 enables or disables power over ports 1 to 8, and JP2 enables or disables power over ports 9 to 16. When enabled, the card connects DC power to pin 9 of the DB9 port(s).

| JP3/JP2: Power selector   | Setting   |
|---|---|
| No power is supplied to pin nine on the serial ports  |  |
| Power is supplied to pin nine on the serial ports and the power source is determined by what is selected at JP3/JP2 |  |

## JP4 – UART power selector

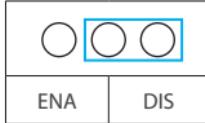
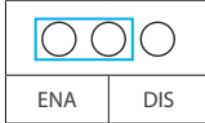
Leave at the default setting (3.3V).

## JP5 - Mode setting

This is for factory test purposes only. The jumper must be fixed at SB.

## JP6 - PME setting

This jumper enables or disables wake from sleep.

| JP6: Power selector | Setting   |
|---------------------|---|
| PME is disabled     | <br>(default) |
| PME is enabled      |              |

# Hardware installation

## Install the full-profile bracket

The serial card can be installed in a low-profile (half-height) or a full-profile computer. The low-profile bracket comes preinstalled on the card, but if you have a standard form factor computer, you can install the full-profile bracket instead.

1. Remove the four screw locks that are securing the two VHDCI-68 ports to the low-profile bracket.
2. Remove the low-profile bracket from the card.
3. Align the full-profile bracket's VHDCI-68 port hole with the card's VHDCI-68 ports.
4. Insert the VHDCI-68 ports into the VHDCI-68 port hole on the full-profile bracket using the four screw locks from step 1.
5. Insert the four screw locks from step 1 and tighten them into place on the full-profile bracket.

## Install the PCIe Card

**Warning!** PCIe cards can be severely damaged by static electricity. If an anti-static strap isn't available, discharge any built-up static electricity by touching a large grounded metal surface for several seconds.

1. Turn off your computer and any devices or peripherals that are connected to it, such as printers or external storage devices.
2. Unplug the power cable from the back of your computer.
3. Disconnect any peripheral devices that are connected to your computer.
4. Remove the cover from your computer case. Consult the documentation that came with your computer for details about how to do this safely.
5. Locate an open PCIe slot and remove the corresponding metal cover plate from the back of your computer case. Consult the documentation that came with your computer for details about how to do this safely. This card works in PCIe slots of x1, x4, x8, or x16 lanes.
6. Gently insert the card into the open PCIe slot and fasten the bracket to the back of the case.

**Note:** If you install the card into a full-profile (small form-factor) desktop system, it might be necessary to replace the preinstalled low-profile bracket with the included full-profile bracket. See "Install the full-profile bracket" for instructions on how to do this.

7. (Optional) Connect a SATA power cable from your computer's power supply to the card's SATA power connector.
8. Place the cover back onto your computer case.
9. Reconnect the power cable to the back of your computer.
10. Reconnect all of the peripheral devices that you disconnected in step 3.
11. Turn on your computer.

## Software installation

### Install the driver

1. Navigate to [www.StarTech.com/PEX16S550LP](http://www.StarTech.com/PEX16S550LP)
2. Click the Drivers & Downloads tab.
3. Under Driver(s), download the Driver to the computer.

### For Windows Systems

1. Extract the contents of the Driver Package by Right Clicking the Driver Folder that was downloaded from the website and select Extract All. Follow the on-screen instructions to finish the Extraction.
2. Browse to the folder created in Step 1.
3. Open the Windows 32bit or Windows 64bit folder.
4. Right-click the Setup file. Click Run as administrator.

**Note** If the Run as administrator option is not available, you could be attempting to run the EXE installer from within the zipped Driver Package. Extract the files using the instructions from Step 1.

5. Follow the on-screen instructions to install the Device Driver. Restart the computer if prompted.

