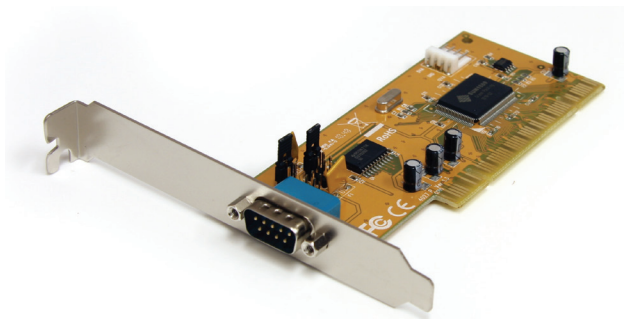


1 Port PCI RS232 Powered Serial Adapter Card

PCI1S650PW



*actual product may vary from photos

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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:

- 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.

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Introduction

The PCI1S650PW 1 Port PCI RS232 Powered Serial Adapter Card offers an easy way to add self-powered serial devices to your computer, POS solution, or manufacturing application.

The adapter provides a high-performance serial port that can be configured to deliver 5 or 12 volts of power to compatible devices, and for additional flexibility, this card can be used in PCI (5 volt) or PCI-X (3.3 volt) expansion slots and supports both Windows® (including 64-bit editions) and Linux environments.

Backed by a StarTech.com lifetime warranty and free lifetime technical support.

Packaging Contents

- 1x PCI1S650PW serial card
- 1x Low-profile bracket
- 1x Installation CD
- 1x Instruction Manual

System Requirements

- IBM-compatible computer
- Available PCI or PCI-X slot (full size or low profile)
- Acomputer running Windows 2003/XP/Vista/7(32 & 64-bit)
- Available PCI or PCI-X slot (standard or low-profile)
- CD-ROM or other optical drive (for driver software installation)

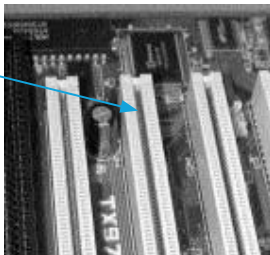
WARNING! PCI cards, like all computer equipment, can be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case or touching your PCI card. StarTech.com recommends that you wear an anti-static strap when installing any computer component. If an anti-static strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds. Also be careful to handle the PCI card by its edges and not the gold connectors.

Installation

This section will guide you through the installation of your PCI card and the related software. Please read through the instructions carefully and complete each step in the order listed.

Installing the Card

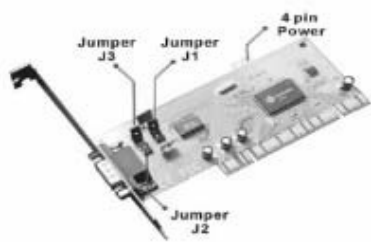
PCI
Slots



1. Make sure that your system is unplugged and you are grounded.
2. Remove the cover of your system (see your computer's user manual for details, if necessary) and gently turn your computer onto its side.
3. (a) Locate an empty PCI or PCI-X slot (usually white in color) and remove the metal plate that covers the rear bracket. If present, PCI-X slots will be slightly longer than a standard PCI slot. You may need a Phillips screwdriver to perform this step. Retain this screw! You will need it to secure the card later.

(b) If you are installing the card in a low-profile slot, remove the standard bracket by removing the screws on the underside of the card. Place the low-profile bracket onto the card and align the holes in the card with those in the bracket. Ensure the orientation of the new bracket matches the one you removed. Re-secure the bracket with the screws. Do not over-tighten.
4. Gently insert the card into the empty slot, making sure it is firmly seated.
5. Secure the card in place using the screw you removed in Step 3.
6. If you wish to use this card to power compatible external serial peripherals over a data connection, you should also connect a power cable from your power supply to the 4-pin SP4 power connector on the outer edge of the card, marked J7. The SP4 power connector is the same type of power connector commonly used to power 3.5" floppy disk drives (see example of the card connector at right).
7. Put your computer case back on.













Configuring the Jumpers

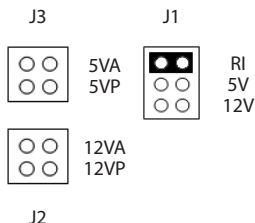


The card uses jumpers to set internal and external power voltages, and to configure which serial ports will receive 5v, 12v, or RI signal (unpowered) through the 9th pin.

