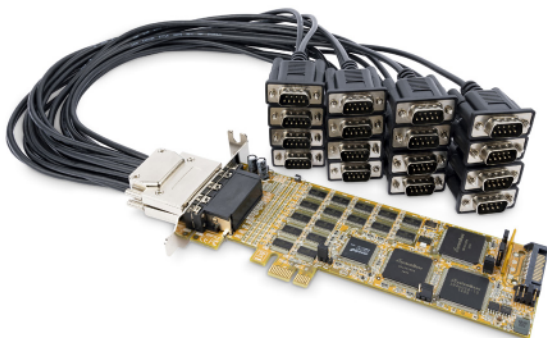# 16-Port Serial Card

PEX16S550LP

*actual product may vary from photos

FR: Guide de l'utilisateur - fr.startech.com
DE: Bedienungsanleitung - de.startech.com
ES: Guía del usuario - es.startech.com
NL: Gebruiksaanwijzing - nl.startech.com
PT: Guia do usuário - pt.startech.com
IT: Guida per l'uso - it.startech.com

For the latest information, technical specifications, and support for
this product, please visit www.StarTech.com/PEX16S550LP

Manual Revision: 07/27/2023

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:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• 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 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.

StarTech.com
Hard-to-find made easy®

Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols
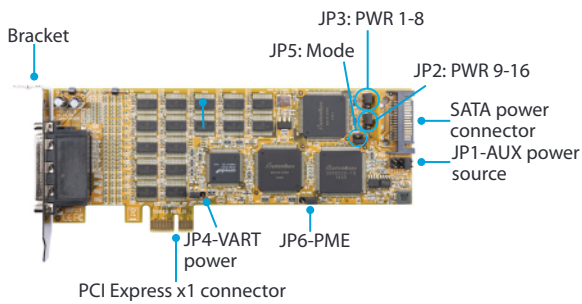
This manual may make reference to trademarks, registered trademarks, and other protected names and/or symbols of third-party companies not related in any way to StarTech.com. Where they occur these references are for illustrative purposes only and do not represent an endorsement of a product or service by StarTech.com, or an endorsement of the product(s) to which this manual applies by the third-party company in question. Regardless of any direct acknowledgement elsewhere in the body of this document, StarTech.com hereby acknowledges that all trademarks, registered trademarks, service marks, and other protected names and/or symbols contained in this manual and related documents are the property of their respective holders.
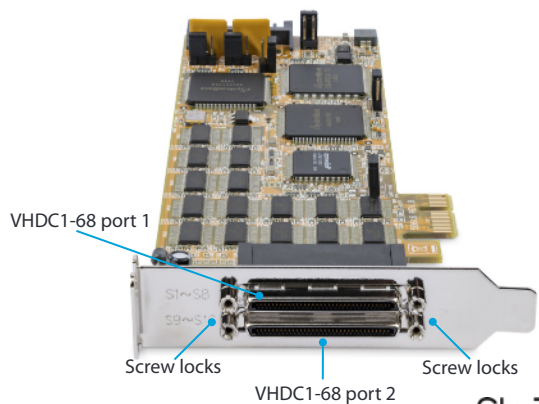
StarTech.com
Hard-to-find made easy®

Table of Contents

StarTech.com

Hard-to-find made easy®

Product diagram

Top view

Bracket
JP5: Mode
JP3: PWR 1-8
JP2: PWR 9-16
SATA power connector
JP1-AUX power source
JP4-VART power
JP6-PME
PCI Express x1 connector

Front view

VHDC1-68 port 1
Screw locks
VHDC1-68 port 2
Screw locks

StarTech.com
Hard-to-find made easy®

DB9 RS232 connector pinout - male
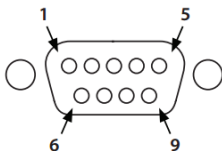
Pin 1	DCD
Pin 2	RXD
Pin 3	TXD
Pin 4	DTR
Pin 5	GND
Pin 6	DSR
Pin 7	RTS
Pin 8	CTS
Pin 9	RI or power

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

• 1 x quick-start guide

• 16 x Optional DB9 Connector Hex Nut Pairs

Requirements

Requirements are subject to change. For the latest requirements, please visit www.StarTech.com/PEX16S550LP

• A host computer with a PCI Express x1 slot

• RS232 serial cables (DB9)

StarTech.com
Hard-to-find made easy®

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 (●●) / I12V / X12V / X5
Internal 12V: Power source is +12VDC, from the motherboard's PCI Express slot	15V / I12V (●●) / X12V / X5
Internal 12V: Power source is +12VDC, from the motherboard's PCI Express slot	15V / I12V / X12V (●●) / X5
Internal 5V: Power source is +5VDC, from the motherboard's PCI Express slot	15V / I12V / X12V / X5 (●●)

StarTech.com
Hard-to-find made easy®

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	DIS / ENA (jumper on DIS side)
Power is supplied to pin nine on the serial ports and the power source is determined by what is selected at JP3/JP2	DIS / ENA (jumper on ENA side)
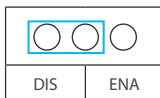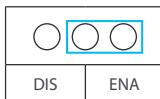
JP4 – UART power selector

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	ENA / DIS (jumper on DIS side)	(default)
PME is enabled	ENA / DIS (jumper on ENA side)	

StarTech.com

Hard-to-find made easy®
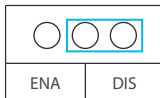
Hardware installation

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.
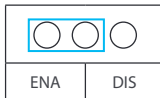
Install the PCIe Card

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.

StarTech.com
Hard-to-find made easy®

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

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.

StarTech.com
Hard-to-find made easy®

Technical support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit **www.startech.com/support** and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit **www.startech.com/downloads**

Warranty information

This product is backed by a two-year warranty.

StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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.

StarTech.com
Hard-to-find made easy®

StarTech.com
Hard-to-find made easy®

Hard-to-find made easy. At StarTech.com, that isn't a slogan. It's a promise.

StarTech.com is your one-stop source for every connectivity part you need. From the latest technology to legacy products — and all the parts that bridge the old and new — we can help you find the parts that connect your solutions.

We make it easy to locate the parts, and we quickly deliver them wherever they need to go. Just talk to one of our tech advisors or visit our website. You'll be connected to the products you need in no time.

Visit www.startech.com for complete information on all StarTech.com products and to access exclusive resources and time-saving tools.

StarTech.com is an ISO 9001 registered manufacturer of connectivity and technology parts since 1985 with operations around the world.

Reviews

Share your experiences using StarTech.com products, including product applications and setup, what you love about the products, and areas for improvement.

StarTech.com Ltd.	**StarTech.com LLP**	**StarTech.com Ltd.**	**StarTech.com Ltd.**
45 Artisans Crescent	4490 South Hamilton Road	Unit B, Pinnacle 15	Siriusdreef 17-27
London, Ontario	Groveport, Ohio	Gowerton Road Brackmills,	2132 WT Hoofddorp
N5V 5E9	43125	Northampton	The Netherlands
Canada	U.S.A.	NN4 7BW	
		United Kingdom	

FR: fr.startech.com

ES: es.startech.com

IT: it.startech.com

DE: de.startech.com

NL: nl.startech.com

JP: jp.startech.com

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