J1: Sets voltage output type to devices on the DB9 port

J2, J3: Sets internal (bus) and external (SP4 connector) voltage

| | Internal Power | | External Power | |
|-----|--|---|--|---|
| 5V | J3 | J1 | J3 | J1 |
| |  5VA 5VP |  RI 5V 12V |  5VA 5VP |  RI 5V 12V |
| |  12VA 12VP | |  12VA 12VP | |
| | J2 | | J2 | |
| 12V | J3 | J1 | J3 | J1 |
| |  5VA 5VP |  RI 5V 12V |  5VA 5VP |  RI 5V 12V |
| |  12VA 12VP | |  12VA 12VP | |
| | J2 | | J2 | |



WARNING! Failure to observe these warnings could cause damage to the serial card, computer, and peripherals. Do not set the card to draw both internal and external power at the same time. Ensure jumper caps are placed vertically in line with the markings on the board, not “across” settings.

Installing the Drivers

If you lose your driver disk, these drivers are available as a free download from our website. Visit www.startech.com and click on the Downloads link for more information.

Windows 2000/XP/2003 (includes 64-bit editions)

1. Windows will launch the Add New Hardware Wizard. Click Next.
2. Choose the Search for a suitable driver... option and click Next.
3. Check only the CD-ROM drives option. Ensure the installation disk is inserted in the floppy drive. Click Next..
4. Windows will display a message stating that "Windows has found a driver for this device". Click Next. (If you are presented with multiple choices for the driver, choose the driver file in the \IO\PCI IO\WHQL Driver for 2K_XP_2003 folder.) Choose Yes or Continue Anyway if you are warned that the driver file has not been digitally signed.
5. Windows will display a message that states "Windows has finished installing software for this device". Click Finish.
6. Windows will continue to detect and install any remaining new devices. If the Add New Hardware Wizard is launched again, repeat steps 1 through 5 from above.

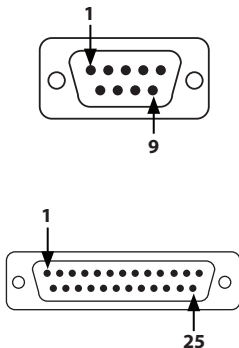
Other Operating Systems

For installation of the serial card's software under other operating systems (Windows NT DOS/Windows 3.1, Linux etc.) please consult the documentation contained in the appropriate folder for your OS located inside the \IO\PCI IO\ directory on the installation CD.

Verifying Your Installation

Windows 2000/XP/2003

1. Go to Start > Settings > Control Panel.
2. Double click System.
3. Click the Hardware tab and choose Device Manager.
4. If the card does not appear with a red x or yellow exclamation point (!) next to it, Windows has not detected a problem with the installation and the card should function normally.



| Pin | DB9 Assignment | DB25 Assignment |
|-----|----------------|-----------------|
| 1 | DCD | NC |
| 2 | RD | TD |
| 3 | TD | RD |
| 4 | DTR | RTS |
| 5 | GROUND | CTS |
| 6 | DSR | DSR |
| 7 | RTS | GROUND |
| 8 | CTS | CD |
| 9 | RI/5V/12V | N/A |
| 20 | N/A | DTR |
| 22 | N/A | RI/5V/12V |

*Any unshown pins are not used

Specifications

| | |
|--------------------------------|--|
| Card Interface | 32-bit PCI (5v), 64-bit PCI-X (3.3v) |
| FIFO Size | 128 KBytes software, 32 bytes hardware |
| Max. Data Transfer Rate | 920 Kbits/sec., supports both full and half duplex |
| Connectors | 1 x proprietary 44-pin (female) to dongle 4 x DB9 (male) to peripherals 1 x internal SP4 (male) power connector |
| Signal Types Supported | RS-232 Serial TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND (see below for pinout) |
| Power to Peripherals | 5 or 12 volts to peripheral supported over DB9 connection |
| OS Support | Windows 2003 Server, XP, 2000, Vista, 7 (32 & 64-bit) Driver support included for 64-bit editions of Windows 2003 and 2000 Server.) |
| Operating Tolerances | 32°~135°F (0°~57°C), 5~95% rel. humidity |
| UART Chipset | Sunix SUN1889 (16C650 compliant) |
| Certifications | Regulatory: FCC Class B, CE Other: Microsoft WHQL |

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.

In addition, 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.

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